



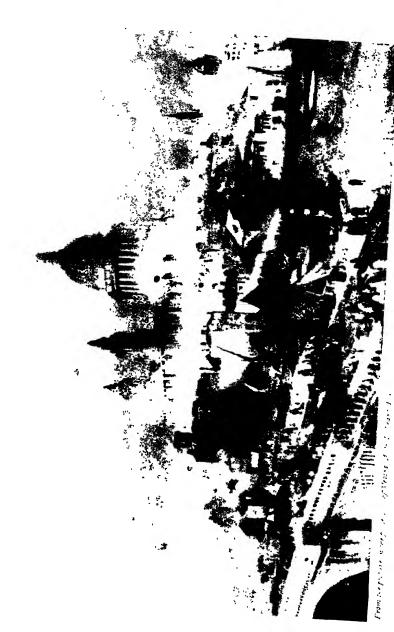




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INTRODUCTION

With the present edition, the total issue of PEARS' CYCLOPÆDIA is brought up to 1,300,000 copies, representing a popularity exceeding all previous records. Thirteen hundred thousand copies! It is difficult to conceive what such a vast aggregation of books represents in actual This single volume consists of 1.070 bages. material of production. 1,300,000 copies weigh over 910 tons, and would require more than 40 miles of book shelving to accommodate them. Taking the pages themselves and laying them down singly, end to end, we should get a length of 75,130 miles, or about three times round the world.

Two main ideas have been kept in view in getting together this work -the providing in a concise yet comprehensive form, of not only the pith and substance of the information usually contained in a good Cyclopedia of many volumes, but the inclusion of a large number of what may be called "everyday subjects," such as people are likely to require ready information upon at any moment.

The various articles are treated with as much fullness as space allows. In every instance the essential and latest facts are given; thus EACH EDITION IS PRACTICALLY A NEW WORK, supplying in a handy form a reliable book of reference dealing with all manner of subjects, serviceable alike to the man of business, the professional man, the student, the housewife -and of value to anybody and everybody.

A Chronicle of the Great War is now added; and, in their proper places in the volume, the chief changes and developments resulting from the War are noted. These alterations are spread over the General Information, Prominent People, and Gazetteer sections, and represent a material addition to the work.

That this book, with its 1,070 closely but clearly printed pages, constitutes by far the biggest shillingsworth of cyclopædic matter ever offered to the public cannot, we think, be gainsaid.

We are deeply grateful for the patronage accorded to the volume; its popularity is our highest reward.



H.R.H. THE PRINCE OF WALES. AS KNIGHT OF THE GARTER.

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Pears' New Dictionary of the English Language

· EXPLANATIONS.

Arrangement.—The words are given in alphabetical order.

Spelling.—The most current form of English spelling is adopted.

Meanings.—The most usual meaning is given first, with variants following where necessary.

Pronunciation.—The pronunciation is given after each word, the different vowel-sounds being indicated by marks over them. Thus—

```
a pronounced as in day, mate.

a is pronounced as in art, fan, fad.
a is pronounced as in arm, father, half.
b is pronounced as in eve, me.
b is pronounced as in elk, mend.
b is pronounced as in where, there.
b is pronounced as in where, there.
b is pronounced as in ice, tide.
b is pronounced as in pin, pit.
b is pronounced as in machine.
```

```
6 is pronounced as in old, bold.
6 is pronounced as in old, pot.
8 is pronounced as in storm, stork.
10 is pronounced as in mute, tube.
11 is pronounced as in up, tub.
12 is pronounced as in burn, urge.
```

th soft as in forth.

Consonant pronunciations are for the most part unvarying.

Vowel sound-signs are repeated for convenience at the bottom of each page.

The pronunciation of short simple words was not deemed necessary to be given.

Accent.—The accented syllable of a word is marked thus: ' on the pronunciation spelling.

Grammatical Glassification.—Immediately after each word its grammatical classification is indicated by the following abbreviations:—

adj....... adjective.
adv. adverb.
con. conjunction.
excl. exclamation.

n. noun,
prep. preposition,
pron. pronoun,
v. verb.

A

Abacus, ab'a.kus, m. a counting board.
Abadon, a.had'don, n. the destroying angel.
Abaft, adv. the stern part of a ship.
Abandon, a.han'dun, w. to forsake.
Abandoned, a.ban'dund, adv. deserted; wicked.
Abase, abas', v. to cast down; to humiliate.
Abasement, a.bas'ment, m. humiliation.
Abash, a-bash', v. to cause shame.
Abate, a.bas', v. to cause shame.
Abate, a.bas', v. to lessen.
Abates, a.bat', v. to lessen.
Abates, a.bat', m. p. deficient of filled trees.
Abaton, a.bat-war, m. public slaughter house.
Abb, m. yam for warp.
Abbess, abb'ess, m. the head of a convent.
Abbot, ab'ut, m. the head of an abbey.
Abduct, ab-di-kā'shun, m. renouncing office.
Abdomen, ab-di'men, m. lower part of belly.
Abduct, ab-dukt', v. to carry off by force.
Abducton, ab-di-kā'shun, m. renouncing office.
Abducton, ab-di-kā'shun, m. sarqing off.
Abele, a-bel', m. the white poplar tree.
Aberration, ab-di-ka'nun, m. wandering from right.
Apet, a-bet', v. to be accessory to.
Abetton, a-bêt'or, m. an encourager.
Abeyance, a-bâ'ans, m. held in suspense.

Abide, a-bid', v to want for : to dwell Abies, a-bid', v to want for : to dwell Abies, a-bid-ex', n. the silver fir.
Ability, a-bid':-if, n. skill, power.
Abigenesis, abi-o-bur's-us, n. spontaneous genera-Abigenesis, abi-o-lekt'ness, n. low condition.
[tion. Abiute, a-bid's-hun, n. westing away by water action. Abuten, a-bid's-hun, n. westing.
Abies, a-bid's-hun, n. westing.
Abies, a-bid's-hun, n. westing.
Aboutiah, ab-ol's-hi, v. to do away with.
Abolitha, ab-ol's-hi, v. to do away with.
Aboninable, ab-om'in-abi, ad/, hateful.
Abortion, ab-or'-shun, n. premature birth. [habitants, ab-or'-shun, n. premat

day; at; arm; eve; elk; there; ice; pin; machine; bold; pot; storm; mute; tub; burn. .

```
Abacind, ab-sind', v. to cut off.
Abscission, ab-sind', v. to cut off.
Abscission, ab-sind', v. to cuting off.
Abscond, ab-shoft, v. to secretly escape.
AbscRee, ab'-ens, v. ac/, not present; inattention.
Absent, ab's ens, v. ac/, not present; inattention.
Absent, ab's ens, v. ac/, not present; inattention.
Absentee, ab-sont-e', v. one who is absent.
Absinthe, ab'sent, v. a viprit with wormwood flavour.
Absolute, ab'sent, v. ac, v. 
          Acenthus, a-kan'thus, s. a prickly plant;
                                   architectural ornament.
        arcnitectural ornament.
Acauleacent, ak.aw.les' ent, arlf, without stalk.
Acceded, ak.scd', v. to agree.
Accelerate, ak.scd' v. to bindle.
Acceded, ak.scd', v. to kindle.
Accend, ak.scnd', v. to kindle.
Accent, ak.scnd v. to complass.
Accentuation, ak.sent-u-ā'shun, v. marking accents.
          Accept, ak-sept', v. to receive or to agree to.
Acceptable, ak-sept'a-bl, adv. agreeable.
        Acceptance, ak-sept and, my. sgreament: an accepted Access, ak'ses, n. right of approach; increase. [bill. Accessory, ak-ses'n. add. additional; aiding. Accessory, ak-ses'nin, n. succeeding to; increase.
          Accident, ak'sid-ent, n. a chance occurrence.
Accident, ak'sid-ent, n. a chance occurrence.
Accidentation, ak-lam-a'shun, n. shout of approval.
Accilmatise, ak-l'Y mat-iz, v. to become seasoned to a
foreign climate.
          Accilvity, k-in/k-it, n, rising ground.
Accommodate, ak-om/\delta-dat, v, to entertain; to adapt.
Accommodating, ak-om/\delta-da-ting, a' jobliging.
Accompanist, ak0m'pan-ist, n, that which goes along
                                   with; instrumental aid to vocal solo.
      with; instrumental aid to vocal solo.

Accompany, ak-un'pan-t, v. tog ownth.

Accomplice, ak oun'pils, n. companion in crime.

Accomplish, ak-kom'pilsh, v to complete.

Accomplishment, n. completion; special ability.

Accompt, ak-kom't, n. older form of word account.

Accord, ak-kor't, v. in agreement.

Accord, ak-kor'di-on, n. a keyed bellows instru-

Account, ak-kow't, v. to reckon; n. statement.

Account, ak-kown't, v. to reckon; n. statement.

Account, ak-kown't, v. to reckon; n. statement.
          Accountable, ak-kownt'a-bl, adj. responsible.
        Accountant, ak-kownt'ant, st. one skulled in accounts.
Accounts, ak-koo'ter, v. to equip.
    Accountre, ak-kno'ter, v. to equip.
Accountrements, ak-koo'ter-inents, n. war equipments.
Accoratin, ak-kred'it, v. to authorise.
Accoratio, ak-kred'it, v. to authorise.
Accoratio, ak-kred'it, v. to authorise.
Accountre, ak-krod', v. being added.
Accountlate, ak-kim'di-si, v. to pile together.
Accountre, ak-kin'di-si, v. to pile together.
Accurate, ak-kin'di-si, n. precise, correct.
Accurate, ak-kin'di-si, n. precise, correct.
Accurate, ak-kin'di-si, v. to blame: to charge
Accustom, ak-kin'di-w. v. to render familiar.
Acc, sa, n., the one sign on dice, cards, etc.
Accustom, sa-sef-alies, adj. headless.
Accritity, as-ër-bi-ti, n. bitterness.
```

Aceacint, is-ëv'unt, adj. acid.
Acettify, as-ët'ift, v. to turn sour.
Acettopathy, a-ct-op'ä-eli, n. treatment by acetic acid.
Acetons, Acetic, adj. a quality of sourness.
Ache, äk. n. continued pain.
Achievement, a-che'vment, n. something accomAchievement, a-che'vment, n. something accom-Achromatic, ak-no-mat'fk, adf. colourless. [plished. Acid, as'fd, adf. sour. Acidify, as-Id-If-I, v. to make acid. [strength of acids Acidimeter, as-Id-im'it-er, v. instrument for taking Acidulate, as-Id-id-lik, v. to turn slightly sour. Aciform, as'f-form, adf, needle-shaped. Acknowledgment, ak 'Bol'ej-ment, v. admission; con-Acme, ak'me, w. the supreme point. [fession. Acme ak'nd w. shoped.] Acknowledgment, ak moetile-snaped.

Acknowledgment, ak mol'ci-ment, n. admission; conAcme, ak'nué, n. the supreme point.

Acne, ak'nué, n. the supreme point.

Acong, ak'nué, n. the supreme point.

Acong, ak'nué, n. the supreme point.

Acong, ak'nué, n. pimple.

Acolyte, ak'o'lit, n. church attendant.

Acong, ak'o'lit, n. thurch attendant.

Acong, ak'o'nt, n. seed of the oak.

Acoustic, ak'o'nt, n. seed of the oak.

Acoustic, ak-war'lits, n. science of sounds,

Acquisit, ak-war'l, v. to inform.

Acquisit, ak-war'lits, n. science of sounds,

Acquisit, ak-war'lits, n. science of sounds,

Acquisit, ak-war'lits, n. science of sounds,

Acquisit, ak-war'lits, to agree to.

Acquisit, ak-war'lits, to agree to.

Acquisit, ak-war'lits, n. judicial release.

Acquittance, ak-war'nits, according to acquire.

Acquisit, ak-war'lits, n. judicial release.

Acquittance, ak-war'nits, secret; select. [thought.

Acrimony, ak-rimdin, n. bitterness of speech or

Acroamatic, ak-ro-i-mar'lits, secret; select. [thought.

Acronstic, ak-ro-i-mar'lit Actuary, akr "ū-ar", m. c-erk; insurance officer.

Actuate, akr "ū-ār, v. to mfuence.

Acunen, akr "ū-ār, v. to mfuence.

Acunen, akr "men, m. quick perception.

Acuminate, akr "mh. ār, ar'r, taper pointed.

Acupressure, akr "ū-pressh "ūr, n. closing bleeding artery

Acute, akr "ūr, ar'r, keen.

[with needle.

Adage, ar'd; n. proverb.

Adage, ar'd; n. proverb.

Adamantine, ad-a-man'tin. ar'r hard as damant.

Adamin. adam'tin. ar'r bard as damant.

Adamin. adam'tin. ar'r bard as damant. Adamic, ad-a-man'tin, ad' liard as adamant, Adamic, a-dem'fk, ad', pertaining to Adam. Adapt, ad-apt', to fit. Adaptable, ad, that may be adapted. Add, adv. to put one thing to another. Addendum, ad-dem'dum, plural of addendum. Addendum, ad-dem'dum, n. something to be added. Addendum, ad-den'dum, m. something to be added. Adder, m. venomous snake.
Addicted, ad-lkt'ed, at'p devoted to. Addition, ad-lsh'un, m. the act of adding. Addition, ad-lsh'un, m. the act of adding. Addition, ad-lsh'un, m. the act of adding. Add'le-headed, adj. putrid: empty. Add'le-headed, adj. empty-brained. Address, ad-dress, v. to speak or write to. Adduce, ad-dr's, v. to quote. Adductible, ad-dr's', v. to speak or write to. Addengtion, ad-em'shun, m. revocation. [ward. Addengtion, ad-em'shun, m. revocation. Adept, ad-epf, m. a proficient. Address, ad'l-kwaf, adj. sufficient. Address, ad'l-kwaf, adj. sufficient to; m. a follower. Address, ad. hb's', v. to spely to; to use. Addibit, ad-hb's', v. to apply to; to use. Addipocers, ad-l-po-set', m. latty substance from animal Adipocers, ad-l-po-set', m. latty substance from animal Adipocer, adi-po-sēr', n. fatty substance from animal Adipoce, adi-po-sēr', n. fatty substance from animal Adipoce, ad'i-pōz, adj. fatty.
Adit, fd'it, ss. horizontal opening into mine.
Adjacent, ad-j8'sent, adj. near.

Aerodrome, a'-ĕr-ŏ-drōm, st. a machine-flying course.

```
of Christ,
Adventtious, advent-ish'us, adj. additional; casual.
Adventual, advent'ū-al, adj. concerning Advent.
Adventure, advent'ūr, n. risk; enterprise; surprising incident.

[other adverb.]
        mcident.
Adverta., n. a word modifying a verb, adjective, or Adversary, ad'ver-ser-i, n. an enemy or opponent.
Adversative, ad-vers'a-tiv, adj. contrary: opposed.
Adverse, ad'vers'i-t, n. misfortune.
Advertive, to refer to.
Advertive, ad vert'en-si, n. attention to.
Advertive, ad'ver-iz. n. to publicly patify
      Adverties, ad. vert'en-si, n. attention to.
Adverties, ad. vert'iz, v. to publicly notify.
Advertisement, ad-vert'is-ment, n. public notification.
Advertisement, ad-vert'is-ment, n. public notification.
Adverties, ad-vert'iz er, one who advertises.
Advise, ad-viz', n. counsel; notice.
Advise, ad-viz', n. to give counsel to.
Advise, ad-viz', ad-viz', adv. deliberately.
Advocact, ad-vo-kiz, n. one who pleads for.
Advocach, ad-vo-kiz, n. acred part of temple or church.
Adz or Adze, n. a carpenter's tool.
Adit or Adze, n. a carpenter's tool.
Adit or Adze, n. a carpenter's tool.
Adit of Advocach, n. acred part of temple or church.
Adz or Adze, n. a carpenter's tool.
Adit or Adze, n. a carpenter's tool.
Adjt n. n. on and official having control of public huildings, markets, etc.

Agis, e. jis, n. shield; protection.
        Mgis, markets, etc.

Mgis, etc., s. shield; protection.

Mgrotat, e'grō-tit, s. certificate of illness.

Molan, eō-li-an, agi, acted on by the wind.

Aerate, ē-e-ē-t', s. to mix with air.

Aerial, ē-frail, s. pertaining to the air.

Aerial, ē-frail, s. nest of bird of prey.

Aeriform, &'er-form, agi, of the nature of aly or gas.

Aerify, â'er-fi-i, s. to combine or fill with air.
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Aerolite, ar-o-lit, m. neteoric stone.
Aeromancy, 5-er-on'and, n. divination by air. [meni. Aeromancy, 5-er-on'and, n. divination by air. [meni. Aeromancy, 5-er-on'and, n. science of air measure. Aeromant, Rero-onawt, n. professional billionist. Aeromant, Rero-onawt, n. professional billionist.
             Aeronautics, &-ero-nawtiks, n. the science of air navigation.

Aeroplane, a'ér-ō-plân, n. a flying machine with plane Aerostatics, &-er-o-statiks, n. the science of elastic actions of the science of taste and beauty. Affaile, a'ffi-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'ff-ble, a'f
             Affidavit, af-fi-dá'vit, s. declaration on oath. Affiliate, af-fil'ee-åt, v. to adopt. Affiliate, af-fil'ee-åt, v. to adopt. Affirm, af-fin'fi-t, s. kinship; attraction. Affirm, af-fin'fi, v. to assert positively; to declare. Affirmation, a-firm-åtshun, sv. what is affirmed. Affix, af-fik's, v. to add; af'fik's, w. word ending. Affiation, af-fik'shun, s. breathing upon. Affiation, af-fik'shun, s. preathing upon.
    Afflation, af-flat'shun, m. breathing upon.
Afflatins, af-flat'tin, m. inspiration.
Afflict, af-flat'tin, m. inspiration.
Afflict, af-flat'tin, m. inspiration.
Afflict, af-flat', m. to cause pain or grief.
Afflict, af flox, m. a flowing to.
Afford, af-flox', m. to yield; to be able to bear cost.
Afforest, af-for'-cst, n. to set apart as forest land.
Affranchise, af-fran'shit, n. to remancipate; to free.
Affran, af-frap', n. to strike.
Affran, af-frap', n. to strike.
Affran, af-frat', n. a fraviolous onset.
Affright, af-fret', n. to freshten.
Affront, af-freth', n. at of pouring on or sprinklin.
Affright, affrit. v. to frighten.

Affront, affront, at to meet face to face.
Affusion, affuishin, n. act of pouring on or sprinkling.
Affy, affit, v. to pledge; to betroth.
Affield, a-feld', adj. on the field.
Affame, a-fild', adj. on the field.
Affame, affain, adj. floating; at sea.
Afoot, a-foot', adv. on foot; stirring.
Afoots, afoot', adv. on foot; stirring.
Afraid, a-for'sed, adj. before mentioned.
Afraid, a-faid', adj. in fear.
Aft, adj. stern of a vessel; behind.
Aftermost, aff'er-most, atj', bindinost.
Aftermost, aff'er-most, atj', bindinost.
Aftermost, aff'er-most, atj', bindinost.
Aftermost, aff'er-most, atj', bindinost.
Afterspiece, aff'er-pēs, n. piece given after a play.
Afterthought, after-/hawt, n. later reflection.
After-wice, aff'er-pēs, arpice, afficer-pēs, afficer-pēs
             Agglomerate, ag-glom'er-ët, v. to mass together.
Agglutinate, ag-gloo'-th-ët, v. to make adhere.
Aggrandize, ag-gran-diz, v. to exalt; to enlarge in
        power.
Aggrate, ag-grat', v. to please.
Aggrate, ag-gravat, v. to please.
Aggrayate, ag-gravat, v. to provoke; to make worse.
Aggregate, ag-gree, siv, adj, making the first attack.
Aggressave, ag-gree', v. to pain.
Aggressay, ag-gree', v. to pain.
Aggrate, ag-gree', v. to pain.
Aggrate, ag-gree', v. to pain.
Aglast, ag-hast', adj, horrified.
Agile, dj'il, adj, quick, nimble.
Agio, dj'il, n. the difference between nominal andgeness, and and aggree aggrate, v. to pain.
Agine, dj'il, n. to gree cartle for distress a rubble.
Agist, July', v. to skee cartle for distress a rubble.
    real inoticy.

Agist, a jat', v. to take cattle for debt; u. a public Agitate, a j-t-tit', v. to disturb; to discuss. Agitate, a j-t-tit', v. to disturb; to discuss. Agitator aj-t-tit'or, none who excites public attendiglet, a'glet, u. t.g. lace, or string.

Agiow, a-gio, adj. warm, glowing.
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(tion.

dāy : ăt ; ârm ; eve ; elk ; thêre ; īce ; pin ; machine ; bold ; pot ; stôrm ; mute ; tub ; bûrn. .

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Agnail, agʻnāl, s. a whitlow.
Agnate, agʻnāt, sdy. related on the paternal side.
Agnise, agʻniz, w , to acknowledge.
Agno men, w, an additional surname.
                                 Agnormen, n. an additional surname.

Agnostic, n. con who believes only in
Agog, agog, add, alert. [material evidences.
Agony, ago, onl, n. extreme pain.
Agrarian, ag-nt'n-an, add, connected with land.
Agrarianam, ag-nt'n-an-izm, n. movement for equal
edivision of lands.
Agree, agrf, n. to concur; to be of the same mind.
Agreeable, agrid abl, adf, pleasant; favourable to.
Agriculture, ag-nt-kult'ür, n. the art of land cultivation.
Agriculture.
                  Agriculturist, ag-ri-kult'ūrist, s. one who follows agriculture.

Agrimony, ag'ri-mun-i, s. a plant of the rose order.

Aground, agrownd', adj. stranded.

Ague, ā'gu, s. a shivering fever.

Abead, ā-bēd', adv. in advance.

Aid, ād, v. to assist.

Aide-de-camp, ād'dh-kong, an officer who conveys a Aigrette, ā'gret, s. a small heron. Igeneral's orders.

Ailment, ā'lment, s. affiction, disease.

Aim, ār, w. the atmosphere; the fuld we breathe.

Air ar, s. the atmosphere; the fuld we breathe.

Air jump, s. an apparatus for pumping the air from Airy, ār', adj. open to the air; light; unsubstantial.

Aise, Il, lateral division of any part of a church;

Aik, s. a small island. part so for hurch;

Aik, s. a small island. part so for hurch;

Alam, a-la'n', adj. related.

Alabaster, al-a-hay'ter, s., a kind of gypsum.

Alacrity, al-a'rit-8, n. readiness; willingness.

A-la-mode, a-la-mod', adv. in the fashion.

Alarm, a-la'rim, s. notice of danger; surprise and fear.

Alarm, a-la'rim, s. notice of danger; surprise and fear.

Alarm, a-la'rim, s. notice of danger; surprise and fear.

Alarms, a-la'rim's, notice of danger; surprise and fear.

Alarms, a-la'rim's, s, one who causes alarm.
                                                                          agriculture
                      Alarmist, al-arm'ist, is one who causes alarm.

Alb. n. a clerical vestment.

Albeit, awl-be'it, adv. notwithstanding.

Albino, al-bi'no, m. human being or animal with white
                      Albino, al-bi'no, n. human being or animal with white skin and hair and pink eyes.

Album, al'bum, n. white tablet used by the Romans; book for extracts, etc.

Albumen, al-bi'men, n. white of eggs. [the bark. Alburnum, al-bi'men, n. white of eggs. [the bark. Alburnum, al-bi'men, n. white of eggs.

Alburnum, al-bi'nen, n. the white parts of wood below Alcate, al-ki'fk, pertaining to the poet Alcatus. Alchemy, al-ki'nin, n. occult chemistry Alcohol, al'ki-nin, n. occult chemistry Alcohol, al'ki-nin, n. the Koran.

Alcoran, al-ki'ran, n. the Koran.

Alcore, al'ko'r, n. a recess.

Alder, wy'der, n. a tree of the birch genus.
Alcoraa, al-ki'ran, n. the Koran.
Alcora, al-ki'ran, n. the Koran.
Alcora, al-ko'ran, n. the Koran.
Alcora, al'ko', n. a recess.
Alder, aw'der, n. a tree of the birch genus.
Aldernan, aw'der-nan, n. a civic dignitary.
Ale, il, n. a malt beverage.
Alembic, al-em'bik, n. ancient vessel used in distilla-
Alexandrine, al-ex-an'dinn, n. rhymed verse in lines
of twelve syllables.
Alert, al-ir', an', ready, watchful.
Alfalfa, al'alfa, a species of grass.
Algerine, al'el-ene, n. arithmetic by symbols.
Aliena, a'l-ins, and otherwise; n. an assumed name.
Alith, al'I-bi, n. plea that a person was elsewhere
than in place named.
Aliena, a'l-ins, act, to toransfer; adj, estranged.
Alight, alit', v. to descend from.
Alight, alit', v. to descend from.
Aligna, a'l-in, al', n. money allowed for support of
Aligna, a'l-in, al', n. money allowed for support of
Aligna, a'l-in, al', n. money allowed for support of
Aligna, a'l-in, al', such part of a n@mber that
will not divide it without a remainder.
Al'kahest, n. the universal solvent of alchemy.
Alizali, a'l'ka-lin, a. as unsetance which neutralises and
combines with an acid.
Allagna, a'l'a', v. to lighten, relieve, or calm.
Allaga, a'l'a', v. to lighten, relieve, or calm.
Allaga, a'l-a', v. to lighten, relieve, or calm.
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Allegiance, alië jë ins, s. duty to head of State.
Allegory, al'legord, s. a figurative description.
Allegor, al'legord, ssi, a quick movement in music.
Allevate, al-lev te-ti, sstv. solely.
Allevate, al-lev te-ti, to bighten, or mitigate.
                   Alleviate, al-lev-8-4; to lighten, or mitigate.
Alleviate, al-lev-8-4; to lighten, or mitigate.
Alleviate, al-lev-8-4; to lighten, or mitigate.
All-sail, aw-l-kail; say, health salutation. [garlic. All-lacaous, al-li-d'sheus, adj. pertaining to allium or Alliance, al-Yan, s., being allied: marriage.
Alligrator, al-lighten, s. a large amphibious animal.
Alligration, al-lighten, s. a large amphibious animal.
Alligration, al-lighten, s., a large amphibious animal.
Alligration, al-lighten, s., the act of placing or assigning.
                   Allocation, al-10-Ex sum, n. to act or passage assigning al-10-kir'shun, n. formal address.
Allocial, al-10-kir'shun, n. formal address.
Allodial, al-10-timent, n. the act or allotting; part Allorm, al-10-timent, n. the act or allotting; part Allorm, al-10-timent, n. the act of allotting; part Allowance, al-10-w'ans, n. the thing allowed; a stated portion of money granted.

Allowance, al-10-w'ans, a superior metal with an inferior.
Allow, al-low, w. to permit.

Allowance, al-low als, s. the thing allowed; a stated portion of money granted.

Alloy, al-loy, w. to max a superior metal with an inferior. Alloy, al-loy, w. to mix a superior metal with an inferior. Alloyage, al-loy'll, st. the act of mixing metals.

Allude, al-liw'l-un, s. a slight mention.

Alluvial, al-liw'l-un, s. a slight mention.

Alluvial, al-liw'l-un, s. a slight mention.

Alluvial, al-liw'l-un, s. land made by the mashing up of sand and earth by the sea.

Ally, al-li, w. to form a union or treaty.

Almane, al-me-ma'rer, s. college where educated.

Almane, al-me-ma'rer, s. calendar of days, weeks, and almond, a'munder, s. one who distributes alms.

Almoner, a'mun-er, s. one who distributes alms.

Aleo, a', on, a semi-tropical plant.

Aloo, a'-loof, a'der, band.

Aloo, a'-loof, a'der, band.

Alpa, a'li, sighe, solitary.

Aloof, a'-loof, a'der, band.

Alpa, a'li, s. the first letter of the Greek alphabet.

Alpha, a'li, s. the first letter of the Greek alphabet.

Alpha, a'li, s. the first letter of the Greek alphabet.

Alpha, a'li, s. the first letter of the Greek alphabet.

Alpha, a'li, s. and s. appertaning to Alsatia.

Altara, aw'ter, w. to make different; to change.

Alterable, aw'ter-ab, ad, that cen be altered.
    were offered; communion table.
After, aw'ter, w to make different; to change.
Alterable, aw'ter-abl, adj, that can be altered.
Alterative, aw'ter-abl, adj, that can be altered.
Alterative, aw'ter-lat, w to dispute.
Altercation, aw'ter-lat, w to follow by turns.
Alternate, aw'ter-fait, w to follow by turns.
Alternately, aw'ter'nat-ll, adj, in turns.
Alternative, aw'ter'nat-ll, adj, in turns.
Altimeter, a.-thm-e'ter, m, instrument for measuring Altitude, alt'nt-lid, m, height.
Alto, alt'o, m, male voice of high pitch.
Altruism, alt'roo-izm, m, acting for others.
Aluminous, allu'nil-nils, adj, containing alun.
    Altruism, al'troo-izm, n. acting for others.
Aluminous, al-lu'mi-nis, adj. containing alun.
Aluminus, al-lu'mi-nis, adj. containing alun.
Aluminus, al-lu'mi, adj. of from the belly.
Amain, a-mān', adv. with main force.
Amaigamate, a-mai'gain-ait, v. to blend. [elements.
Amanuensis, a-main-en'sis, n. one who writes to-
dictation; a secretary.
Amaranth, am'er-auth, n. a species of plants with-
richly coloured flowers.

American service of the service of 
    richly coloured flowers.
Amass, ands', v. to collect in large numbers.
Amasthenic, amas-ken'fic, adj. union of rays of light.
Amateur, am'ā-tiv, v. a, non-professional.
Amative, am'ā-tiv, adj. relating to love.
Amatovy, am'a-tirl, adj. pertaining to love; affectionare.
Amaurode, am-aw-rô'sis, v. total blindness without
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, day; ăt; ârm; ēve; ĕlk; thêre; Ice; pin; machine; böld; pŏt; stôrm; mūte; tub; bûra.

PEARS' CYCLORAEDIA.

Ambage, am bāj, n. circuitous phrases. [woman. Ambaggador, am bas a-dür, n. a diplomatic function.

ary sent by one power to another.

Amber, am'ber, s. a yellow fossil resin.

Ambidexter, am-bi-deks'tür, adj. and s. able to use

both hands alike.

both hands alike.

Ambient, am'blent, adj. going round; surrounding.

Ambiguous, am-big'ū-us, adj. doubtful, uncertain.

Ambitt, am'bit, n. a circuit.

Ambitto, am-bis'nu, n. desire of power, fame,

Ambitos, am-bis'nu, n. to go at an easy pace. [success.

Ambrosia, am-bro'zha, n. the fuod of the gods.

Amburosial, am-bro'zha, n. the fuod of the gods.

Amburosial, am-bro'zha, n. the fuod of the gods.

Ambulance, am'bū-lans, n. carriage for the conveyance

Ambusacade, am'bū-lans, n. carriage for the conveyance

Ambusacade, am'bū-lans, n. carriage for the conveyance

Ambush, am'boosh, n. concealment ready for attack.
Ameliorate, an-e'l'-o-rât, v. to improve.
Amen, ā-men', interi, so let it be.
Amenable, a-me'nābl, adj. easy to handle

Amenable, a-mir-nāti, acti, easy to handle Amenance, am't-nance, n. conduct; behaviour. Amend', v. to improve; to correct. Amende, å-mend', n. a fine; penalty. Amenty, a-mend', n. a fine; penalty. Amenty, a-mers', v. to fine. [to American, american', sm. a-mer's lamber. [to American, american', m. a kind of quartz of a bluish Amiable, d'më-abl, adj, lovable, gentle. [violet colour. Amicable, am'kabl, adj, lovable, gentle. [violet colour. Amicable, am'kabl, adj, finendly. Amid, ā-mid', prop. in the iniddle of, among. Amiss, a-mis, adj, wrong; in error. Amity, am't-tf, n. friendslup. [ing salts, ammonia, am-mo'n-td, n. a gras produced from smell-ammunition, am-mūn-sil'un, n. objects used in military service.

Ammunition, am-mun-sit'un, n. objects used in military service.

Amnesty, am'nest', n. political pardon.

Amorbean, am-e-be'an, adi, reflying alternately.

Amoroso, am-or-o'so, adi. tender, loving.

Amorous, am'ūr-us, adi. inspired with love.

Amorphous, am-or'fis, adi. of irregular shape.

Amount, a-mownt', n. to mount to; to result in; n.

Amour, a-mownt', n. to mount to; to result in; n.

Amour, a-mownt', n. pertaining to amphibian animab.

anumals.

Amphitheatre, am-fith-t'atr, s. an oval or circular chifice or open space for public performances.

Amphora, am-fo'ra, s. a Gicek vessel for holding Ample, am'pl. a, to extend; to increase Amplitude, am'pl.-tid, s. largeness; abundance.

Amputate, am'pl.-tid, s. largeness; abundance.

Amputate, am'pl.-tid, s. to cut off.

Amuca, 3-mdk, adv madly.

Amuse, a-mdz, s. to divert; to entertain.

Amuse, a-mdz, s. to divert; to entertain.

Amuse, a-mdz, s. to divert; to entertain.

Amuge, 2-muz, v. to diver; to entertain.

Amyged, line, a. mig (al-in, v. a. cry stalline property of litter almonds.

[sembling starci.

Amylaceous, ann-la shus, adj. connected with or re
Anabaptist, ann-baptist, v. one who believes in adult baptism only.

haption only.

Anacharia, anak'ar-is, n. a pond or river weed.

Anacharia, anak'ar-is, n. a mistake in time, whereby a thing is allotted to a wrongful date.

Anacoluthon, anak-o-lu'thon, n. absence of word seancondia, ana-kon'da, n. a water snake.

[quence, Anacreontic, an-ak-rč-on'tik, atf., in the style of Anacreontic. of Howers. Anacreon.

Anadem, an'-a-dem, s. a band for the head; a wreath Anamia, an-ë-mia, s. condition of blood weakness. Anæsthetic, an-ës-tset'ik, asj. producing insensibility

to pain.

Anagram, an'a-gram, n. words or sentences formed by changing the order of the letters.

Anagraph, an'a-graf, n. a catalogue.

Analogous, an-a'l-grus, an', bearing resemblance to.

Analyse, an'a'l-list, n. one who analyses.

Analytic, an-a-lit'ik, an', pertaining to analysis.

Analyse, an'a-l-list, v. or resolve into its elements.

Affapest, an'a-pest, n. a term in verse signifying a foot of three syllables, two short and the third long.

Anarchy, an'ar-kl, n. governmental confusion. to pain.

ENGLISH DICTIONARY.

Anarthrous, an dr'thrus, add. without the article, of Greek nouns; (incentenclopy) without wings or legs.

Anathema, an dth'i man, m, solemn deunciation.

Anathematize, an dth'im-at-iz, w, to pronounce ac-

cursed. Anatomy, an-at o-mi, so the art of physical dissection;

science of the bodily structure.

Anbury, an ber-1, n. a disease in turnips.

Ancestry, an'ses-tri, n. line of ancestors.

Anchor, ang'kur, n. for holding ships attached to a certain spot.

certain spot.

Anchorage, ang kir-II, n. spot convenient to anchor Anchorite, ang kir-II, n. a religious recluse. [in. Anchory, an-chiv), n. a small sea fish Anchent, an-chiv), n. a small sea fish Anchent, an'sil-In-I, an', subservient.

Ancillary, an'sil-In-I, an', subservient.

Ancipital, an-siy'it-al, an', double-headed. [music-Andanto, an-dav'ře, an', a slow even movement in Andean, an' id-an, an', of the nature of the Andes. Androgynous, an-drol'/nus, an', having both male and lennale characteristics.

and Jennale characteristics. P.
Aneodote, an'ek-dői, R. a brief story. [strument.
Anemograph, an-em'o-graf, n. a wind-measuring inAnemone, a-nem'8-nl, n. a plant of the crowfoot
Anent, a-nent', prep, even with. [genus.
Aneroid, an'e-roid, ar', a mechanical barometer.
Aneurism, an'e-roid, ar', a mechanical barometer.
Aneurism, an'e-roid, ar', a mechanical barometer.
Aneurism, an'e-roid, n. a. a tumour of an artery.
Anew, ani', artv. again.
Angelology, an-je-b'o-f, n. angel doctrine.
Angelology, an-je-b'o-f, n. angel doctrine.
Angelology, an-je-b'o-f, n. angel for the bell
riner morn, noon, and nicht in Ronan Cabolic

Angelus, anyl-lus, n. the "Ave Maria"; the bell rung morn, noon and night in Roman Catholic churches to command the Angelic Salutation.

Anger, ang'er, n. strong resentful emotion,

Anglua, an-lyna, n. throat inflummation.

Angle, ang'ol, n. a corner; the meeting point of two

Anglican, ang'll-kan, ad/. English.

Anglican, ang'll-ka, "to revider in English form.

Anglo-Catholic, ang'l6-ka/h'-o-lik, n. a ritualistic

churchman,

Anglophobla, ang-glo-fô'hí-a, n. dislike of England. Angora, ang-ô'ra, n. cloth made from angora wool. Anguineal, ang-win'fal, adj. snake-like

Anguisea, ang-win'ial, adj. snake-like
Anguish, ang'wish, n. extreme mental or physica'
Angularity, ang-d-lar'it-I, n with angles. [pain.
Anilaramonic, an-har-mon'ik adj. out of livinon, and anilite, anilite, n. a coal tar product used in dywing.
Anility, anil'it-I, n dotage.
Animadvert, ani-mad-dvert', v. to blame or censure.
Animal, an'l-mal, n. a living being with power of adolerate metion.

voluntary motion

Animalcule, an un-al'kül, n. a very minute animal Animalcule, an un-al'kül, n. a very minute animal Animalsim, ar'im-al-izm, n. the condition of having Animate, an'im-at, v. to enliven [animal appetites] Animosity, an-ini-os'it-I, n. hatred. Animus, an-im-us, n. intention; prejudice.

Anise, an'is, n. an aromatic plant.

Anjevin, an'je-vin, ady. relating to Anjou or the Plantagenet line.

Plantagenet line.
Ankle, ang kul, n. the joint connecting the four with Anna, an'na, n. an Indian coin
Annals, an'01z, n. records of events according to years.

Jean and the cooling the cooling the cooling to the cooling t

joining.

Annihilate, an-ni'hil-āt, v. to reduce to nothing.

Anniversary, an-ni-ver'sār-l, udj. an annual happening, or celebration.

ng, or celebration.

Andona, an-no-na, n. supplies for the year.

Annotate, an-no-na, n. supplies for the year.

Announce, an-no-na, n. to make notes upon.

Announce, an-nown, n. to notify; to make known.

Annual, annual, annual, n. to the third weeks.

Annual, annual, n. to yearly faced payment.

Annual, annual, n. to the supplies of the supplies

dāy; ăt; ârm; ēve; čik; thêre; īce; pin; machine; böld; pot; stôrm; mūte; tub; būrn.

Apant, il-pirt', adv. separate. Apantetic, ap-a-thet'-ik, adf. without feeling. Apanty, ap's-thi, n. indifference.

PEARS' CYCLOPAEDIA

Anodyne, an'o-din, s. a medicine that relieves pain.
Anolait, an-oint', s. to spread with cintment or oil.
Anomaloute, an-oin'd-lus, saft, irregular; contrary to
Anomaloute, an-oin'd-lus, saft, irregular;
Anonymous, an-oin'n-lus, saft, without name.
Anorexy, an'o-rest-si, s., without appetits.
Anserine, airser-la, saft, pertaining to geese; silly.
Answers, an'ser, s. to reply to.
Answers, an'ser, s. to reply to.
Answers, an'ser, and, saft, accountable; able to be Answerable, an'ser-abl, adj. accountable; able to be Ant, n, a small insect. Antagonist, an-tag'-o-nist, st. an opponent; one who contends with another. Antagonistic, an-tag-o-nis'tik, adj. opposed.

Antagic, an-tal' Jik, adj. in reduction of pain.

Antarctic, ant-ārk'-tik, adj. opposite the arctic; the antatud; antata in, aut. opposite the arctic; the south polar region.

Antarthritic, an-ar-thritik, adj. against gout.

Ante, an'te [special], before.

Antecedent, an-th-sident, adj. previous in time.

Antechamber, an'te-châm-ber, w. small room leading Antecedent, an-to-sequent, any, previous in time.

Anteclamber, air excludin-ber, n. small room leading
Antedate, act.

Antedate, act.

Antedate, act.

Antediate, ante log, n. a hollow-homed runnmant

Antenna, an-ten' for ad. prior, before.

Anterior, an-tei'rior, ad., prior, before.

Anterior, an-tei'rior, ad., prior, before.

Anterior, an-tei'rior, ad., prior, before.

Anthem, an'/hem, n. a sacred song.

Ing pollen.

Anthen, an'/hem, n. a sacred song.

Ing pollen.

Antholicy, an-tho'o-ji, n. a collection of flowers,

poems, hyinis or epigrains.

Antholicy, an'/ho'lo, n. a lossil flower.

Anthrasit, an'/has.

Anthrasit, an'/has.

Anthropoid, an'/ho'lo, n', a', a' in sections disease caused

by bacilli, common in sheep and cattle.

Anthropoid, an'/ho'lo, n', a', the science of

the distribution of the human race.

Anthropoid, an'/ho-jo'-jo', n', the science of man,

Anthropoid, an'/ho-jo'-jo', n', the science of man,

Anthropoid, an'/ho-jo'-jo', n', the science of man,

Anthropomorphism, an-dropo-morfizm, the ascrib-Anthropoud, air/airo-poid, air/, resembling man.
Anthropomorphism, an-throp-o-morf'zun, the ascribing of himan form to the Deny.
Anthropomorphism, an-throp-o-morf'zun, the ascribing of himan form to the Deny.
Anthropomorphism, and the same anthropomorphism, and the same anthropomorphism, and the same antiAntiquet, anti-the same and process of Christ and
Anticipate, anti-thiraks, n. the opposite of climax.
Antidote, and the dot, n. a counteracting substance.
Antitebrile, anti-febril, adv sgamst fever.
Antimory, anti-timula, n. a britte crystalline metal.
Antimacassar, an-ti-ma-käs'er, n. a loose covering for
chairs. Antinomiaulam, an-ti-no'mian-izm, s. the doctrine that Christians are freed from obligation to moral Antipathy, an-tip'al-ssi, s. dislike; repugnance. [law. Antiphony, an-tip'o-ni, s. singing or chanting in alternation. [from coal tar products. alternation.

Antipyrin, and priving and a white powder obtained
Antipodes, and products.

Antipodes, and property elected.

Antipodes, and property elected.

Antipodes, and products.

Antipodes, and Antiquary, an'ti-kwar-l, n. one who studies ancient Antiquated, an-t-kwāi'ed, ar't, old or out of fashion. Antique, an-t-ck', art's, ancient. Antiquity, an-t-fik' wit-l, n. times long past. Antiscorbuttic, an-t-fiscorbuttik, ard, a remedy for scurvy.

Antiseptic, an-ti-sep'tik, aif: against putrefaction.

Antithesis, an-titiv'.e-sis, n. opposite meanings.

Antithetic, an-ti-thev'ik, aif; opposite; opposed.

Antitype, an'ti-tip, n. corresponding to a type.

Antier, an'ti-tip, n. corresponding to a type.

Antier, an'tier, n. the branch of a tag's horn. [upon.

Anvious, an'tier, n. the branch of a tag's horn. [upon.

Anvious, an'tien, n. tiron block by hammering metal

Anvious, an'tien, an'tien, and the main artery.

Apace, a-pds', aatv. quickly.

Abathy, ap'd-At, n. indifference.

Ape, āp, n. monkey,
Aperlant, ap-éri-ent, adf, opening; purgative.
Aperlant, ap-éri-ent, adf, opening;
Apertalus, ap'er-tie, n. an opening;
Apetalus, ā-pet'ā-lus, adf, without petals.
Apex, ā' poks, n. the top or point of aplanet's orbit
most distant from the sun.
Aphonia, a'-6'ni-a, n. dumbness.
Aphorism, a'f-o'rian, n. a brief statement of a
scientific principle' a pithy saying or maxim.
Apiary, ā' pi-ar-i, n. place where bees are kept.
Apiculture, ā-pi-kul-tie, n. bec keeping.
Apocalypse, ā-pok'ā-lips, n. the last book of the
New Testament. New Testament.

Apocrypha, a pockrif-\$\(\frac{\pi}{2}\), \$\(\pi\) doubtful or uninspired religious writags.

Apocal, apockrif-\$\(\frac{\pi}{2}\), \$\(\pi\) doubtful origin.

Apodal, ap' obekrif-\$\(\pi\), at' without feet.

Apograph, ap' o-graf, \$\(\pi\) at accoming. If most distant Apograph, ap' o-graf, \$\(\pi\) a faccoming. If most distant Apolloyetic, \$\(\pi\)-0.0. \$\(\pi\). Satan.

Apologetic, \$\(\pi\)-0.0. \$\(\pi\)-0.0. \$\(\pi\). Such a faccoming.

Apologise, \$\(\pi\)-0.0. \$\(\pi\)-0.0. \$\(\pi\). In the regret for.

Apologise, \$\(\pi\)-0.0. \$\(\pi\)-0.1 a fable or parable.

Apoglexy, \$\(\pi\)-0.0. \$\(\pi\)-0. \$\(\pi\) a fable or parable.

Apostasy, \$\(\pi\)-0.5 \$\(\pi\)-0. \$\(\pi\). alsahdonihent of faith.

Apostate, \$\(\pi\)-0.5 \$\(\pi\)-0. \$\(\pi\). "loss of gentrol.

Apostate, \$\(\pi\)-0.5 \$\(\pi\)-0. "". "loss of gentrol.

Apostate, \$\(\pi\)-0.5 \$\(\pi\)-0. "". "loss of gentrol.

Apostate, \$\(\pi\)-0. "". "loss of gentrol." "loss New Testainen Apostatise, ap-ost'at iz, v. to fall away from.

Apostle, ap-os'tl, v. one sent to preach a doctrine. Apostle, ap-os'(l), n one sent to preach a doctrine. Apostrophe, ap-os'(c), e. n. breaking away from the current of speech to address some person apart. Apothecary, ap-ob/fik-nrl, n, one who deals in drug. Apothecam, ap'ob' ein, n a short, pithy saying. Apothecais, ap-ob/e-òs'os, n, a defication or giorifica-Appal, ap-paw', v. tembuse with terror. [tion. Appanage, ap'pan-ăi, n, a provision for younger sons; an adjunct or attribute.

Apparel, ap-par'els, n, body covering; dress. Apparel, ap-par'els, n, instruments or materials. Apparel, ap-par'els, n, ap, visible; evident. Apparition, ap-jan-ish'un, n, a ghostly appearance. Apparition, ap-jan-ish'un, n, a ghostly appearance. Apparition, ap-jan-ish'un, n, n a court official. Apparition, ap-nar-ish'un, n. a ghostly appearance. Appariton, ap-par'it-or, n a court official. Appeach, ap-pac'it, n. to accuse. Appeach, ap-pei't, n. to accuse. Appear, ap-pei't, n. to accuse. Appear, ap-pei't, n. to lead upon; to remove to a higher Appear, ap-pei'r, n. to become visible. [court. Appearance, ap-pei'ans, n. the act of appearing; out-Appearse, ap-pei's, n. to pacify; to allay. [ward show, Appellant, ap-pei'alt, n. one who appeals. Appellatte, ap-pei'att, n. a name general te all of the same kind. "to attach one thing to appears. Append, ap-pend', v. to attach one thing to another. Appendage, ap-pen'dlj, n. something attached.

Appendicitis, ap-pen-di-si'us, n. inflammation of the vermiform appendix. Appendix, ap-pend'iks, n. a supplement.
Appertain, ap-per-tain', v. to connect with, or belong to.
Appettle, ap-pi-tit, n. desire for food; hunger, thirst.
Appetting, ap-pet-tiz'ing, adj. tempting to the

tion allotted. Apposite, adj. in agreement with. Apposite, apjro-zik, adj. in agreement with. Apposition, ap-po-zishun, n. the act of adding. Appraisal, ap-präz'al, n. valuation. Appraise, ap-präz', v. to value. [msted. Appreciable, ap-prë'shi-able, adj. that can be esti-Appseciage, ap-prë'shi-able, adj. that can be esti-Appseciage, ap-prë'shi-able, adj. that can be esti-Appseciage, ap-prë'shi-able, adj.

Appetizing, ap-pet-tiz'ing, adj. tempting to the appetite.

Applaud, ap-plawd', to praise by hand-clapping or Applaud, ap-plawd', no loud praise.

[Cheering. Applaud, ap-plaws', n. loud praise.

Applicable, ap-pl'ins, n. a thing applied.

Applicable, ap-pl'ins, n. a thing applied.

Applicable, ap'plik-abl, adj. that which may be Applicant, ap'plik-abl, n. one who apples.

Apply, ap-pl', v. to put to; to study; to administer.

Appografura, ap-pod-ja-tü'ra, n. the introduction of notes ofgenbellishment in a melody.

Amount, an-onist', v. to fix: to settle; to equip.

Appoint, ap-point, v. to fix; to settle; to equip. Apportionment, ap-por shun-ment, s. share of propor

tion allotted.

Apprehend, ap-pre-hend', v. to seize; to know; to fear.
Apprehensive, ap-pre-hen'siv, adj. quick to note; fearful

reprocuesawe, ap-precients:, add. Quick to Note; fearful.

Appreatice, ap-pren'tis, m. one bound to learn a trade Appricate, ap-ri-kāt, w. to bask in the sun. [or art. Apprise, ap-prick, v. to inform.

Approbation, ap-pro-bā'shun, m. sanction, approval. Appropriateness, ap-pro'pri-ki, w. to take as one's own. Appropriateness, ap-pro'pri-ki, w. to take as one's own. Appropriateness, ap-pro'pri-ki, w. to take as one's own. Appropriateness, ap-pro'pri-ki, w. to ske as one's own. Appropriateness, ap-pro'pri-ki, w. to sanction.

Approve, ap-proov', v. to like; to sanction.

Approve, ap-proov', v. to like; to sanction.

Approve, ap-prov', v. to like; to sanction.

wom in front.

Apropos, ap-ro-pic, adv. appropriately; in reference to.

Ape, aps, part of the choir of a church.

Apt, ad/, ready; adaptable.

Apteral, ag/ter-al, ad/, wingless.

Apterous, ap/ter-us, ad/, without wings.

Apterys, ap/ter-lix, a wingless New Zealand bird.

Aptitude, pp/ti-dd, n. fitness.

Apyretic, ap-u-er/R, feverless.

Aquafortis, ak-wal-for'tis, n. ntric acid. [colour.

Aquamarine, a-k-wan-ren', n. the beryl; adf, sea
Aquarium, ak-wal-for'tis, n. ntric acid.

Aquatitis, ak-wal-for, n. aplace for keeping aquatic

animals and plants in. pertaining to water.

Aquatitis, ak-wal-fix, n. copper etching.

Aquatitis, ak-wal-dikt, n. an artificial channel for the

conveyance of water.

Aqueduct, ak'wi-dikt, n. an artificial channel for the conveyance of water.

Aqueous, a'kwi-us, adj. watery; deposit left by water. Aquilerous, ak-wife-rus, adj. witer-hearing.

Aquiline, ak'wil-in, adj. curved like the eagle's beak. Arabic, at'a-bik, adj. relating to the language of the Arable, ar'a-bik, adj. relating to the language of the Arable, ar'a-bik-ter. no en chosen to decide a dispute. Arbitrator, ar-bi-tra'(or, n. (same as arbiter). Arbitrator, ar-bi-tra'(or, n. (same as arbiter).

Arbitrary arbitrator.

Arbitrary arbitrator, and desposits; wilful.

arbiter or arbitrator.

Arbitrary, ar bi-trer-l, arl, despotic; wilful.

Arbitrary, ar bi-trer-l, arl, to eact as rabitrator.

Arbour, ar bir, n. an enclosed seat or recess in a Arbute, ar būt, n. strowberry tree.

Arc, ark, n. a segment of a circle.

Arcadian, ark-ā dian, adj. pastoral.

Arcanum, ark-ā'num, n. a secret or mystery.

Arch, et a curved construction over an open space;

adj. roguish, cunning.

Arch, s. a curved construction over an open space;
act, roguish, cuming.
Archædogy, årk-ë-of-oj-i, n. the science of antiquities.
Archasma, årk-årm, n. something obsolete.
Archasma, årk-årm, e. something obsolete.
Archasma, årk-årm, e. something obsolete.
Archasma, årk-årm, e. something obsolete.
Archasma, årk-årm, n. a superior angel.
Archetype, årk-årm, n. a singen de deacon. [bishop.
Archetype, årk-i-te, n. an orignal model.
Architepiscopal, årk-i-ep-is/ko-pal, act/, pertaining to an architeshopric.
Architect. Årk-i-te, n. a designer of buildings.
Architecture, årk-i-tekt/ür, n. the science of building.
Architecture, årk-i-tekt/ür, n. the science of building a door

Architecture, ast't-tekt'ūr, m. the science of building. Architrave, aft'ti-ta'v, n. the part surrounding a door or window.

Architrave, aft'ti-ta'v, n. the part surrounding a door or window.

Archives, aft'ti-ta'v, n. repository for public records; also Archinesa, aft'ti-ses, n. cunning.

Arctic, aft'tis, aft, relating to the north polar regions. Arctuate, aft'ti-st, aft, bent like a bow.

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Ardent, af' dent, aft, passionate; earnest.

Arduous, af'di-st, n. surface; an open space.

Arca, af'è-ka, n. a nut-bearing palm.

Area, af-è-ka, n. a nut-bearing palm.

Area, af-è-t'a, n. piaco of foor where public exhibitions

Area, ar-è-d'ia, n. a small area.

Areometry, ār-l-om't-ti, n. science of measuring spe
Argent, af-ei-ti, n. science of measuring spe
Argent, af-jent, n. silver, or silver-like. (clifografity.

Argillaceous, ar-lid-she-us, aft, of the nature of clay.

Argol, år'gol, n. the crust that forms on wine vessels and from which tartaric acid is obtained.

Argon, år'gon, n. a constituent element of the sime-sphere.

Argon, år'gon, n. a ship of olden times laden with Argun, år'gu, v. to try to convince by speech.

Argunent, år'gu, n. a quick-eyed person. [vanced. Argune, år'gu, n. a quick-eyed person. [vanced. Argune, år'gu, n. a quick-eyed person. [vanced. Argune, år'gu, n. a culck-eyed person. [vanced. Argune, år'd. anj. dry; parched. [Christ's divinity. Arian, år'ste, n. the first sign of the zodiac, the Ram. Arise, a-ris'-t. v. to rise up.

Aristarch, år-is-tark; n. a severe critic, from Aristar-Aristate, a-ris'-ta, adj. having awns. [chus. Aristocrat, år-is-tark; a-si. n. nobility. Aristocrat, år-is-tark; a. nobility. Aristocrat, år-is-tark; a. nobility. Aristocrat, år-is-ck-rat, n. one of the aristocraty. Arithmetic, a-rith melitik, n. the science of numbers. Ark, n. a chest or coffer; a floating vessel.

Ark, n. a chest or coffer; a floating vessel.

Aries, Arie, carmest money.

Aries, Arie, carmest money.

Armada, Ar-mā'dā, n. a fleet of warships. [of war.

Armament, Armāment, n. armed forces; munitions

Armillary Armīl-ār-l, adj. in rings or circles.

Arminlan, Armīl-ār-l, n. a believer in the doctrine of

Arminlan, Armīl-ār-l, n. a truce. [destination.

Armour, Arm'ur, n. defensive arms or dress; plating

of warships.

Armorial, Arm'o't-āl, adj. pertaining to armour, or

armour, Arm'ort-āl, adj. pertaining to armour, or

made or stored.

Armott harm'ott n. the hollow under the shoulder.

Armpit, arm'pit, s. the hollow under the shoulder.

Arms, arms, s. weapons of war.

Army, år'mi, s. body of men trained for war.

Army-corps, år'mi-kör, s., a complete division of an

Army-corps, Armi-kör, n. a complete division of an army.
Aroma, h-rö'mä, n. odour.
Arrack, ā'rak, n. an Eastern fermented juice.
Arrack ā'rak, n. an Eastern fermented juice.
Arrack arrack, arrack, n. a calling to account.
Arrangement, ā-rān'ment, n. a calling to account.
Arrangement, ā-rān'ment, n. a calling to account.
Arrangement, ā-rān'ment, n. a calling to account.
Arras, a'rax, n. a kind of tapestry.
Array, ā'r rā', n. order, dress.
Arrears, ā-rērs', n. what is left behind; unpaid duet,
Arrears, ā-rērs', n. what is left behind; unpaid duet,
Arrears, ā-rērs', n. what is left behind; unpaid duet,
Arrears, ā-rērs', n. what is left behind; unpaid duet,
Arrive, ā-riv', v. to get to a place.
Arrogate, ā'rō-gāt, v. to make claim.
Arromalisement, a-roma'cā-māng, n. a section of a
French geographical department.
Arsenal, ā'rsenāl, n. place for naval stores, or for
their manufacture.

Arsenal, âr'se-nâl, n. place for naval stores, or for their manufacture.

Arsenic, âr'se-nâl, n. a mineral polson.

Arson, âr'son, n. wilful burning.

Art, ârt, n., skill in painting, music, etc.

Artery, âr'ter-ĉ, n. a blood-vessel conveying blood from the heart; a main thoroughfare.

Artesian, âr'tê'zî-an, adj. applied to wells made by sinking a shaft in the ground until water is reached.

Artful, âr'ful, adj. clever, cunning.

Arthritis, at-dertis, n., joint inflammation, gout.

Article, âr'tîk, n. a distinct element or part; a clause of a document; a literary composition.

Articulate, âr'tîk'u-lât, avic clear, distinct; v. to joint; is so sound distinctly.

on a occument; a interary composition.

Articulate, fartik'o-ili, s. s.s.s. (clear, distinct; v. to joint; to sound distinctly.

Article, fartik'o-ili, s. s.s. (clear, distinct; v. to joint; to sound distinctly.

Article, farti-ili, s.s. the work of an artificer; a trick.

Article, farti-ili, s.s. a sorkinan.

Article, farti-ili, s.s. a sorkinan.

Article, farti-ili, s.s. a mechanic, imen who work them.

Articles, farti-es, as, s. mechanic, imen who work them.

Articles, farti-es, as, s. mechanic in the main body of the Indo-European races.

Assortida, as-il-ft figli, s. a gum-resin.

Ascending, as-end, v. to climb or mount. [substance.

Ascending, as-end, s. to climb or mount. [substance.

Ascending, as-end, s. to climb or mount. [substance.

Ascending, as-end, s. one who denies himself ordinary. worldly plegaures.

chine: bolder Dot: starm: mite: tith: harn.

dāy; ăt; ârm; ava; čik; thêre; īce; pin; machine; būlde pot; stôrm; mūte; tub; būrn.

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Asceticiam, as-set l-sism, n. the practice of self-denial.
Ascidians, as-sid l-tims, n. a class of mollusca.
Ascribs, 3-skrib', n. to assign, or impute.
Assign as-skrib', shown, n. act of ascribing.
Asspit, a-skrib', shown, n. act of ascribing.
Asspit, a-skrib', n. to liable to putrefy.
Ashamed, is-shimd', adj. made to feel shame.
Ashae, sin'ler, n. burnt remains.
Ashar, ish'ler, n. plain dressed stone.
Aside, a-sid', adv. on one side, apart; n. words said
Asinine, as'-i-nin, adj. as-like.

[to onesoif.
Affinine, as 4-nin, adj. ass-like.

Ask, v. to inquire, to seek.
Askance, #-skins', adv. sideways.
Askance, #-skins', adv. sideways.
Askars, 8-skin, adv. croked, obliquely.
Asparagus, as-par'i-gus, w. a culinary plant.
Aspect, as yeek, w. vew, appearance, situation.
Aspen, as'pen, w. the trembling poplar.
Asperity, s. peprit-ë, w. harshnesa.
Asperse, as-përs', v. to slander.
Asphalt, as-fair', w. a bituninous substance used for Asphalt, as-fair', w. a bituninous substance used for Asphalt, as-fair', w. to utter with full breath.
Aspirate, as'pir-at, w. to utter with full breath.
Aspairate, as'pir-at, v. to utter with full breath.
Aspairat, as'fir', adj. quintingly.
Asaali, as-skiv, v. to attack.
  Asquint, a-skwint', ady. squintingly.
Assall, as-ski', v. to attack.
Assallant, as-ski'nt, n. one who attacks.
Assassin, as-ski'nt, n. one who suddenly murders.
Assassint, as-ski'nt, v. to suddenly kill.
Assault, as-sawit', n. a sudden attack
Assay, as-sk', v. to assess the elements of metal in an
Assayer, as-sk'er, n. one who assays. [ore or alloy.
Assemblage, as-sem'blij, n. a gathering of persons or thinos.
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things.

Assembly, as-sem'blt, n. the art of assembling; the
Assemt, as-sent', n. to agree.

Assemt, as-sert', n. to declare.

Assemt, as-sert', n. to declare.

Assessment, as-ses'ment, n. act of assessing; valuation. Assessor, as-ses'or, n. one who assesses.

Assets, assets or, no. one who assesses.
Assets, assets, n. property or things divisible of a deceased person or debtor.
Assetution, assever-dishun, n. solemn declaration.
Assiduity, assid-"ut-l, n. diligence, application.
Assiduity, assid-"ut-l, n. diligence, application.
Assiduous, assid-"us, ard; unwearying. [transfer.
Assign, assid-"us, ard; unwearying. [transfer.
Assignment, as-sin-weit, n. the thing assigned, document of transfer.
Assignment as-sin-weit, n. the come like.

Assimilate, as-sim-il-ät, v. to become like.
Assimilation, as-sim-il-ä'shun, n. rendering similar.
Assimilative, as-sim'il-ä-tiv, adj. having the power of assimulation

Assistant, as-sis'tant, n. one who helps; lending aid. Assize, as-siz', v. to assess; st. a statute of regulation of prices, etc.; county sittings of judges.

Assizer, as-siz'er, an officer of weights and measures.
Associate, as-so'sh'-āt, v. to jom with; n. companion;
Associate, as-so'sh'-āt, v. to jom with; n. companion;
Associate, as-sociate, as-sociat Assort, as-sort, v. to separate into classes.
Assortment, as-sort/ment, w. a collection of things
Assuage, as-swall, to soften, reduce, allay. [selected.
Assuagement, as-swall/ment, w. abatement.
Assuagement, as-swall/ment, w. abatement.

Assulagement, as-swaj ment, s. abatement.
Assulagement, as-swaj ment, s. habit.
Assume, as-swin', v. to take for granted.
Assume, as-swin', v. to take for granted.
Assume, as-swin', v. to make certain.
Assurance, as-swi' ans, s. condence; insurance.
Assure, as-swi' ans, s. condence; insurance.
Assure, as-swi', v. to make certain.
Asterisk, as'ter-isk, s. a star sign (*) in printed matter, referring to a note at foot or in margin.
Asterisk, s. ter-ism, s. group of small stars.
As'teroid, s. one of the inferror planetary bodles.
Asthmate, as-time, s. man affection of the breathing organs.
Asthmate, as-time, s. d. to cause surprise.
Astound, as-tor-ish, v. to cause surprise.
Astound, as-tor-ish, v. to cause surprise.
Astrockap, s. semicroular moulding round a column.
As'tral, ad, bertaining to stars.
Astriction, as-tiff-thm, s. a coltraction or restriction.
Astringent, as-tiri'sert, s. star-vorsity.
Astrockapy, as-troi'of, s. the science of prediction by the position of the stars.

· dāy; ăt; ârm; ēve; čik; thêre loe; pin; machine; böld; pŏt; stôrm; jaūte; tūb; bûrn.

Astronomy, as-tron'o-ml, s. the study of the stars.
Astronome, as-tiv'ness, s. craftiness, eleverness.
Astronome, as-tiv'ness, s. craftiness, eleverness.
Asymmetry, as-tiv'ness, s. place of refuge.
Asymmetry, as-tiv'ness, s. nine that gradually near
curve but never touches it. curve but never touches it. [teristics. Atavism, a'f-vism, n. recurrence of ancestral charac-Atavism, a'f-vism, n. recurrence of ancestral charac-Atavism, a'f-vism, n. disbelief in God. Athesmeum, a'f-vism, n. disbelief in God. Athesmeum, a'f-vism, n. contrary to theology, a-f-th-ol'o-ji, n. contrary to theology, a-f-th-ol'o-ji, n. contrary to theology, a-f-th-ol'o-ji, n. contrary to theology, athlete, a'f-jic, a'f, concerning athletics. Athletic, a'f-jic-vism athletics. Athletic, a'f-jic-vism jic to Atlas of the Atlas, a'f-jic-vism jic to Atlas or to the Atlas, a'f-jic a'f-jic-vism jic to Atlas or to the Atlas, a'f-jic, n. a collection of maps; the upper part of the vertebral column. Atmospher, a'f-mos-fer, n. the air.

of the vertebrai column.
Atmosphere, a "mos-fer, n: the air.
Atom, a "tom, n: the unit of material substance.
Atomic, a "tom"is, an', pertaining to atoms.
Atomic, a "tom"is, an', pertaining to atoms.
Atrocious, a "to" sim, a "g," a bommable, wicked. [ious.
Atrabillious, at.-a bill-us, aif; melancholic, acrimonatrium, a "tin-um, n: the entrance hall of a Roman

Atrophy, it'ro-fi, n. a stoppage of functional action.
Attach, at-tach', v. to bind to; to connect; to seize.
Attaché, ā-tā-shā', w. a junior difformatist.
Attack, ā-tā-shā', v. to assault.
Attain, ā-tān', v. to obtain; to reach. [of civil rights.
Attaint, ā-tān', v. to convict; to deprive of rights.
Attainte, ā-tān' v., v. to convict; to deprive of rights.
Attainter, a-tān' vir, n. condition of attainder.
Attainture, a-tān' vir, n. condition of attainder.
Attemper, at-tem'per, v. to mix in right proportion;
Attemper, at-tem', v. to try.
Attenda, at-tend', v. to accompany; tome present.
Attendant, at-tend', n., adj. accompanying; n. one
who attends. house.

who attends. [ful.]
Attentive, attent'lv, adj. courteous; solicitous; careAttenuate, at-tent'lv-åt, v. to make thin; lengthen out.
Attestation, at-test-å shun, n. act of attesting.
Attic, at'ilk, n. elegant; pertaining to Athens; a
Atticiam, at'ilk-sis, n. dry wit.
Attirc, at. ir', v. to dress; to array.
Attitude, at'ilk-dd, n. posture; position.

Attorney, at-turni, n. a lawyer; position.
Attorney, at-turni, n. a lawyer; one who acts for
Attract, a-trakt', v. to draw; allure
Attractive, at-rakk'ln, n. act of attracting. (lion.
Attractive, at-rakt'lv, adj. alluring; open to admiraAttribute, at-trib'it, v. to assign or ascribe.
Attribute, at'trib-it, n. a characteristic.

Attrition, at-trl'shun, n. friction. Attruce, at-tr's nun, m. inciton.
Attune, at-tun', v. to put m tune.
Auburn, aw'burn, acij. reddish-brown.
Auction, aw'shun, m. a public sale.
Audacious, aw-da'shus, acij. bold, impudent.
Audacity, aw-das'lt.], m. daring, dashing.
Audible, aw'dibl., acij. to be heard.

Audience, aw'dl-ens, n. an assembly of listeners; the act of hearing; a ceremonal interview.

Audit, aw'dit, st. an inspection of accounts.
Auditor, aw'dit, st. an inspection of accounts.
Auditor, aw'dit-or, st. one who audits; a hearer.
Augean, aw-je'an, ady. difficult: filthy.
Auger, aw'ger, st. a carpenter's boring tool.

Auger, awje an, ag, umcut: um, augur, awger, awger, awger, awgur, aud dio.
Augment, awgurent', v. to add to.
Augur, awgur, n. a diviner.
Augur, awgur, n. an onnen.
August, awgust, n. the eighth month.
August, awgust, n. the eighth month.
August, awgust, awf, imposing, majestic.
Aunci, awflik, adf, connected with a royal court.
Aunt, awrat, adf, connected with the ear.
Aurella, aur-d'i-a, n. chrysalts of an insect.
Aurella, awrit'a, adf, connected with the ear.
Aurella, awrit'a, awf, awflic awger, awrit awger, awrit awgreth, awgreth, awgreth, awgreth, awgreth, awrit'awgreth, awrit awgreth, a

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12
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Babyish, bå-bi-sh, åri, babylike.
Baccarat, bak-ara, a card game.
Bacchanalla, bak-an-å'li-a, n. druking revels, er a
Bacchanalla, bak-an-å'li-an, ari, pertaining to
drunken feasting.
             Auspices, aws'pis-ez. n. patronage; protection. Auspicious, aws-push'us, auf. of good omes. Austere, aw-ster. auf. stern; haughty; severe. Austerity, aw-ster'lt-i, n. severity of manner. Austral, aws'tral, auf. southern.
                 Authentic, aw-hen'tik, and genuine.
Authenticate, aw-hen'tik-at, v. to give validity to
Authenticity, aw-hen-tis'it-i, n. the quality of being
   Authorizative, aw-awards 1-4, % the duality of Dooks.
Authorizative, aw-awards 1-4, % the duality of Dooks.
Authorizative, aw-shors'i-ācl-v, at/s. having proper Authority, aw-shors'i-ācl-v, at/s. having proper Authorize, aw-shors'i-ācl-v, n. to sanction by Authorize, aw-shor-i-āz'shq, n. to sanction by Authorize, aw-shor-i-āz'shq, n. to sanction by Authorize, aw-shor-i-āz'shq, n. to sanction.

[authorize, aw-shor-i-āz'shq, n. n. fast-w-riten bio-graphy.

[steam, electricity, or petrol.
Autocacia, aw-to-krast'in, as an absolute ruler.

Autocacia, aw-to-krast'in, as an absolute ruler.

Autocacia, aw-to-brast'in, as-sol-i-shir; separative, as-sol-atin; separative, a
                                                         authentic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dooks
      mioving; a motor-car.
Autonomous, aw-ton'o-mus, ad/. pertaining to self-
Autumn,*w'tum, n. the fall of the year.
Auxiliary, awy-zil'car.; ad/. subsidiary.
Avail, 3-väl', n. to be of use to; to take advantage of
Avalanche, àv'ā-lansh, n. n falling mass of snow or icc.
Avarice, àv'ā-ris, n. kcm desire of money or property.
Ave-Maria, àv'ā-ma-rē'ā, n. the salutation to the Virgin.
Avenaçeous, ave-na'ā-silss, ad/; in the nature of oats,
Avenue, avenu', n. to take vengeance upon.
Avenue, ave'n-u, n. an approach; a tree-bordered
road; a man thoroughfare.
          Aver, a-ver', v. to assert.
Average, av'er-ij, n. the mean value.
             Averment, a-ver ment, s. a positive assertion.
             Averse, å-vers', adj. contrary to; disliking.
Averson, ä-ver'shun, n. dislike; hatred; repugnance.
Avert, a-vert', v. to divert or prevent.
                 Aviary, ā'vi-ar-ī, n. a place for kecping birds.
Aviate, ā'vī-āt, z. to fly by aeroplane.
Aviate, 3'vi-ar-1, n. a pace to recoming direct.
Aviate, 2'vi-3t. v. to fly by aeroplane.
Aviating, avi-3t. v. to fly by aeroplane.
Aviating, avi-3t. v. to fly aeroplane.
Aviating, avi-2t. v. to fly aeroplane.
Avocation, av-0-th'shun, n. occupation.
Avoid, avoid, n. to shun; to escape from.
Avoidance, 5-vo'dans, n. the act of shunning.
Avoidhoid, avo-roth-pote', n. weights system in which 16 oz. go to the pound.
Avouch, 5-vowch', v. to assert.
Avow, 3-vow', v. to declare.
Avowwi, 4-vow', v. to declare.
Avowwi, 4-vow', v. to valit for.
Awanta, a-wi', v. to wait for.
Awate, 3-wi', v. to wait for.
Awate, 3-wi', act, onscious.
Away, a-wi', adi, conscious.
Away, a-wi', adi, direafful; causing awe.
Awkward, a-wi', adi, conscious.
Awi', a. to ward.
Awi', n. a tool for making holes in leather.
Awn, n. a husk or beard of grain.
Awn, n. a husk or beard of grain.
Awn, n. a tool for making holes in leather.
Awn, n. a husk or beard of grain.
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Awn, n. a tool for making holes in leather.
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Awn, n. a tool for making holes in leather.
Awn, n. a tool for making holes in leather.
Awn, n. a tool for waite in distorted.
   Awn, n. a husk or beard of gram.
Awning, n. a covering from the sun.
Awning, n. a covering from the sun.
Awilary, a.t.! awij, d., relating to the armplt.
Axidary, a.s.! awij, d., relating to the armplt.
Axiom, aks'l-om, n. a self-evident truth. [volves.
Axis, aks's, n. the pount or line on which a thing re-
Axie, aks'sil, n. the rod on which a thing re-
Axie, aks'sil, n. the rod on which a thing re-
Axie, aks'sil, n. the rod on which a thing re-
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Axie, aks'sil, n. the rod on which a thing re
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Babble, bab'bl, v. childish prattle; murmuring sounds. Babel, ba'bl, z. confused sounds.

drunken feasting.

Bachelor, bacth'el-or, m. an unmarried man.

Bacilus, bacil'us, m. disease germ. [slandered.

Bacilus, bacil'us, m. disease germ. [slandered.

Backbite, bak'bit, v. to slander in the absence of the

Background, bak'ground, m. the back of a scene or

picture; obscurity.

Backslide, bak-slid', m. to lapse from faith or principle.

Backward, bak'werd, am', towards the back or past.

Badige, bad, m. something worn or carried as distinguishing mark.

Bading, bat'fi, v. to hinder, chaff.

Bagf, m. a suck or pouch.

Bagg, m. a suck or pouch.

Bagg, m. a suck or pouch. Ballie, ball, n. to hinder.

Bagy, n. a sack or pouch.

Bagyage, bag'ij, n. a mere nothing; a game with board, balls, and cue.

Bagyage, bag'ij, n. a wind matrument, blown with sack personal sapples, bag pip, n. a wind matrument, blown with sallier, ball-r, n. one who holds good from Laft bag.

Ballier, ball-r, n. a Scotch number of officer.

Balliwick, ball-wik, n. a ballif is territory.

Baile, ball, n. food to line fish, temptation.

Bake, bak, n. to cook by heat n. overnings.

Bake, bak, n. to cook by heat n. overning.

Balance, ball-an, n. a bakehouse.

Balance, ball-an, n. a weighing apparatus; amount required to cqualise two sides of an account.

Balance, ball-an, n. a weighing apparatus; amount required to cqualise two sides of an account.

Balance, ball-an, n. a solder's sach.

Baldrick, ball-fin, n. malebone.

Baldrick, ball-fin, n. malebone.

[water.

Ballier, ball-in, n. malebone.

Ballier, ball-in, n. whalebone.

Ballier, ball, n. package or bundle; v. to throw out ballen, ball-fin, n. whalebone.

Ballier, ball, n. a nay round substance; an assembly of Ballad, ball'all, n. a snaple song.

Ballast, bal'ast, n. weight added to a ship of light cargo to keep her steady.

Ballistie, bal'ia, n. a dance with pantomime action; a Eallistie, bal'ia, n. a nontment.

Ballon, bal-loun, n. an ontment.

that floats in the air.

Ballot, bal'at, m. a voting ticket; secret voting; v. to Balm, bain, m. an omtment. [select by balloting. Balmy, balm'i, aci, fragrant, scotling. [an omtment. Balsam, baw'i, aci, n. a genus of herbaceous plants; Balustrade, balu-brad'i, m a row of balusters. Bamboo, bam-boo', m a hollow Assatic reed.

Bamboozle, banu-bood', v. to confuse.

Ban, proclamation of banushment; v. to banish.

Ban, proclamation of banushment; v. to banish. Banal, ban'ol, ady. trifling, absurd. [lands. Banana, ban-a'neh, s. a nutritious fruit of tropical Band, hand', s. any material used to bind things

with; a body of musicians; a company associated for any set purpose. [poses, Bandage, ban'dlj, s. strip of cloth for binding pur-Bandana, ban-dan'a, s. an Oriental handkerchief of

Bandana, bandana, s. an Oriental nanokerchie or silk or cotton.

Bandibox, band'boks, s. a light receptacle for hats, Bandit, ban'dit, s. a robber, an outlaw. [etc. Bandoleer, ban-do-lèr', s. ammunition belt. Bandoline, ban'do-lin, s. hair stiffening substance. Bandrol, band'rd, s. a bent club used in a ball game. crooked.

crionked.

Bandy-legged, ban'di-legd, adj. having crooked lega.

Bang, n. a sudden blow.

Banian, ban'sh, n. an Indian tree whose branches abanish, ban'sh, n. di expel: to order into exile.

Banister, ban'is-ter (si.me as baluster).

Gorder.

Banister, ban'is-ter (si.me as baluster).

Gorder.

Banio, ban'jo, n. a stringed instrument of the guitar

Bank, bangk, n. a mound; a place where money is
deposited.

Current als money.

Bank-note, bank-nöt, n. note issued by a bank and

dāy; šā; ârm; ēve; ēlk; thêre; īce; pīn; machine; bold; pŏt; stôrm; mūte; tǔb; būra.

Bat, a. a winged animal with a mouse-like body. Batesti, bâ-to', s. a Canadian river boat.

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Barber, barb'ur, n. one who shaves and dresses hair.
  Barber, barb'ür, n. one who shaves and dresses hair. Bard, bard, n. a poet, a singer. Bardic, bard'ik. adj. pertaining to bards. Bare, bir. adj. uncovered.
Baresed, bār'lāst, adj. with face uncovered; im-Barege, har-lāzh', n. a light silky fabric [pudent. Bargain, bar'gen, n. a contract: a favourable pur-Barge, barj, n. a flat-hottomed boat. [chase. Barthoue, barT-loin, n. voice between tenor and bass. Bark, bārk, n. the rind of a tree.
Barley, barj il, n. grann from which malt is made. Barley, barj il, n. grann from which malt is made. Barleycorn, bar'li-korn. n. a barley grain.
       Barn, harn, n. building for storage of grain, etc.
Barnacle, barnakl, n. a shellfish that sticks to ships'
bottoms and rocks; irons put on horses' noses to
  keep them quet.

Barometer, barom'tôr, n an instrument for measuring the pressure of the atmosphere. [of Peers. Baron, băr'un, n. the lowest title of rank in the Hoss. Baronet, băr'un-di, n. the whole of the barons. Baronet, băr'un-di, n. the lowest British hereditary baronetey, băr'un-dis, n. rank of baronet. [title. Barony, bar'un-di, n. the territory of a baron. Barouche, băr'un-di, n. a four-wheeled carriage. Barque, băr'un, n. a small ship.

Barracky, băr'un-di, n. a suiding for soldiers. [river. Barrage, băr'ul, n. a stificial bar for deepening a Barracky, băr'un-di, n. fraudulent practices in conucc-Barrel, băr'ul, n. a cylindrical cask [tion with ships-Barrenness, băr'un-ness, n. unfrutfulness.
                                     keep them quict.
    Barratry, bldr'st-re, n. frauduent practices in connectance, in a with ships. Barrenness, bar'un-ness, n. unfrutfulness. Barricade, bst-'k-kād, n. temporary fortification. Barrier, bst-'k-kād, n. temporary fortification. Barrier, bst-'k-kād, n. temporary fortification. Barrister, bst-'k-kād, n. a nemebr of the legal bar. Barrow, bst-'rd, n. a one-wheel hand cart. Bar-shot, bst-'shot, n. a bar with a shot at both ends. Barter, bst-'tur, v. to exchange. Basalt, bst-shuff, n. an igneous rock. Basaltic, bst-ol'tik, adj. pertanning to basalt. Base, bs, n. foundation; the chief ingredent. Base-ball, bst-'bawl, an American game of the rounders.
  Base-ball, bas'bawl, an American game of the rounders.

Basement, bis'inent, n. the lowest storcy of a building. Bashaw, bashaw, n. a Pasha.

Bashawi, bash'ful, ady. shy.

Basil, bis'ill, an aromatuc plant.

Basilicon, bāz-li-isk, n. a fabulous dragon with fiery eyes; a tropical lizard.

Basilicon, bāz-li-isk, n. a fabulous dragon with fiery eyes; a tropical lizard.

Basilicon, bāz-li-isk, n. a fabulous dragon with fiery eyes; a tropical lizard.

Basilicon, bās-li-isk, n., a fight kind of cradic, frushes.

Basson, bās-li-isk, n. a receptacle made of cane or Bassinet, bās-li-isk, n. a receptacle made of cane or Bassinet, bās-li-isk, n. a fight kind of cradic, frushes.

Bassoon, bā-soon', a wind instrument. [in low relief, Bas-relief, bā-fi-leef, n. figures geniptured or carved Bastard, bas-fard, a child bogf out of wedlock.

Bastinago, bās-fin-ā-dō, n. punishment by bṣating the geniptured or the feet.

Sole of the feet.
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Bathos, bathos, s. ludicrous writing or speech.
Bathos, bathos, s. ludicrous writing or speech.
Baton, bathon, s. a conductor's wand; a staff or truncheon. truncheon.
Battallon, bital'yum, s. a body of soldiers.
Batten, bit'um, v. to get fat.
Batten, bit'um, v. to get fat.
Batten, bit'er, v to beat: n. ingredients beaten into
Battery, bit'er, v. s. an equipment of cannon. Ipaste.
Batting, bit'ding, n. sheets of conton fibre. I lants.
Battle, bat'l, n. a combat of troops or other contestBattledore, bit'dor, a. bat for playing shuttlecock.
Battlement, bit'ment, n. an embrasured wall.
Battle, bat'too', n. game driving for convenience of
Bauble, baw'hi, n. a trife; a plaything. [shooting.
Bawd, n. a, vocurer or procures. Baude, 0aw bi, n. a trine; a plaything. [snooting. Bayd, n. a, voctier or procuress. Bay, ba, ac/, s reddish-brown colour; an inlet of the sea; the space between two columns. Bayadere, bat-5-ddr, n. a Hindu dancing-girl. Bayonet, bi-6-not, a stabbing instrument fixed to the muzzle of a rifle. Bayon, ba yoo', n. outlet of lake or river.
Bay-window, ba'windo, n. a projecting window.
Bazaar, bd.zar', n an oriental market piace; a fancy
Beach, bech, n, the shore Beach, bech, n, the shor. [fair. Beacon, beckun, n, a signal fire on a hill. Bead, bed, n, a little pierced hall through which a string can be threa-flex. Beadroll, bed/rhl, n, a list of names. Beadsman, beds/man, n formerly an official employed Beagle, begg, n, a small hound. [to pray for others Beak, bek, n, a bird's bill. Beaker, becker, n, a drinking cup. Beam, bein, n, a supporting piece of timber or iron. Bean, bein, n the name of several varieties of plants bearing pods and seeds. Bear, bār, v. to supper or endure.
Beard, herd, n the hair of the chin.
Bear-garden, bār'gard-un, n. the place where bears Bear-garden, bär'gard-un, m. the place where bears are confined; a nova assembly.
Bearing, bär'ing, n behaviour attitude, Beast, bëst, n. any four-footed animal; a vulgar Beat, bët, n. to strike [person. Heatific, b. at-if'lk, adj. making blessed or happy. Beathfoation, bë-at-if-lk, adj. making blessed or happy. Beathfoation, bë-at-if-lk, n. to render biessed.
Beattlude, bë-al't-lu, n. to render biessed.
Beattlude, bë-al't-lu, n. dishion; a dandy, a lover.
Beau, bö, n. a man of fashion; a dandy, a lover.
Beau-ideal, bë-l-dë'al, n. an ideal standard of Beau-ideal, bō-i-dē'al, n. an ideal standard of excellence.

Beauteous, bō't-las, adj abounding in beauty.

Beautiful, bō't-lai, adj fair: pleasing: admirable.

Beautify, bō't-lai, v. to render beautiful.

Beauty, bō't, n. a combination of attractive qualities.

Beaver, be'ver, n. an ampinibous rodent.

Because, b-l-kawi', v. to inake calm.

Because, b-l-kawi', v. to inake calm.

Because, b-l-kawi', v. to inake calm by clouds.

Beckon, bek'un, v. to signal to.

Beckon, bek'un, v. to signal to.

Beckon, bek'un, v. to signal to.

Beckon, bek'un, v. to inake dim by clouds.

Bed, n. a place to sleep on; a garden plot.

Beddhamber, bed'châm-ber, n's keeping room.

Bedding, b-d'ung, n. materials for the bed.

Beddamber, bed'châm-lai, n. a linatuc.

Beddridden, bed'irldin, adj. confined to bed.

Bedstead, bed'stēd, n. frame of a bed.

Beech, bed, n. a forest tree with smooth bark. Bee, n. a honey-making insect.

Beech, bēch, n. a forest tree with smooth bark.

Beechen, bēch, n. a forest tree with smooth bark.

Beechen, bēch, n. a forest tree with smooth bark.

Beechest, bēch, n. a yeoman of the guard.

Bee-hive, bēchiv, n. receptacle for keeping bees.

Beer, bēt, n. hiquor made from barley and hops.

Beet, bēt, n. a plaint used for food and sugar making.

Beetle, bēt, n. a palait used for food and sugar making.

Beetle, bēt, n. a cuttle

Beetle, bēt, n. a cuttle

Beituting, birting, adj. suitable.

Beforged, birtori, adj. obscured in fog; confused.

Befor, birting, adj. obscured in fog; confused.

Befor, birtori, r. vid deceive, or make look foolish.

Before, birtori, r. produce or generate.

Beggar, beg'ar, n. one who begs.

dāy; ăt; ârm; šve; čik; thêre; jce; pin; machine; böld; pot; stôrm; mūte; tūb; bûra.

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PEARS' CYCLOPAEDIA.

Beggarly, beg'ür-ii, n. poverty.
Beggary, beg'ür-ii, n. poverty.
Begin, b'gin', v. to commence.
Begullement, b'gün', v. to ber or conduct properly.
Beharl, b'holf, n. iavour or benefit.
Behave, bi'holf, n. iavour or benefit.
Behave, bi'holf, n. iavour or benefit.
Behave, bi'holf, n. command.
Behest, bi'hest', n. command.
Behest, bi'hest', n. command.
Behest, bi'hest', n. command.
Behest, bi'hest', n. command.
Behest, bi'holf, n. iavour', n. command.
Behest, bi'holov', v. to be fit for.
Beian, b'jan, n. a freshman of certain Scotch universeknown, bi-noi', ag', known.
Belabour, b'ila'ted, ag', too late.
Belated, bi'la'ted, ag', too late.
Beladud, b'la'ted, v. to praise.
Belligravian, bel'gra't's-an, ag', fashionable
Belgravian, bel'gra't's-an, ag', fashionable
Belgravian, bel'gra't's-an, ag', fashionable
Belgre, bi'li', v. to contradict; falsip'.
Bellic, bi-li', v. to contradict; falsip'.
Bellic, bi-li', v. to contradict; falsip'.
Bellicose, bel'b'k's, a. and; contentious.
Bellicose, bel'b'k's, a. and; contentious.
Bellicose, bel'b'k's, a. an excarrying on waffare;
Bellows, bel'o, v. to cry out violently.

Bellicose, bel'b'k's, a. an instrument for blowing the fire.
Bellow, bel'o, v. to cry out violently.

Bellow, bel'o, v. to cry out violently.

Bellows, bel'o, v. to cry out violently.

Bellows,
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ENGEISH DICTIONARY.

Bestrew, bi-stroo', to to scatter loosely.

Bet, n. a wager.

Betake, bi-tak', v. to take oneself to.

Bethink, bi-tak', v. to take oneself to.

Bethink, bi-tak', v. to recall.

Betimes, bi-tims', edv. in good time.

Betoken, bi-tims', edv. in good time.

Betray, bi-trik', v. to deceiva.

Betray, bi-trik', v. to deceiva.

Betray, bi-trik', v. to become affanced.

Betreth, bi-tribi', v. to become affanced.

Between, bi-tribi', v. to become affanced.

Between, bi-tribi', v. to become affanced.

Between, bi-tribi', v. to manning.

Between, bi-twi', n. a slanting edge.

Beverage, bever-idl, v. liquid refreshment.

Bevy, bev', n. a brood, flock or company.

Bewail, bi-wit', v. to mourn.

Bewail, bi-wit', v. to accuse.

Bey, bal, n. a Turkis governor. c.

Beyond, bi-yond', prep. farther; out of reach.

Bezel, bez'i, n. the setting of a precious stone.

Bezique, bi-zik, n. a card game.

Biblio, n. a cloth placed beneath an infant's chin.

Biblio, bi-jik. n. to Old and New Testaments.

Bibliolaty, bi-bi-co'-d-tri, n. superstitious regard for the Bible.

Bibliography, bib-ic-o'-d-tri, n. superstitious regard for the Bible.
Biblical, bib'lik-al, adf, relating to the Bible.
Bibliolatry, bib-ic-of'-ciri, n. superstitious regard for
the Bible.
Bibliolatry, bib-ic-of'-ciri, n. superstitious regard for
the Bible.
Bibliomaniac, bib-ic-of'-ciri, n. superstitious regard for
Biblious, bib-ic-of'-ciri, n. superstitious regard
Biblious, bib-ic-of'-ciri, n. superstitious, in charle.
Biccap, bi'-seps, n. the muscle of the upper part of the
Bicker, bik'ur, v. to contend querulously.
Bidcur, bi'-korn, adf, double-horaed.
Bicycle, bi'siki, n. a twn-wheeled cycle.
Bidd, v. to propose; to offer.
Bide, bid, v. to wait for.
Bidental, bid-ent'-al, adf, every two years.
Beennial, bi-ent'-al, adf, every two years.
Beennial, bi-ent'-al, adf, every two years.
Beennial, bi-ent'-al, adf, every two years.
Bid-acid, bid-ent'-al, adf, and the superstition, add, and the superstition, add, and the superstition, add, and the superstition, add, bid-ent'-al, adf, with two sides.
Bid-acid, bid-ent'-al, adf, with two sides.
Bid-acid, bid-di-cal, adf, with two sides.
Billo, bil-bi, a. a singler.
Billo, bil-bi, a. a singler.
Billo, bil-bi, n. a singler.
Billo, n. a bitter fluid secreted by bile.
Billions, bill'ur, n. a million millions.
Billow, bil'-ci, n. a small log; a little note.
Billilons, bill'-ci, n. a small log; a little note.
Billilons, bill'-ci, n. a single perstition of two parts.
Bimanous, bim'-on, n. a million millions.
Billow, bil'ct, n. a sm
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dāy; āt; ârm; ēve; čik; thère; īce; pīn; machine; böld; pŏt; stôrm; mūte; tūb; būrn. ť

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Birchen, birtsh'en, adf. made of tirch.
Bird, berd, n. a feathered animal.
Birdiagre, berds'l, n. a kind of tobacco.
Bird, berd v. to spin round.
Birth, berd v. to spin round.
Birth, berd n. to sch or of bearing offspring.
Biscutt, bir'kit, n. small cake of dried bread.
Bisect, bleakt', v. to divide into two parts.
Bisaction, bi-sek'shun, n. division into two.
Bisabop, bish'up, n. an ecclesiavtic having direction of a docese.
Bismuth. bir'muth.
       a diocese.

Blanuth, bir muth, n. a reddish-white metal.

Blaou, b'ison, n. a wild animal of the buffalo species.

Blatre, bis'ter, n. a warm brown pigment.

Blaulcate, bi-sul'kât, n. a sait of suphuric acid.

Bite, bit, v. to seize with the teeth.

Bitters, bit'erz, n. extract of bitter herbs. [viances, bit'erz, n. bit'men, n. infammable mineral sub-

Bitumen, bit'dimen, n. infammable mineral sub-

Bivouac, bit'oneak, n. soddiers comping at nicht in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [stances, •
   Bivalve, bivalv, n. an animal with two shells.
Bivouac, bivo-oak, as soldiers camping at night in the
Bisarre, biz-dr', arj. odd, extravagant.

Black, biak, arj. the darkest colour; obscure; malig-
Blackshall, biak'awl, v. to reject on a ballot. [nant.
Blackshall, biak'akl, n. oxen, bulls and cowa.
Blacksquard, bia'gard, n. vulgar fellow.
Blacksmall, blak'māl, forced tribute: hush money.
Blackmall, blāk'māl, forced tribute: hush money.
Blacksmall, blāk'māl, forced tribute: hush money.
       Blackmall, blak'mål, forced tribute; hush money. Black-rod, blak'rod', n. a Parliamentary official. Blacksamith, blak'smith, n. a worker in iron. Bladder, bladt, n. the bag which holds the urine. Blade, bläd, n. a leaf of grass; the cutting part of a Blain, blän, n. a boil.
Blame, blän, n. blame, n. did blame, blänna, blän, n. a boil.
Blame, blänna, n. to whiten.
Blanch, blansh, n. to whiten.
Blanch with flour and nulk.
Blanch with flour and nulk.
   Blancemange, Dia-mawngzm, n. a Jeny prepared with flour and milk.
Blandishment, blan'dish-ment, n. flattery.
Blandness, blind'ness, adv. gendeness.
Blank, adv. empty; without marks; vacant.
Blanket, blangk'et, n. a woollen bed covering.
Blare, blang, v. to make a loud noise.
Blaspheme, blas-fein', n. to worar.
Blasphemy, blas'fi-mi, n. profane speaking.
Blast, n. a gust of wind.
Blatant, blk'tant, adv. noisy.
Blate, blat', adv. awkward, bashful.
Blatter, blat'n, v. to prate; n. a clash of words.
Blazon, blat'sn, v. to publicly notify.
Blazonery, blaz'on-ri, n. the drawing of coats of arms.
Bleach, bleetch, v. to whiten.
Bleach, bleetch, v. to whiten.
Bleach, bleetch, v. to whiten.
Bleach, bleetch, v. as a sheep's cry.
Bleach, blett, adv. cold, cheerless.
Bleak, blet, adv. foold, cheerless.
Bleak, blet, adv. foold, cheerless.
Bleak, blet, adv. don', blurred.
Bleat, blet, v. a sheep's cry.
Bleb, v. a blister.
           Bleb, n. a blister.

Blebd, n. a blister.

Bleed, bled, v. to loose blood.

Blemish, blem'ish, n. defect, stain.

Bleach, blensli, v. to shrink or flinch.
Blench, blensh, v. to suring or information.

Blench, v. to mixe happiness upon.

Blench, v. to invoke happiness upon.

Blencher, blenth'er, v. to talk nonsense; garrulous non-
Bletcher, bleth'er, v. to talk nonsense; garrulous non-
Bletcher, bleth'er, v. ta
   Blink, v. to wink. [seen no re Bline, v. supreme happiness. Bline, v. supreme happiness. Bline, v. supreme happiness. Bline, blir'erd, v. a watery bubble on the skin. Blitche, blir'erd, v. a severe smorsterm. Bloated, blir'erd, v. a. puffed outge Bloater, blir'erd, v. a. sured herring. Blobs, v. a. drop of liquid. Block, v. a. mass of wood or stone; an obstruktion. Blocks, v. a. mass of wood or stone; an obstruktion. Blocks, v. a. mass of wood or stone; an obstruktion. Blocks, v. a. waste of siege. Blockhead, blök'hdd, v. a stupid person.
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Biocheystem, blök'sist-em, n. a signalling method by which two trains cannot be in one section at once.

Binde, blond, n. a fair-complexioned person.
Blood, blod, n. the red life fluid of men and animals; descent, relationship. [stained, murderous, Bloody, blidd'l, adi, of the nature of blood, blood-Bloom, v. to come into flower; to flourish, bloomer, n. a style of dress invented by Mrs. Bloomer, homer, n. a style of dress invented by Bloomer, bloomer, n. a force for line. Mrs. Bloomer.

Bloomery, bloom'er4, n. a forge for iron.

Blot, n. a stain; an obliteration.

Blotch, blotsh, n. a spot on the skin.

Blotter, blot'ur, n. a blotting book.

Blouse, blowz, n. a loose outer bodice.

Blowser, blo'er, n. a machine for creating air blasts.

Blow-pipe, blo'pip, n. a pipe through which air is

Blouber, blub'ur, n. the fat of whales.

Bludgeon, blud'un, n. a cudgel. Bludgeon, blud'jun, n. a cudgel. Bludgeon, blud'jun, n. a cuogea.
Blue, bloo, n. sky-colour.
Blue-book, bloo'book, n. Farliamentary papers.
Blues, blooz, n. delirium tremens.
Blues, blooz, n. delirium tremens.
Bluestocking, bloo'stocking, a literary lady of Bluff, bluf, adf, blustering.
Blunder, blum'der, n. to make an error; n. a mistake.
Blunderbuss, blum'der-būs, n. an old-fashioned hand-Bunnerouss, bun'der-bas, m, an old-assinoned hand-blunt, ad, rough-edged.
Blur, blür, m, a stain, spot, or blemish.
Blurt, v to speak abrupity.
Blushing, blush'ning, n, the act of turning red.
Bluster, blush'r, v. to swagger noisily: n, boastfulness
Bos, bo-8, m, a garnnent of fur or feathers worn round
togs: bio-8, m, a garnnent of fur or feathers worn but before Bluster, blus'tr, v. to swagger noisily; n. boastfulness Boa, bo-å, n. a garnnent of fur or feathers worn round Boar, bo-èr, n. a male hog. [the neck by ladies. Board, bawrd, n. a thin sheet of timber; food. Boarded, bawrd, n. a thin sheet of timber; food. Boarded, boarded, Boast, bat, v. to brag.

Boat, bot, n.
Boatswain, bo'sun, nin ship's petty officer.
Bob, v. to move jerkily up and down.
Bobtail, bob'ia, n. a seel on which thread is wound.
Bobtail, bob'ia, n. a short tail.
Bocking, bob'in, n. a short tail.
Bodici, bob'is, n. a short tail.
Body usrd, bod'is, n. a short to rpricking holes.
Body, usrd, bod'is, n. a short tail.
Boggy, bog', ad', sham.
Bobea, boh'e, n. a Chinese tea.
Bohemian, bo'he'n. a. Chinese tea.
Bohemian, bo'he'n. a. Chinese tea.
Bolemian, bo'he'n. a. Chinese tea.
Bolemian, bo'he'n. a. Chinese tea.
Bolemian, bo'he'n. a. Chinese tea.
Bolesterous, bos'ter-us, ad', turbulent; noisy; wild.
Bold, ad, daring.
Boll, bo', n. a pod or seed vessel.
Bolster, bo't'ser, n. a long pillow.
Bolt, n. a bar; an arrow; a thunderbolt; v. to fasten Bolus, bo'ts, n. a large pill. Bolster, bo'ster, n. a long pillow.

Bolt, n. a bar; an arrow; a thunderbolt; n. to fasten
Boltus, bo'lus, n. a large pill.

Bomba, bum, n. an explosive projectile. [bomba.

Bombardment, bom-bard'ment, n. attacking with

Bombaz, bom'bast, n. pompous language.

Bombazine, bom-bast'er, n. a twilled fabric.

Bombastic, bom-bast'fk, adj. infatted.

Bombastic, bom-bast'fk, adj. infatted. Bonanza, bon-an'za, n. a rich mine. Bond, n. that which binds; connecting link; a docu-Bond, n. that which binds; connecting link; a document coveranting to pay.

Bondage, bon'di, n. captivity.

Bondage, bon'di, n. captivity.

Bondaman, bonde man, n. a slave or surety.

Bone, bon, n. sulvisance of the skeleton.

Bonflie, bon'fir, n. an open-air fire.

Bonnet, bon'et, n. a head covering.

Bonny, bon'i, adj. handsome; pleasing.

Bonny, bon'in, adj. thin of flesh.

Bonse, bonz, n. a Bhuddist priest.

Bonse, bonz, n. a stupid fellow.

[gethek.
Book, book, n. written or printed matter bound toBook-keeping, book keeping, n. the art of accounts.

Bookmaker, book'mäkr, n. one who bets by a system.

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Brandy, brand'i, n. a spirit distilled from wine. Brank, r. to prance or strut. Brank, r. to prance or strut. Brasier, brid zi-er, n. n evssel for holding fire. Brass, n. an allow of copper and zinc. Brattice, brail'is, n. a wooden partition. Bravado, bri-wido, n. a swayge: x. Brave, brid, adj. courageous. Bravery, briderl, n. courage. Bravery, brid'erl, n. courage. Brave, brid'vo, n. a lined assasin. Bravura, brid'vi'a, n. floral neusic. Blawl, n. a noisy ounce.
   Bookworm, book wurm, n. a man devoted to rev ling.
   Boom, n. a sail-bearing pole; v a rush
   Boomerang, boom'er-ang, n. a missile used by Austi-
Boon, n. gift, benefit. [lian natives.
                                                                                                                                        han natives.
   Boor, n. a rough peasant.
Boorish, boor ish, adj. awkward.
   Boot, n. a covering for the foot and lower part of leg. Booth, n a covered temporary erection.
 Bootjack, boot'jak, n. an instrument for taking off
Bootless, boot'less, adj. useless. [boots.
Boot-tree, boot-tree, n. a last.
                                                                                                                                                                                              Brawn, h. a noisy quarrel
Brawny, brawni, adv strong, muscular.
Braxy, brak'st, n. a shorp disease.
Bray, bra, v to pound; n. a donkey's cry.
 Booty, boot'i, n. plunder.
Border, bawr'der, n. an edge, nargin, or boundary.
 Bore, bor, v. to pierce; n. one that wearies
Boreal, bornal, adj. relating to the north wind.
Born, bawrn, v brought into ble.
                                                                                                                                                                                            Braze, braze, to solder.

Braze, brazen, brazen, brazen, perfaining to brass; impudent Brazen, brazen, brach, m op ming; law breaking Bread, bred, n food v ade from flour or meal, Breadth, bred/h, n, nidth.
  Ro
                                                                a corporate town.
  Borrow, bor'o, v to obtain on loan.
Boscade, bos'kad, n. thick woodland.
  Bosh, n nonsense.
                                                                                                                                                                                             Break, brāk, v to snap; to crusl; to tame.
Breakage, brā'kij, n. the action of breaking.
 Bosky, ady woody.
Bosom, booz'um, n. the breast.
                                                                                                                                                                                             Breaker, braker, n. a wave that breaks on the shore.
Breakfast, brek'fust, n. the morning meal.
  Boss, n. manager or foreman.
  Bossy, bos'i, any, knobby.
                                                                                                                                                                                             Breakwater, brak'waw-ter, n. an erection to break the
 Botany, bot'a-m, n the science of plants
                                                                                                                                                                                                        force of water.
Botch, n a swelling; badly performed work.
Both, ady and pron, the two.
Bother, bother, v. to perplex.
Bottle, both, n a vessel for holding liquid
                                                                                                                                                                                             Bream, brein, n a small fresh water fish.

Breast, brest, n the part of the body next below the Breastwork, brest work, n, an eathwork. [neck.
                                                                                                                                                                                              Breath, breth, n. the air passing through the lungs.
  Bottle-holder, botl'hold-er, n. a prize-light official.
                                                                                                                                                                                             Breathe, breth, v. to respire
Bred, v. brought forth; brought up.
Bottom, bottom, or the lowest part.

Bottomy, bottom-ri, n. mortgage of a slap

Soudour, hoo-dwawr', n. a huty private room.

Sough, how, n. a branch of a tree

Bougie, boo'zhe, n. a medical instrument for the-

tending contracting math.
                                                                                                                                                                                             Breech, brech, n. the had part of a thing
Breeches, brechez, n. a garment worn by men on
                                                                                                                                                                                                        the lower limbs.
                                                                                                                                                                                            Breeching, breeding, n part of a horse's harness.
Breeching, breeding, n part of a horse's harness.
Breech-loader, brich'lo-der, n a fire-arm loaded at
Breed, bree, n to generate, to train (the breech.
Breeding, breeding, n the act of producing, bringing
Breece, breez, n a whal,
Brehon, br. then, n a moment frish pulge
 tending contracting parts.

Who dider, (of tree, m a large stone.

Bonlevard, bonflevar, m a pros. made bondered with

Bonlevard, bonflevar, a pros. made bondered with

Bonne, bown, n to rebourd, n, swagger. Trees

Bound, bown, n to kept; held regether; n, lamt.
                                                                                                                                                                                            Brenot, in them, m an ancient rish page
Brethren, in thirten, m, plural of brother
Breatne, briv'et, n, estim rink above an officer's pay,
Brevlary, brev'tara', n, book of the Roman service.
Brevier, brev-er', n, a kent of printing type
Brevity, brev't in, shortness
Brew, broo, n to make a lupior.
Brevity brev'et n, a least breve.
 Boundary, bown'der a, n a defined limit.
Bounden, bown'der, a 'r obogatory.
 Bounty, hown'th, n. dy th.
Bouquet, hooka', n. a bunch of flowers
Boungeois, burjois', n. a kind of printing type
Bourn, bounn, n. a bunct or you.
Bourse, boorse, n. an exchange.
                                                                                                                                                                                            Brewery, brook or make a import.

Bribes, brib, n a corrupt gift.

Bribes, brib, n a corrupt gift.

Brickbat, brifkbat, n, a piece of brick.

Bridal, brifklat, n, a marring.

Bride, brid, n, a wmarring.

Bride, brid, n, a wmarring.

Bride-cake, brid/käk, n, weithing cake.
  Bout, howt, n. a turn or round
  Bonne, bo'vin, ady, connected with cattle.
Bozne, his vin, adv. connected with cattle.
Bow, n. to bend; to summi
Boweis, bow'eiz, n. the cutrals.
Bower, bow'er, n. a shady recess.
Bowlighted, n. a domestic basin; a wooden ball.
Bowling, bo'film, n. a certain slipp's-rope.
Bowspirt, bo'spirt, n. a spar at the head of a ship
Bowstring, bo'string, n. the string of a bow; string
used in Turkey for stranging criminals
Box, boks, n. a tree of very hird wood; a croe
Boxer, boks'er, n. one who boxes with gloves or fists.
Tow, n. a male (blok).
                                                                                                                                                                                             Bridegroom, brid-groom, n. a man about to be or
newly married
                                                                                                                                                                                            or canal
  Boy, n. a male cluld.
Boycott, boy kot, n to refuse dealings with
                                                                                                                                                                                              Bridle, brid'l, n an instrument worn on horses' heads.
                                                                                                                                                                                              Bridoon, brid'oon, st a hight snaffle.
Boycott, buy'kot, n to refuse dealings with. Boyhood, buy'hood, n, the state of lenng a boy. Braccate, brak-āt', any having feathered feet. Brace, brās, n, what draws together; a carpenter's Bracelet, brās'let, n, a wrist ornament Brachial, brās'k-al, any connected with the arm. Bracken, brās'en, n, fern. Bracken, brās'en, n, fern. Bracket, brās'en, d.d., saltish. Bracket, brās'en, and saltish. Bracket, brask'en, n, saltish. Bracket, brask'en, n, saltish. Bracket, brask'en, and saltish.
                                                                                                                                                                                      Brief, tref, n. short; statement of case for counsel.
Brief, tref, n. short; statement of case for counsel.
Brief, tref, n. short; statement of case for counsel.
Brigade, prograde, n. a prockly-threb
geng, brig, n. a two-masted vessel.
Brigade, brig-aid, n. a bob y of troops.
Brigader, brig-aid, n. a robber
Brigand, brig and, shinning, cheerful, lustrous
Bright, brit, and, shinning, cheerful, lustrous
Brill, n. a fish.
Brilliant, bril'yant, adj gluttering, sparkling, splendid;
Brim, n. her brink of a stream or lake; the edge of a
vessel; the run of a hat.
Brimful, brim'food, adj, completely full.
Brimstone, brin'ston, n. sulphur.
Brinne, brin, n. salt w. er.
Brinne, bring, n. short, stif h.
Bristle, bris'ket, n. the part next to the ril
Bristle, bris'ket, n. short, stif h.
Brickle, bris'ket, n. short, stif h.
                                                                                                                                                                                              Brief, bref, n. short; statement of case for counsel.
  Brad, n. a small nat.
  Brag, 7' to boast.
  Braggadocio, brag-ga-dô'si-č, n. a boaster.
 Braggadocu, brag-ga-dó's-f.o., n. a boaster.
Braggart, brag ert, n. a boaster.
Brahmin, bra'min, n. a Hindu pitest.
Brain, bra'n, n. to entre of the nervous system; the
Brain, bra'n, n. the centre of the nervous system; the
Braike, brain, n. a contrivance for slackening the speed
Bramble, brain's, n. a contrivance for slackening the speed
Bramble, brain's, n. a pirckly shrub. [of velucies.
Bran, brain, n. the refuse of grain.
Branchial, braing'kl-al, ady with branches.
Brand, braind, n. a piece of burnt woud; a particular
Brandiah, braind'ish, n. to wave or flourish. [mark.
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Brittle, brit'l, ad/, easily broken, fragile.
Brittleness, brit'd-ness, n. state of being brittle.
Britzka, britz' ka, n. a one-scated Polish carriage of
Britera, brite: ka, n. a one-setted Polish carriage of Sarach broch, n. a bornig instrument; v. to piecree Broad, brawd, ady, wide.

Broadside, brawd'sid, n, the side of a ship; a discharge of guns from the procession of the procession of guns from the procession of guns from the procession of guns from the procession of guns, a figured silk fabric.

Broade, brock'di, n. a two-year-old red deer.

Brogan, bro'gan, n. a thick coarse shoe.

Brouge, brogan, n. a disturbance.

Broadsid, brongsk'dal, ady, relating to the bronchie.

Broadside, brown, n. a small yet copper and un.

Brood, brod, n. a. small stream.

Brood, brook, n. a. small stream.

Broom, brook, n. a. small stream.
                         ar wheels.
 Broom, broom, n. a small stream.

Broom, broom, n. a sweeping implement; the name of Broth, n. thick soup.

[a class of wild shrubs. Brother, brath'er, n. a male of the same parents. Brow, n. the forehead, the ridge over the eyes; the Browbeat, brow'bet, v to buily.

[edge of a hill. Brown, n. a dark redoms bedom:

Brown, n. a dark redoms bedom:

Brownels, brow'hi, n. a Scoth domestic farry.
    Brownist, brown'ist, n an lenglish Independent.
    Brown-study, brown' and'i, a. a dreamy revene
   Browse, browr, v. to feed on leaves or shoots of Bruise, brook, v. to crush. [plants.
   Bruise
   Brume, broom, n. fog.
   Brunette, broo-net', n a dark-comple ned woman.
    Brunt, brunt, n. the speck of contest
    Brush, n. an instrument for dispersing dust, rushwood, brush wood, n a thicket.
   mshwood, brush'waad, n a thicket.
Brussue, Irusk, ang abrugt
Brutslity, brootad'i-ti, n heng brutsl.
Brutslity, brootad'i-ti, n heng brutsl.
Brutslity, brootad'i-ti, n heng brutsl.
Brytony, brit'o-ti, n a he-bre now plant [vulgar.
Brythonic, brit-khon'ik, ang pritamug to Wesh.
Bubble, bub'i, n, an air blad-ler of water, a fraudulent
    Buccancer, buk a-ner', n a poste [scheme Buck, buk, n the male of deer and other animals.]
   Bucket, bak, n the male of deer and other animals, a disking fellow
Bucket, bak'et, n, a vessel for holding water.
Bucklet, bak'et, n, a madd smell or instrument for Buckler, bak'et, n, a small smell thatening things.
Buckler, buk'et, n, a coarse cotton tabric.
Buckler, bak kol's, n, p pertaining to cattle
Bud, n the first shoot of a tree or plant.
    Budge, buj. v to move.
Budget, buj'et, n a collection of things; ministerial financial statement
   finantial statement
Buff, buf, a light yellow colour; a kind of leather
Buffalo, bufa-lo, n a wild ox.
Buffer, buffer, n a contribute for lessening the force
Buffet, buffer, n a blow; n to strike. Jof concussion.
Buffoon, buffeout, n one who makes fuit.
Buffoonery, buf oon'ersi, the practice of fun-inaking.
    Bug, n, a noxious insect.
Bugbear, bug bar, n an object of fright.
   Bugger, bug; bar, n an object of right.

Bugger, bug; n, n inght vehicle.

Bugle, bug; n, n a labri

Buh, boo, n, mland figures in unburmshed gold or

Buhrstone, bur'ston, n, a kind of quartz.

[brass.

Bull, bud; n, one who exicts.

Bull, n a plant with an omon like root.

Bullous, bull/us, adr. bull-like
      Bulge, bull, n. a protuberance
Bullmy, bull-un, n. excessive hunger
Bullmy, buff-int, n excessive number Bulk, n, size, magnitude; the thef part.
Bulkheed, bulk'hêd. n, a partitud m a ship.
Bull, bool, n, the male of the oy.
Bullary, bul'h-n n, a collection of Papal bulls.
Bullet, bool'et, n, a projectile fired from a gun,
Bulletin, bool'et, n, n, official report
Bull-fineh, bool'ensh, n, a kind of singing finch.
Bullon, bool'yun, n, uncomed gold and silver.
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Bulleye, bools'i, s. the centre of a target.
Bully bool'i, s. a blustering ruffian.
Burush, bool'wuh, s. a large rush that grows is
Bulwark, bool'werk, s. a fortification.
Bumper, bunp'er, s. a large glass or cup,
Bumpkin, hump'kin, s. a country clown. Bumpkin, bump'kin, n. a Country clown.

Bumptions, bump'shus, adj. bossful, self-assertive.

Bunch, n. things tied or growing together.

Bunch, n. things tied or growing together.

Bunch, n. things toosely held together

Bungle, bung'h, n. things toosely held together

Bungle, bung'h, n. a climpy blunder.

[storey of

Bungle, bung'h, n. a climpy blunder.

Bungler, bung'her, n. one who bungles.

Bund, n. a sleeping berth.

Bunkum, bunk'um, n. clap-trap.

Bunting, bun'mg, n. clah for Bags.

Buoyancy, bor, n. a floating mark indicating danger to

Buoyancy, bor and, n. power of floating, light

Bur, bur, n. the prickly sped-case of certain plants. Burden, burden, a warming table, a room or department, burden, berden, a warming table, a room or department for business. ment for business. [of business Bureaucracy, bur ok'ras-I, n a centralised sys on Burgess, bur'jess, n an inhabitant of a borough Burgher, burgher, n annacasm of contago Burgher, burgher, n anneas burges. Burghar, burgher, n a housebreaker Burgomaster, burgo-mastr, n, the chief magistrate Burgomaster, burgo-mastr, n. the chief magistration of a German town.

Burial, bêr'i-al, n the act of interment Burke, burk, n to murker by chicking Burlesque, burd-ski, n a come performance Burly, burli, add large, strong, bluff.

Burn, ber, n a small stream: 2, to coust me by for Burnish, burmsh, n to poish.

Burn, ber, same as bur Burn, ber, same as burgur, ber, same as bur Burnish, burmsh, n ground shelter for a male.

Bursar, burs'ar, n tapaurer

Bursary, burs'ar l, n hours, is allowance.

Burst, i to break open saddenly

Burton, burl'en, n various ship tackle: Burton aic.

Bury, ber't, n to mer. 10 h de. 10 causer. Bury, ber't, v. to inter, to h de, to cover. Bush, boosh, n. a thick shrub Bushel, boosh'el, a a measure of eight gallons. Businel, boody'el, n a me cure of eight gallons. Business, boz'nes, n trade, employment. I stays Business, boz'nes, n trade, employment. I stays Busin, n to prepare, n the stni part of a wornan' Busin, n, busin, n, a short boot worn by tragic actors Busin, n, the head and upper part of the human bridy Busin, n, the head and upper part of the human bridy Busin, n, t i z to be bus; n, p, ad worn by lades Busy, boz'l, adp, actively employed. Busy, boz'l, adp, actively employed. Businelph ha t-ladd, n, a medding person, Butcher, booch'er, n one who sloughters animals for Butchery, booch'er, n, slaughter.

Butler, but'ler, n a male servant naving charge comme, take, etc. wine, plate, etc

Butt, n a large cask, n to strike with the head. Butternd, but'end, n. the heavy end.
Butter, but'er, n a substance made from cream c
Butterine, but'er en, n an artificial butter. [chamba] Buttery, but'er-i, n domestic store room Buttress, but'res, n. an outside support to a wai. Butyric, bū-th'ik, adv relating to butter Buxom, buk'som, adv lively, hearty, jolly. Buy, bi, v to purchase Buzz, n, a humming noise
Buzzard, huz-erd, n a bird of prey,
Byre, lur, n a cow-house
Byrs, lur, n, e, fine flax and the fabric made from a By-word, bi-werd, n an object of common remark Byzantine, biz-an'tin, adf relating to Byzantium.

Cab, n a wheeled vehicle.

Cabal, ka-bal', n. a party of secret plotters.

Cabinet, kabl'inet, n small room; private consulting room; a case of drawers; the Cabinet is a body consisting of the chef Munisters.

Cable, kä'll, n a rope or chain.

Cabinose, ka-bons', n. a ship's cooking place.

Cabriolet, kab-ri-o-la', n. a one-horse vehicle.

'dāy; āt; ârm; ēve; ĕlk; thêre; jīce; pīn; machine; bold; pŏt; stôrm; mūte; tǔb; bûra

Cacoo, ka-kā'o, m. a tropical plant bearing seeds from hich cocoa and chocolate are made. Cache, kash, m. a hiding place. Cachezy, ka-kek'si, m. an impoverished body or mind. Cachinastion, kaki-nā'shun, m. loud laughter. Cachinnation, kak-in-ā'shun, n. loud laughter.
Cachou, ka-hoo', n. a sweetmeat. [fowls
Cachele, kak'l. n. peculiar noise made by geese and
Cacoethes, kak-o-ē'/hēz, n. a strong propensity.
Cacography, ka-kòg'raf-i, n. bad spelling.
Cacophony, kak-of'e-in, n. discordant sounds.
Cactus, kak'tus, n. a hard prickly plant.
Cad, kad, n. a low fellow.
Cadaverous, ka-dav'e-in, a /ji. ichly-looking.
Caddie, kad'i, n. a golf attendant.
Caddy, kad'i, n. a small box. Cadole, Rairi, M. a goil attendant.
Cade, kād, M. a Small box.
Cade, kād, M. a barrel.
Cadence, kād, M. a barrel.
Cadence, kād, M. a barrel.
Cadete, kād, M. a barrel.
Cadete, kād, D. a beg.
Cade, kād, J. v. beg.
Cade, kā'dl, M. a Mallommedan judge.
Cadi, kā'dl, M. a Mallommedan judge.
Caducean, kā-dū's-Čan, a J. Jike Mercury's wand.
Caduceous, ka-dū's-Čan, a J. Jike Mercury's wand.
Caducous, ka-dū's-Čan of, stones. Cairn, kā'rn, n. a pile of stones. Cartiff, ka'tiff, n. a low fellow Carole, ka-jol', v. to coax by flattery. Cajolery, ka-jol'eri, n. wheething lunguage.
Cake, kāk, n. bread baked in a small piece; any
flattened small mass. Calamity, kal-an't-ki, n. misfortune
Calash, kal-lash', n a wheeled vehicle with folding top.
Calcareous, kal-ki'resus, adv. continuing chalk.
Calcimine, kal'sl-min, v. to white wish Calculation to charky calculation to charky Calculation kal's-lum, **, the immediate in thirk flowder Calculation, kal's-labl, adv. capable of calculation. Calculator, kal's-kilá for ** concelon Calculator, kal's-kilá for ** calculator, kal Calculus, kal'ku-lus, n. stone , an advanced branch of mathematic Caldron, kawl'dron, n. large kettle for boiling liqui 1. Calendar, kal'en-der, n. table of days, months, etc. Calender, kal'en-der, n. a press for dressing cloth Calends, kal'ends, n. the beginnings of the months Calify, kal, n. a young row.
Calibre, kal'i-ber, n. size, strength.
Calico, kal'i-ka, n. cotton cloth Califycaph, kall-graft, n, a writing machine. Califyraphy, kall-fig fa-ff, n pennanship Calipers, kall-fig-fr, n compasses. Caliphac, kall-fit, n, the office of caliph. Calisthenics, kall-s-t/hen'rks, n, athletics Calisthenics, kal-s-(hen'iks, n. athletics Calk, kawk, n. the point of a horse-shoe; v to fill up. Call, kawl, v to cry out, to pay a short visit, toname. Callobe, kal-co-pe, n. the muse of poetry. Calloes, kal'us, a f unfeelong. Callow, kal'us, a f unfeelong. Callow, kal'us, a f quiet, still. Calomel, kal'us nel, n a compound of mercury and Calomel, kal'us nel, n a compound of mercury and Calomel, kal'us nel, n a compound of mercury and Calome, kal'us nel, n a compound of mercury and Calome, kal'us nel, n a compound of mercury and Calome, kal'us nel, n a compound of mercury and Calome, kal'us nel, n a compound of mercury and Calome, kal'us nel, n a compound of mercury and Calome kal'us nel mercury and calome kalome kal'us nel mercury and calome kalome kalome kalome kalome kalome kalome kalome kalome kalo Caloric, kal'o-rik, n. heat. [chlorinc. Calorife, kal-o-rik, n. heat. Causing heat. Calotype, kal'o-tip, n. a kind of photography. Calumet, k'il' in net, n. the pape of peace. Calumnate, kal-un'infa tor, to slander Calumny, kal'and heat calumeted a kal-un'infa tor, n. a slanderor Calumy, kal'un-inf. n. a slanderous statement Calvinism, kal'un-in, n. a humped Asiatic or African Cambric, kam'et, n. a humped Asiatic or African Cameo, kam'et, n. a humped Asiatic or faminated kam'et, n. a sparatus for t lung photogramsade, kam'et, n. a apparatus for t lung photogramsade, kam'et, n. a fine cloth. [graphs Camounte, kam'et, n. n a piter plant.] Camomile, kam'o-mil, n a bitter plant. Camp, kam'o-mil, n a bitter plant.

Camp, kam, n place where troops pitch their tents.

Campaign, kam-pan'n, n, a plam; military operations.

Campanile, kam-pan-e'lä, n, a bell-tower.

Campanology, k-m-pan-o'o-j', n the art of bell-making, or bell-ringing.

Camp-follower, kam'foll'o-er, n one who folloys an

Camphine, kam-feen', n, rectified oil of turpentine.

Camphorated, kam'for-a-ted, adj. imbued with camphor.

Can, kan, v. to be able; n. a vessel for holding liquids.

Canal, kanal', n. an artificial waterway.

Canard, kanal', n. a false story.

Canard, kanal', n. a yellow bird; canary colour.

Cancel, kan'sel, v. to erase.

Cancellated, kan'sel-ā-ted, adj. reticulated. Cancer, kan'ser, n. a malignant tumour. Candelabrum, kan-del-a'briun, n. frame for branching Candescence, kan-det-a ordin, n. traine for oran Candid, kan'thd, adj. frank; ingenuous. Candidate, kan'dul-åt, n. one who ofters himself. Candle, kand'l, n. a wax or tallow substance with a wick for lighting.

Cane-brake, kan'brak, n. a thicket of canes. Canne, kan-in', adj. relating to the dog.
Canine, kan-in', adj. relating to the dog.
Canister, kan'is-ter, n. a lox of wood or tm.
Canker, kan'is-ter, n. a lox of wood or tm.
Canker, kangk'er-us, adj. cyrroding.
Canker-worm, kangk'er-wenn, n. a worm that cankerCannel, kan'i-d. n. bituminous cod.

[plants] Cannibal, kan'i-bal, u. a savage who cats human fle-h Cannon, kan'on, u. a large war gun Cannonade, kan'o-nad, w. an attack with cannon Cannonade, kan'o-nād, ā. an attack with camon Canny, kan'n, ady shread, knowing Canoe, ka-nov', m. a small bast. Canon, kan'on, n. a church dignitary, a law or regin Canonical, kan-on'ik-al, ady, according to canon. Canonical, kan-on'ik-al, ady, according to canon. Canonical, kin-on'ik-als, n. regulation clerical attire Canonise, kan'on-iz, n to enroll among he saints. Canonical, kan'on-baw, n excels-sistical law. Canon-law, kan'on-baw, n, accels-sistical law. Canon-law, kan'on-baw, n, an excels-sistical law. Canopy, kan'o-p., n an overhead covering Canopy, kan'o-p., n an overhead covering Canorous, kan o'rus, xo'p. musical Cant, kant, n hypocrinical speech Cantaloupe, kan'daloup, n a kind of melon. Cantankerous, k in-tangk'e-i-s, a.o'p. perverse. Cantata, kan t't'u, n, a chor d' composition. Cantieva, Kai (14, 9, 2 con (1 tomposition).

Cantier, kantier, n. a soldier's lavem; a soldier's
Cantier, kantier, n. a soldier's lavem; a soldier's
Cantieries, kantieries, n. spanish files.
Cantiele, kantieries, n. a church song.
Cantiever, kantieries, n. a church song.
Cantiever, kantieries, n. a devision of a poem
Canto, kantie, n. a devision of a poem
Canton, kantien, n. a devision of a poem Cantonment, Lan ton'ment, n troops' quarters. Cantrip, kan'trip, n. a wild antic Canvas, kan'vas, n. a coarse cloth. Canvas, kan'vas, n. a coarse cloth.
Canvass, kan'vas, n. to solich votes; to sift; to disCaoutchoue, kow'tchuk, n. indistribler [cussCapable, ki pi-th, an', possessing ability.
Capacious, ka-pi-shins, an', having capacity of holding
Capacitate, ka-pas't-shi, n. to qualify.
Capa-pie, kap-a-pi-shi, n. an', having capacity of holding
Capa-pie, kap-a-pi-shi, n. an', fron head to foot
Cape, kap', n. a shoulder-covering; a point of land
Caper, kap'er, n. to skip round, n. the pickled bud of
the caper shrub.
Capias, ka'pi-as, n. a writ of arrest.
Capillary, ka-pi'er-f, an', with the fineness of hair
Capital, kap't-al, ndy, chief, principal; n. a chief city
money invested money invested
Capitalise, kapita-litz, v. to convert into capital.
Capitalise, kapita-litz, v. to convert into capital.
Capitalise, kapita-litz, v. one who owns capital.
Capitalise, kapita-litz, v. one who owns capital.
Capitalon, kapita-litum, v. the numbering of heads
Capitalon, kapita-litum, v. the temple of Jupiter at Rome;
the Congress house in the United States.
Capitulare, kapitu-latz, v. a statute of an ecclesiastical
chapiter; a member of chapter.
Capitulare, kapitu-latz, v. to yield.
Capon, kapon, v. a young castented co.k.
Capite, kapitali, v. a changeful model
Capitalis, kapitalis, v. an apparatus for winding cable.
Capitalis, kapitalis, v. an apparatus for winding cable.
Capitalis, kapitalis, v. ascod vessel.
Capitalis, kapitalis, v. a cheef officer.
Capitalis, kapitalis, v. a cheef officer.
Capitalis, kapitalis, v. an arrest.
Capitons, kapitalis, v. an arrest.
Capitons, kapishus, adp. critical. money invested

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Captivate, kap'ti-vāt, v. to fascinate; to subdue.
    Captive, kap tiv, n. a prisoner.
Captive, kap tiv, n. a prisoner.
Captive, kap tiv, n. an arrest.
Captive, kap tiv, n. an arrest.
Captichis, knp u-chin', n. a Franciscan monk.
Caracole, kar'd-kôl, a lynx.
        Carafe, ka-raf', n. a water bottle.
        Caramel, kar'a-mel, n. hurnt sugar.
                                                                                                                                                                                                                                                         [pure gold.
        Carat, kar'at, n. a weight of four grains: 1-24th part of
 Carel, kar'at, n. a weight of four grams: 1-24th part or Carevan, kar'a-wan, n. a company of travellers. Caravansary, kar-a-wan'ser-l. n. a rude wayside inn. Caraway, kar'a-wa, n. an aromatic plant. Carbazotic, kar'a-wa, n. an aromatic plant. Carbazotic, kar'bin, n. a short musket. [and azote Carbon, kar'bin, n. an element of which charcoal is a pure a-xamble.]
                             pure example.
   Carbonise, karboniz, v. to make into curbon.
Carbonise, karbon, n. a glass bottle in frame
Carbuncle, karbunggf, n a bught red precious stone.
Carcass, karkas, n. a dead body.
 Card, kard, n. a piece of pasteloard; n to comb. Card, kard, n. a piece of pasteloard; n to comb. Cardiac, kardiak, an pertanning to the heart. Cardinal, kardinal, an principal; n a diguitary of the Church of Rome; an American bird.
the Church of Rome; an American bird. Care, kir, m. anxiety; responsibility Careen, ka-ren, z. to move a sing on to her side. Career, ka-ren, z. to move a sing on to her side. Carees, ka-ren, z. to fondle. [rapidly. Caret, ka'ren, z. a sign denoting a word left out. Cargo, kir'go, n. freight.
Caricature, kar'k-at-ur, n an exaggerated likeness. Carillon, kar'h-a, n. decayed bone.
Carillon, kar'h-a, n. chinne of bells.
Carinate, kar'h-a, z. de, keel-shared.
Carillon, kar'n-on, n, chune of bells, Carinate, kar'n-oñ, and, keel-shaped, Cariole, kar'n-oñ, and, keel-shaped, Cariole, kar'n-oñ, and decayed Carmelite, kâr-n-oñ, n, cambon colour. Carinage, kâr'n-oñ, n, shaughter Carina, kâr'n-oñ, n, shaughter Carina, kâr'n-oñ, n, shaughter Carina, kâr'n-oñ, n, shaughter Carina, kâr'n-oñ, shaughter Carina, kâr'n-oñ, shaughter Carina, kâr'n-oñ, shaughter Carina, kâr-n-oñ, shaughter Carina, kâr-n-oñ, shaughter Carina, kâr-n-oñ, n, n fine chalectiony. [colour. Carinage, kâr'n-oñ, n, open-air revelry.]
 Carnivorus, kar nivan, n. openair revery
Carnivorus, kar.nivenus, ady, flesh-cating.
Carolid, karolid, ady, pertaining to the arteries of
Carousal, karonizal, n a drinking bout. [the neck.
Carotid, ka-roi'al, adj. pertanning to the arteries of Carousal, ko-roo'zal, n a drinking bout. [the neck. Carouse, ko-roo'zal, n a drinking bout. [the neck. Carouse, ko-roo'zal, n a newhor in timber for Carp, karp, v. to cavil i.n. a common fish. [buildings. Carpenter, kar'pen-ter, n, as worker in timber for Carriage, karl, n, a which is behaviour. Carrier, kar'lor, n, one who conveys goods for the Carrion, kar'ot, n, an edible root.

Cart, kar', n, an edible root.

Cart, kar', n, a pringless two-wheeled vehicle.

Carte, kart, n, a card

Carte, kart, n, a card

Carte-da-niche, kirt-liabach', n, blank paper; freedom to do what one pleases.

Cartede-visite, kart (e-vis-či', n, a small photo-Cartel, kart'el, n a challenge [graph Cartesian, kart-čez'yan, nd'] relating to the philisophy Cartillage, kar'ti-da, n, grastle

Cartouchy, kart-cos'r, n, a cartidge case

Cartigraphy, kart-og'raid, n the science of map mak-Cartoon, kart-toon', n, a lange-ketch or design. [ing. Cartouche, kart-ons', n, a cartidge case

Cartigle, kar'til, n, a paper-covered charge for Cartingle, kart-ons', n, a fishy excrescence. [gun. Carve, karv, v, to cut.

Casea, kas, n, a loos. [hardening to malleable fron. Casebarten, ka's harden, v, to give a steel surface
   Cascade, kāykad, n. a watertati.
Case, kās, n. a lox. [hurdening to malleshle fron.
Case-kaife, kāg harden, v. to give a steel surface
Case-kaife, kāg harden, v. to give a steel surface
Case-kaife, kāg harden, v. a kuide kept na case.
Casemate, kās māt, n. a komb proof chamber.
Casemat, kās-emri, n. window game.
Casem, ka-semri, n. jown lodging, for troops.
    Cash, kash, n money.

Cashier, kash-er, n. a cash-keeper; n. to dismiss.

Cashmere, kash-mer, n. cloth made from Gashmere

Casing, kits'mg, n. covering

[goat's wool.

Casino, kas-e'no, n. a public assembly room.
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Cask, cask, n. a small barrel.
Casker, kas'ket, n. a small case.
Cassation, kasa'shun, n. the act of nullifying.
Cassation barren.
    Cassia, kas'ya, n. a plant.
Cassimere, kas-I-mer', n. fine twilled cloth.
Cassock, kas'ok, n. a black clerical robe.
    Cast, kast, v. to throw or fling.

Castanet, kast-a-net', n. a time-tapping instrument held in the hand by dancers.

Caste, kavt, n. class distinction.
 Castel, kavi, n class distinction.

Castellan, kast'el-an, n. the governor of a castle.

Castellated, kast'el-a-grd, adv. castle-like.

Caster, kavi'er, n. a simall wheel on he go of furniture.

Castigate, kast'ir-gāt, v. to beat; to classifee.

Castigaten, kast'ir-gāt, v. to beat; to classifee.

Castigation, kast-lig-sisum, n. the act of castigating

Casting-vote, kast'ing-sôt, n. a charman's deciding
                 vote when other votes are equal.
  Castle, kas'l, n. a fortified mansion.
    Castrametation, kas tra-me-ta'shun, a camping.
  Castrate, kas'-trât, v. to deprive of generative power.
Casual, kazh'ū-al, ady. occasional, accidental.
  Casualty, kas'ū-al-ti, n. an accident.
Casuist, kaz'ū-ist, n. a student of conscience.
  Casuistry, kaz'u-is-tri, u, the science of conscience.
Casuskry, kaz'u-is-tri, n. the science of conscience. Cat, kat, n. domestic animal. Cataclyam, kat'a-kinsin, n. a debuge; a revolution. Catacomb, kat'a-kinsin, n. a debuge; a revolution. Catacomb, kat'a-kinsin, n. a subternation burying place Catacoustics, kat-a-koo's-tiks, n. the science of echoes Cataclaque, kat'a-lep-si, n. an arrophy of the limbs. Catalogue, kat'a-lep-si, n. an arrophy of the limbs. Catalogue, kat'a-lep-si, n. a poultice. Cataplasm, kat'a-lepasin, n. a poultice. Cataplasm, kat'a-pult, n. an apparatus for throwing stones arrows etc.
 stones, arrows, etc.
Cataract, kat'd råkt, n. a great waterfall.
Catarni, da'dr', n. discherge of mucus,
Catastrophe, kä-tas'tro fi, n. a calamity.
  Catch, katch, w to seis; to chitch; to overtake; n a
 Carcin, katch, w to Seiss; to Chitch; to overtake; n a triping song for several voices. Ioffered for sele Catchipenny, katch'pen-l, n. something worthless Catchip, katch'up, n. a flavouring sance; also ketchip. Catch-word, katch'werd, n an off-repeated word. Catechetical, kat-kleet'k-al, ad/, pertaining to cate Catechies, kat-kleet'k-al, ad/, pertaining to cate Catechies, kat-kleet'k-al, ad/, pertaining to cate Catechies, kat-kleet'k-n, to question.
  Catechism, kat'l-khon, n. a religious summary.
Catechu, kat'e-khoo, n. a substance obtained from trees and used in tanning
  Catechamen, kat-eku'inen, n. one who is taught the principles of Christianity.

Categorical, yat-e-gorik-al, adj. positive.

Category, kaiti-gori, n. a class or order.

Catena, kait-gori, a connected series.
  Catena, kat-e'ra, n a connected senes.

Catenary, kat-e'nart, ant. cham-like.

Cater, ka'ter, v to provide for.

Caterpillar, kat'er-piller, n a grub.

Caterwaul, kat'er-way, n a cat's cry.

Catfish, kat'sih, n a large set his.

Catgut, kat'gut, n string made from animals' hites-

Catharic, kath-art'ik, ant, purgative

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Catharic katharic, and purgative

Catharic katharic, and purgative

Catharic katharic and purgative catharics.
    is attached. [to Roman Catholics. Catholics, karh'o-lik, adj general, orthodox; relating Catholicism, karh-ol'is-izm, n. universality; Roman
                   Catholic doctrine.
   Catholicity, kath-o-lis'it-i, n. liberality of view,
Catholicon, kath-o-l'ik-on, n. a general remedy,
Catkin, kat'kin, n. a tuft of small unisexual flowers
    Catseye, kats'i, a species of quartz.
  Catspaw, Ast's jaw, n. a dupe.
Catspaw, Ast's jaw, n. a dupe.
Cattle, kat'l, n. animals of justure.
Caucus, kaw'kus, n. a private political body
Caudal, kaw'dial, ad, pertaining to the tail.
Caudle, kaw'dl, n. a spiced drink.
Caul, kaw'd, n. a membrane covering the head of some
children when hom.
   children when born.
Cauliflower, kaw'li-flowr, n a kind of cabbage.
Cauline, kaw'lin, adj. from the stem.
Causality, kiwz-a'i-ii, n the working of a cause
Causate, kawz'ati, adj. expressing cause.
Cause, kawz, n motive; lawsuit.
Causeway, kawz'wi, n a raised pathway.
Causet, kaws'tik, adj. burning.
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Cauterize, kaw'ter-iz, v. to burn with caustic.
Cautery, kaw'ter-i, v. a burning with caustic.
Caution, kaw'shiin, v. heedfulness.
     Caution, Raw'snin, n. heedfulness.
Cautions, kaw'snins, ad, wary.
Cavalcade, kaw'al-kād, n. a procession of people on
Cavalier, kaw'āl-rī, n. one in attendance on a Luty; a
Cavalry, kaw'āl-rī, n. horse soldiers.
Cave, kāv, n. an underground opening.
Cave, kāv'v-at, n. a formal notice.
Cavern, kaw'ern, n. a hollow in the ground; a cave.
Cavern, kaw'ern, n. a hollow in the ground; a
 Cavern, kav'ern, n. a hollow in the ground; a cave. Cavernous, kav'ernus, adj. hollow. Cavernous, kav'ernus, adj. hollow. Caviare, kav'ern. hood made from salted roes. Cavil, kav'il, v. to make trifling: bjections. Caw, kaw, n. the cry of a crow. Cayenne, kā-en' n. red pepper Cazique, ka-ex' n. red pepper Cazique, ka-ex' n. n. a hidian chief. Cesse, söc, v. to stop. Cesseless, söc'ive, adj. without ceasing. Cede, söd, v. to yield. Cedilla, so-du'a, n. a mark under the letter e, to incertate, söc'irat, n. citron. [dicate the soft sound. Celiung, söc'ing, n. the roof of a room. Celandine, soc'andin, n. swallow.wort. Celebiant, se'e-brat, v. to commemorate. Celebrity, sel-clivit, v. to commemorate. Celebrity, sel-clivit, n. same: an emment person. Celebrity, sel-clivit, n. switness.
 Celebrity, sel-ol'ri-tl, n. fame: an emment person.
Celerry, sel-or'i-tl, n. switness.
Celery, sel-or'i-tl, n. switness.
Celestial, sel-ost'f-ai, adr. heavenly.
Celestial, sel-ost-f-ai, adr. heavenly.
Celestine, sel-ost-f, n. a mmeral.
Celibacy, sel'-ba-d, n. the unmarried state.
Celi, sel, n., a small room, a small hollow place.
Cellar, sel'ar, n. a room below the ground floor.
Cellaria, sel'ar, n. a room below the ground floor.
Cellular, sel'ar, n. a containing cells.
Cellular, sel'd-led, n. an elastic material brained from pyroc.tlin.
Celt, n. one of a primitive race gow represented by the
     Celt, n. one of a primitive race gow represented by the
Bretons, the Welsh, the Irish, and the Scotch
Highlanders.
Highlanders. Celtic, soft!k, adj. according to Celtic customs. Cement, se-ment! n. cohester substance. Cemetery, semf-ice-l, n. burying ground. [where. Cenacle, sen'ak!, n a supper-room. Cenacle, sen'ak!, n a supper-room. Cenaclaph, sen'o-laf, n. monument to one buried else-Censer, sen'ser, n. pan in which incense is burnt. Censor, sen'ser, n. one who examines books, plays, or p-t-pers, for the protection of public morals. Censoi ious, sen-so'ri-us, adj. expressing censure. Censuralse, sens'ur-sh, adj. blameworthy. Censure, sens'ur, n. blame Census, sen'us, n. the numbering of the people.
   Census, sendus, n. the numbering of the people.
Centaur, senduavr, n. a mythological monster, with a man's head and a beast's body.
   Centerfary, sen'tin-år-I, n, a hundred.
Centennial, sen-ten'i-al, ag. hundredth anniversary.
Centesmal, sen-te-(fi-mal, ag.), hundredth.
Centifolius, sen-ti-fö'll-us, ag.; hundred-leaved.
     Centigrade, sen'ti-grad, adj. possessed of a hundred
 degrees.
Central, sen'tral, adj. pertaining to the centre.
Centralisation, sen-tral-i-za'shun, n. concentration of leovernment,
 Central Satisfies, Sentral 1-22 and M. Contentation of Centre, Sen'tr, n. the middle. Igovernment. Centrifugal, sen-trifugal, adj. tending from centre. Centripetal, sen-trip'ft-al, adj. with a force impelling
centrewards. pl. add. hundredfold.
Centurion, scn-tu'ri-on, n. the captain of a Roman
Century, sent'u-ri, n. a hundred.
Cephalic, se-fail'k, add, pertanning to the head.
Ceraccous, ser-ā'slius, add, wax-like.
Ceramics, ser-am'iks, hue pottery.
Ceramics, sor-am'iks, hue pottery.
Ceramics, sor-am'iks, hue pottery.
Cerate, se'-rit, n. a waxy compound.
Cereal, se'-re-al, add, relating to fine p-stery.
Cerebration, ver-e-bra'shun, n. brain-action.
Cerebration, ver-e-bra'shun, n. brain-action.
Ceremonious, ser-e-mo'ni-us, add, with ceremony.
Ceremonious, ser-e-mo'ni-us, add, with ceremony.
Ceremony, ser'e-mund, n. a formal rite or function.
Ceregraphy, ser-e-mo'ni-us, n. a formal rite or function.
Ceregraphy, ser-ografi, n. he art of writing on wax.
                          centrewards.
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Certain, ser'tin, adj. sure.
     Certainty, ser'tin-if, n. fixed state: without doubt.
Certificate, ser-tiff-kāt, n. written proof. [writing.
Certify, ser'ti-fi, v. to make known; to declare: y
Certiorari, ser-she-o-tā'ri, n. writ for remova' of pro-
Certiforari, ser-she-o-rā'ri, n. writ for remova' of proceedings to a higher court.

Certifude, ser'titid, n. certuinty,
Cerulean, ser'di'lean, adi, dark blue.

Cervical, ser'tik-al, adi, buriy, tuffy,
Cessitous, ses'pit-us, adi, turfy, tuffy,
Cessitous, ses'shim, n. cassing,
Cession, sesh'un, n. a giving up.
Cession, sesh'un, n. a giving up.
Cession, sesh'un, n. a pool in which drainage matters
Cesure, se'zur, n. a breaking off. [are collected.
Chaceanne, shak-ou', n. an old slow dance.
Chafe, chaf, v. to rub against.
Chaffe, chaf, n. husk: badinage.
Chaffer, chaf'er, v. to bargain.
Chaffer, chaf'er, v. to bargain.
Chaffer, shak-feri, n. a heated metal dish in which hot viands are served.

Chafrin, shagren', n. annoyance, vexation.
   which not vanus are served.

Chagrin, sha-gren', n. annoyance, vexation.

Chain, chin, n. a connection of links; a train of

Chan, chin, n. a seaf for one purson.

[events.

Chairman, charman, n. a presiding officer; one who
   Chairman, Char man, n. a processing pressiles at a meeting.
Chaise, shāz, n. a lught open vehicle.
Chaicedony, kal-sedo-on, n. a mneeral of the quarta
Chaidron, chawl'dron, n. a measure of 30 bushels.
 Chaldron, chawfdron, n, a measure of 30 bushels. Chalce, chal's, n, a cup.
Challenge, chal'en, n, to defy, to invite to a contest. Challengeable, chal'ni, ab, adf, in state to be chalchalybeate, kal-b'e-si, adf, contaming non. [lenged. Chamber, chām'ber, n, an upper room. Chamberlam, chām'ber-lin, n, an offic er of state. Chambermand, chām'ber-lin, n, a bedroom servant. Chambern, kam-e'lenn, n, a larard that changes its Chamfer, cham'fer, n, a bowle.

Chamber, cham'fer, n, a bowle, d'aptelone.
   Chamois, sha-moi', n. a kind of antelope.
Chamomile, kani'o-mil, n a bitter plant.
 Champonie, Kain O-min, w a Datter Peans.
Champ, A. to chew.
Champagne, sham-pain', n. a sparking French wine.
Champaign, sham-pain', n. open country.
Champion, cham'plon, n. a defender; a contestant who has defeated all others of the same class.
 who has defeated all others of the same class Chancel, chan'sel, n. the eastern part of a church. Chancellor, chan'sel-r, m. a high court. Chancery, chan'ser-I, m. a high court. Chandeler, shan-de-ler, m. a branching framework Chandler, chand'ler, m. a general dealer. [for high change, chan', m. alteration; petty cash; m. to alter; Changeable, chan'nab, m. fickle. [for exchange-thangeling, chan', im, m. a child changed for another. Channel, chan', m. a passage; sea current, strait. Chanticleer, chan'ti-kler, m. a cock. Chaos, k'os, m. con'tisson.
   Chaos, kā'os, n. confusion.
Chaotic, kā-ot'ık, adı, confused.
Chap, chap, v. to crack.
 Chape, chap, v. to crack.
Chapele, chap'el, n. a place of worship.
Chaperon, shap'el-ro, n. one who protects a lady.
Chapiter, chap'l-ter, n the head of a column.
Chaplain, chap'in, n. a clergyman appointed to special
Chapman, chap'ten, n. a devision of a book.
Chapter, chap'ter, n. a division of a book.
Char, char, n. a small fish.
Character, kar'ak-ter, n. a sign or distinctive mark;
moral qualities.
   moral qualities.
Characterize, kar'ak-ter-īz, v. to describe by special
Characte, sha-rād', w. a kınd of rıddle.
[qualities
Charcoal, chār'-kōi, w. charred wood.
Charcoal, chār'.köl, n. charred wood.
Charge, chāry, v. to accuse; to set a price
Chargeable, chāry'abl, adj. liable to be charged.
Chargeases, chāry'ess, adj. whout charge.
Charger, chāry'er, n. a war horse.
Charly, chār'ib, adj. warily.
Chariot, chār'ib, adj. warily.
Chariot, chār'ib, adj. benevplent.
Charitty, chār'ib, adj. benevplent.
Charitty, chār'ib, adj. benevplent.
Charitty, shār'ib, ad, adj. benevplent.
Charitata, shār'ib-tan, n. aquack: a pretender.
Charlatary, shār'ib-tan, n. a quack: a pretender.
Charlatary, shār'ib-tan-tī, n. pretence.
Charm, chārm, n. fascmation; v. to fascinate.
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Chirre chirp, m. a bird-note.
Chirre chirp, m. a bird-note.
Chirre chirp, m. a sound made by birds and insects, Chisel, chiz'l, m. an iron or steel tool.
Citt, chir, m. a babe.
Chivalrous, shiv'al-rus, adj. gallant.
Chivalry, shiv'al-ru, m. the feudal knighthood system;
Chive, chiv, m. a small bulb. [courtesy.
Chioral, klo'rial, m. a colourless oily liquid.
Chiorate, klo'ria, m. an acid salt.
Chiorate, klo'rin, m. a kind of gas.
Chiorine, klo'rin, m. a kind of gas.
Chiorine, klo'rin, m. a soft green nuneral.
Chioroform, klo'ro-forgu, m. a volattle liquid used as an chiorosis, klo-ro'sis, m. green sickness. [anæsthetic Chocolate, chok'o-lat, m. a preparation made from cacac Choice, chois, adj. select. [sceds. Choic, kwi. m. a lordy of singers.
Choke, cliok, v. to throttle or obstruct.
Choke-cliok, v. to throttle or obstruct. Charnel-house, châr nel hows, s. a place for the bones Charmel-nouse, char nei-nows, s. a place for the one-Chart, chart, s. a map of the seal. [of the dead. Chartier, chartier, s. a deed conferring rights. Chartier, chartier, s. one who professes chartism. Chartwoman, chartwooman, s. a woman hired by the Chary, chart, adv. cautious. [day for domestic work. Chase, chas, s. a vehicle; v. to pursue; to hunt. Chaste, kazm, w. a cleft.
Chaste, chist, ad/, pure; virtuous.
Chasten, chās'n, w to punish; to purify.
Chastlee, chas'-tiz, v. to punish. Chastie, chas'-tit, v. to punish.
Chastiv, chas'-tit, v. purity.
Chastuble, char'u-bl, v. an ecclesiastical vestment.
Chat, chat, v. to talk; v. titl.
Chateau, shar'o, v. a castle.
Chatelain, shar'o-lin, v. a lady's chain ornament
Chattel, char'u, v. properti diy; v. idle talk.
Chatty, char't, ad, talkative.
Chaufeur, sho'en-v. v. a motor-car driver.
Chaufeur, sho'en-v. v. a motor-car driver.
Chaufeur, the direction, v. extravagant patnotism.
Cheap, chep, ad/i, inexpensive.
Cheat, chet, v. to deceive; to defraud. Choke, chok, w. to throttle or obstruct.
Choke-damp, chok/damp, n. gas which accumulates.
Cholers, kol'er, n. anger. bile.
Cholers, kol'er-a, n. an infectious disease.
Choleric, kol'er-ik, ad, pagry; petuiant.
Chop, chop, n. to cut suddenly; n a pace of meat.
Choral, kor'al, ad, pertaining to a chorus.
Chord, kord, n. union of sounds
Chorster, kor'ister, n. a niember of a chorus.
Chorus, kor'us, n. a company of singers; a piece of
Chouse, chow, v. to cheat.

[music sung h unson
Chowder, chow'der, n a compounded inst and biscuits
Christmathy, kres-toni'a-/fit, n. selections from
Chrism, kram, n. holy oil.
[Grosgn languages.
Christen, kris'en, v. to baptire.
Christen, kris'en, v. to baptire. Cheat, chet, as, hexpensive.
Cheat, chet, v. to dec uve: to defraud.
Check, chek, v. to restrain.
Checkers, chek'ev, v. to variegate.
Checkers, chek'ev, v. to variegate.
Checkers, chek'evz, v. game of draughts.
Check, diek, m. side of face; impudence.
Check, clek, m. side of face; impudence. Cheektooth, chek'roozh, n. a molar.
Cheer, cher, n. comfort, guod things; meat and driak;
Cheer, cher, n. comfort, guod things; meat and driak;
Cheerla, cher'ini, ad' lively. [v. to comfort.
Cheerless, cher'ies, ad' gloomy.
Cheese, chez, n. food made from curded milk.
Chefi, shef, n. a head cook.
Chemical, kent'is-al, ad' relating to chemistry
Chemiste, shemier', n. a woman's undergarment
Chemistry, kent'is-tri, n. the science of substances.
Chegue, chek, n. an order on a bank.
Cherryh, cher'ish, v. to treat kindly; to mourish.
Cheroot, sho-root', n. a cigar without point.
Cherry, cher'l, n. a fruit.
Chersonese, ker'so-nöz, n. a peninsula.
Cherub, cher'ush, n. a winged spint.
Cherub, cher'ush, n. a winged spint.
Cherubm, cher'ush, n. angelic.
Cherubm, cher'ush, n. angelic.
Cherubm, cher'ush, n. a large box; the thoras.
Chestunt, cher mit, n. a forest tree; the init the reof Cheektooth, chek'tooth, n. a molar. Christendom, kris'en-dom, n, the regions where Class tanny prevails.

Christian kristfan, n. a behever in Christ.

Christian kristfan, n. a behever in Christ. Christmas box, kris'mas-boks, n. a Christmas present. Christmas Dox, knismas-doks, n. a anismas present. Chromatic, kre-matik, a.d. perturing to color. Chromate, kre'mit, n. a mineral compound. Chromo-lithograph, kno-mo-lid/co-kraf, n. a lithograph in colours.
Chromic, knotik, a.d. lasting; deep-seated.
Chromick, knotik, n. a accord.
Chromological, kno-no-hyik al, ad, m or ler of time throughout knowled on un the expense of time. Chronologycal, kron-o-by'tk al, ad/ m or ler of time Chronology, kron-o-by'tk al, ad/ m or ler of time. Chrononcere, kron-om'e-ter, n a time-meas ang m Chrysain, kris'a-h, n, the pupa of insects, farmer ', Chrysanthemam, kris-an'die-mum, n a genus of large flower up plants.
Chrysolite, kris o-lit, n a precious stone.
Chub, n, a susual plump river fish.
Chubby, chub t, ad; short and plump.
Chuck, n the chuck of a hen
Chuckle, chuck'i, n a los laugh, the cry of a hen. Chest, cnest, n. a large box; the thorax.
Chestour, clieving, n. a forest tree; the unit thereof
Cheval-glass, she-val'glas, n. a large mirror on a
Chevaler, she-va-ler', n. a cavaler
Cheveil, chev'er il, n. a kind or kid-skin leather
Chevot, chev'l-ot, n. a kind or kid-skin leather
Chevot, chev'l-ot, n. a kind or kid-skin leather
Chevot, choo, r. to mr-sheate
Chiaro-oscuro, kyar'os-ku'ro, n. light and shade.
Chicane, she-kair', v. to trick.
Chicanery, she-ka'rer-i, n. trekery.
Chicken, chife'en, n. a young foul.
Clude, chid, n. to censure: to banne
Chieftain, chef'en, n. the head of a dan. Chuffy, thuf i, ady, surly. Chum, thum, n a commade. Chicken, chik'en, m. a young fowl.
Clude, chid, v. to censure: to blame
Chieffain, cheften, n. the head of a cha.
Chiffonier, shi-o-nër, n. a decorater cupboard.
Chiffond, n. chiffond, n. mfaucy
Chiff, chid, n. a son of daughter.
Chidd-s-play, chiffond, n. mfaucy
Chiff, chid, n. coldiers; v. to deptess.
Chime, chim, n. the sound of leclis.
Chimeria, kim-e'ra, n. a fabulous murster.
Chimerical, kim-e'rka, n. a fabulous murster.
Chimerical, kim-e'rka, n. a channel for letting out smoke.
Chima, chi'na, n. porcelsin.
Chimoney, chim'na, n. a channel for letting out smoke.
China, chi'na, n. porcelsin.
Chino, chin, chirkof, n. whoeping-cough
Chine, chin, n. the spine.
Chino, chin, n. the spine.
Chino, chin, n. to spine.
Chino, the spine.
Chirographer, ki-rog'ra-fer, n. a publessor of writing.
Chirographer, ki-rog'ra-fer, n. a publessor of writing.
Chirographer, ki-rog'ra-fer, n. a thiker by hand-signs.
Chirologist, ki-rof'-bjet, n. a talker by hand-signs.
Chirology, ki-rof'-bjet, n. a talker by hand-signs.
Chiropany, ki-rog-fish, n. a talker by hand-signs.
Chiropany, ki-rog-nish, n. a hand and foot doctor.
day: at: 2 frm: eve: clk: there: eve: Chum, 'chum, 'r a countade.
Chumb, chump, r an ead of wood.
Chumb, chump, r an ead of wood.
Chumb, chumb, r, a short the k piece.
Church, church, r, a nedifice devoted to worship.
Churchwarden, church want den, r a church official
Churl, churl, r a clown, a rude fellow.
Churlish, churlish, adj rude.
Churlish, churlish, adj rude.
Churlish, churlish, adj rude.
Churlish, churlish, adj rude.
Churlish, chur, r, a fluid drawn from food while in the
Chyme, kin, r, food pulp in the stomach [intestineCicatrise, sik'-kriz, r, to ad the formation of a cic
Cicatris, sik'-kriz, r, a scar over a wound.
Cicerone, clinch-er-o'rit, r a guide.
Cider, sicht, r, a fluid character from apples Cider, si-der, u. a beverage made from apples Cigar, si-gar, u. tobacco leaves rolled for smoking Cigarette, sig-ar-et', u. tobacco enclosed in paper for smoku smoking.

Glilary, sil'-a-l', ad/ pertaining to the eyes.

Clilice, sil'is, n hair-cloth.

Cimolite, sin'is, n hair-cloth.

Cimolite, sin'o-lit, n a kind of clay.

Cincture, singk'tur, n, a girdle.

Cinder, sin'der, n, refuse of burned coal.

Cinematograph, sin-enul'ograf, n an apparatus for exhibiting "animated photographs"

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Cinerary, sin'erarl, adj. relating to ashes.
Cingaleae, sing'ga-lez, n. native of Ceylon.
Cingaleae, sing'ga-lez, n. native of Ceylon.
Cingamon, sin'a-mon, n. a spice. Ipetaleo flower.
Cingaweful, sin'a-mon, n. a spice. Ipetaleo flower.
Cingaweful, sin'a-mon, n. a spice. Ipetaleo flower.
Cipher, si-len, n. in arithmetic o: nothing.
Circulae, sir's-n. ad, ad, rolled from apex to base.
Circle, sir's!, n. within a circumference; v. to move
Circle, sir's!, n. within a circumference; v. to move
Circulae, sir's-lia, v. and roundabout.
Circulaet, sir'kit, n. a district.
Circulaer, sir'kit, n. ad, round ; n. a note sent round.
Circulaer, sir'kit, n. ad, round; n. a note sent round.
Circulaer, sir'kit, n. v. to spread.
Circumfulent, sir-kum-am'-bi-ent, ad, going round.
Circumference, sir-kum-sir, v. to cut of the foreskin.
Circumfluent, sir-kum-fles, n. sound sign over a
Circumfluent, sir-kum-fles, n. sound sign over a
Circumfluent, sir-kum-fles, n. sound sign over a
Circumstantials, sir-kum-lo-ku'shun, n. roundabout.
Circumstantials, sir-kum-stan'shal, sin incidentals.
Circumstantials, sir-kum-stan'shal, n. incidentals.
Circumstantials, sir-kum-stan'shal, n. incidentals.
Circumstantials, sir-kum-stan'shal, n. incidentals.
Circumstantials, sir-kum-stan'shal, n. a surrounding
wall.
Circumvent, sir-kum-vent', v. to deceive; to outwit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Classic, klas'fk, adi. pertaining to the ancient literature of Greece and Rome: of the best literature. Classification, klas'-ft. v. of a range according to classes. Clastic, klas'-ft. v. o a rrange according to classes. Clatter, klas'-ft. v. o a range according to classes. Clatter, klas'-ft. v. a rattling noise.

Clause, klav, v. a paragraph.

Clausei, klav, v. a paragraph.

Clausei, klav, v. a paragraph.

Clavicie, klav'tit, v. the collar-tone.

Clausei, klav, v. the make or covered with clay.

Cleane, klen, v. to make clean.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cleans, klen, a.q. tree from dirk.
Cleanse, klens, v. to make clean.
Clearance, kler'ans, n. the act of clearance or removal.
Clearing, kler'ing, n. land cleared from wood.
Clearing-house, kler'ing-hows, n. a place of banking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clearing-house, klering-hows, n. a place of banking or business exchange.

Cleavage, klerin, n. a breakage in rocky stratn.

Cleava, klev, n. to hold fast to; to separate by force Cleaver, kleven, n. one who cleaves; a butcher's Clef, klef, n. a musical sign.

Cleft, kleft, n. a crack; a fissure.

Clegt, kleg n. the horse-fly.

Clementy, klem'en-st, n. leniency.

Clementy, klem'en-st, n. heniency.

Clement, klem'en-st, n. the upper row of windows in the nave of churches.

Clergy, klef'st. n. ministers of a church.
   wall.

Circumvent, sir-kum-vent', v. to deceive: to outwit.

Circus, sir-kus, v., a circular building for entertain-
Circus, sir-kus, v., woolly clouds.

Cisalpine, sis-al-jni, ad', on this side of Alps.

Cisatiantic, sis-al-lant'ik, ad', on this side the Atlantic.

Cist, sist, v. a stone tomb.

Cistercian, sis-ter'si-an, v. an order of monks.

Cistern, vistrem, v. a receptacle for water.

Citacle, sit'sidel, v. a city fortress.

Citation, si-ta'shun, v. a sumn ns; a quotation.

Citte, sit, v. to quote; to summon.

Cittzen, sit'i-zen, v. a resident of a city.

Citrate, sit'rit, v. a salt.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Clergy, kerff, n. ministers of a church.
Clergyman, kelf-hunn, n. a church minister.
Clerical, kler/k-al, adj. connected with clerking
Clerk, klark, n. a clergyman; a person employed in
Clerer, klyer, adj. able; skliful.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Clerk, klárk, n. a clergyman; a person employed in Clever, kléver, adj. abe; skilful. [an office. Clew (see Clue).
Clew (see Clue). [festional man acts. Climatteric, kli-mak'ter-fk, n. a critical time. Climatte, kli-mak, n. atmospheric condition. Climatte, kli-mak, n. atmospheric condition. Climatte, kli-mat, n. atmospheric condition. Climate, kli-mat, n. atmospheric condition. Climate, kli-mat, n. acupitation. Climate, kli-mat, n. acupitation. Climb, klim, v. to ascend. Climb, klim, v. to ascend. Climb, klim, v. to ascend. Climb, klim, v. to hold to. Clinic, klim's, adv. telating to a bed; n. the teaching of surgery at the bedsude. Climker, klimg'er, n. scales of oxide of iron. Clip, klip, v. to curtial; to cut with scissors. Clipper, klip'er, n. a fast sailing vessel; one who clips. Clique, kick, n. a purty or group of persons. Cloak, klók, n. a time-keeper [ceals; v. to conceal. Clockwork, klok'werk, n. clock machinery. Clod, klod, n. a lump of earth. Closter, klof'ster, n. a covered arcade of a monastic Clonic, klof's adv. sasmoduc. [institution]
         Citrate, sit'rit, n. a salt.
Citric, sit'rik, adj. acid.
Citron, sit, say, scial.

Citron, sit'ron, n. a fruit.

City, sit'f, n. a large town.

Civet, sivet, n. a perimen from the civet-cat.

Civic, siv'ik, ad', relating to a city.

Civil, siv'il, ad', non-military, secular.

Civilian, siv-fl'tan, n one engaged in civil pursuits.

Civilian, siv-fl'tan, n one engaged in civil pursuits.

Civilization, siv-fl'ta, n, politeness.

Civilization, siv-fl'ta, n, politeness.

Civilization, siv-fl'ta, n, politeness.

Civilization, siv-fl'ta, n, politeness.

Civilization, siv-fl'ta, n, one who claims.

Civiliy, siv'il-t, adv. politely.

Claimy, siv'il-t, adv. politely.

Claimy, siv'il-t, adv. politely.

Claimy, siv, n, to claim, n, to thing claimed.

Claimant, kla'm, n, to ne who claims.

Claiment, kla'm, n, to ne who practices clair-

Claim, klam, n, a small bivalve shell-fish. [voyance.

Clamant, klam'en, n, nost; sticky.

Clamour, klam'en, n, most; sticky.

Clamour, klam'en, n, an sticky.

Clande, klam, n, n a sharp sound.

Clang, klam, n, n a sharp sound.

Clang, klam, n, n a sharp sound.

Clang, klam, n, n a sharp sound.

Clanger, klam'en, n, a barsh sound.

Clanger, klam'en, n, a sharp sound.

Clanger, klam'en, n, a sharp sound.

Clanger, klam'en, n, a sharp sound.

Clapter, klar'en, n, a bell tongue.

Clarter, klar'en, n, a shell tongue.

Clarter, klar'en, n, a member of a claque.

Clarter, klar'en, n, to make clear.

Clarton, klar'en, n, a come instrument.
         Citron, sit'ron, n. a fruit.
City, sit'i, n. a large town.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Clost, 100, n. a nump or earn of a monastic Closter, kilo'ster, n. a covered arcade of a monastic Close, kilo, ad/, shut, confined, narrow; n. a small field; v. to make close.

Closet, kie'set, n. a small private room.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Closure, klos'ur, n. the act of closing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clot, klot, n. coagulated matter.
Cloth, kloth, n. textile material.
Clothe, kloth, v. to dress.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Clothe, kloth, v. to dress.

Clothes, klothez, n. attire, raimont.

Clothies, klothier, n. attire, raimont.

Clothier, klothier, n. a maker or vendor of cloth.

Clothier, klothier, n. a maker or vendor of cloth.

Cloud, klowd, n. visible vapour.

Cloud, klowd, n. visible vapour.

Cloud, klowd, n. visible vapour.

Cloud, klowd, n. ad, nade dark by clouds; gloomy.

Cloud, klowd, n. a valley.

Clove, kloven, n. a valley.

[a blowy

Cloven, kloven, n. a visice.

Cloven, kloven, n. a visic; a fool.

Clowniah, klown'ish, ad, clown-like.

Cloy, kley, v. to satiste.

Cloy, kley, v. to satiste.

Club, klub, n. a heavy stck; a nassociation.
      Clasiny, kiari-n, v. to make clear.

Clarion, kiari-on, v. a kind of trumpet.

Clarionet, kiar-to-net', n. a reed instrument.

Clash, klash, v. to collide.

Clashing, klash'ing, n. a collision; opposition.

Clasps, klasp, v. to clutch; to grasp; to embrace.

Clasps, klasp'er, n. that which clasps. [gether.

Class, klas, n. a group; an order; scholars-taught to-
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Club-footed, klub'foot-ed. adj. with deformed feet. Club-law, klub'law, n. mob government. Clue, kloo, n. thread; link of connection. Clump, klump, n. a cluster of trees. Clumnsy glum'sl, adj. awkward, ill-shaped. Cluster, kludt, v. to seize; to grip. Clyster, kist'er, n. a liquid mjection. Coash, köch, n. a large carriage; v. to bring forward. Coash, köch, n. a large carriage; v. to bring forward. Coashutor, kö-ag-ü-la's, hun, n. curdling; clot. Coagulation, kö-ag-ü-lum, n. the thing coagulated. Coal, köl, n. a combustible mineral substance. Coaliesce, kö-al-ës', v. to unite. Coalition, kö-al-ö-lum, n. the act of uniting. Coarse, kos, ady gross, unrefined.
  Coalition, Ko-al-ish'un, n. the act of uniting.
Coarse, kors, ady gross, unrefined.
Coarseneas, kors'ness, n. roughness.
Coast, kost, n. shore.
Coaster, koster, n. a. coasting vessel.
[the coast.
Coast-guard, kost-gard, n. a body of men who guard
Coast, kot, n. an outer garment; v. to cover.
  Cost, kôt, n an outer garment; v. to cover.

Cost, kôts, v. to persuade.

Cob, kob, n. a horse for heavy weights; a head of

Cobalt, kô'bawk, n. a metal; a blue pigment. [maize.

Cobble, kob'l, v. to mend.

Coble, kob'l, n. a small boat.

Cobra, kô'bra, n. a serpent.

Cobra, kô'bra, n. a berpent.

Cocciferous, kok-sifer-us, ad/. bearing berries.

Coccyx, kok'siks, n. the lower bone of the vertebral

column.
Coccys, kok'siks, n. the lower bone of the vertebral column.

column. Inf Spanish flies.

Cochineal, koch't-nël, n. scarlet dye-stuff consistir Cochieary, kok-lê'rî, ad', of spiral consistir Cochaege, kok-lê'rî, ad', of spiral hand of delight.

Cockaege, kok-lê'rî, n. a fabiled land of delight.

Cockaege, kok-lêrî, n. a fabiled serpent.

Cockaerie, kok'erci, n. a young cock.

Cocket, kok'erci, n. a young cock.

Cock-te, kok'erci, n. a young cock.

Cock-te, kok'in, n. a squaning cys.

Cock-lorne, kok'hors, n. a rocking-horse.

Cocklet, kok'in, n. bac'nt near the roof.

Cockney, kok'in, n. a I ondoner.

Cockpit, kok'ni, n. a I ondoner.

Cockpit, kok'ni, n. a sa Condoner.

Cockpit, kok'ni, n. a sa Condoner.
                                             the wounded on a war ship.
     Cockroach, Not rock, w black beetle. Ihoat Cockswain, kot's one of the cacao tree; the cocoa, ko'kô, n. the seed of the cacao tree; the heverage from the prepared seed.

Cocoon, ko-koon', n. sliken sheath spun by silkworms.
        Cod, kod, s. a common sea-fish.
        Codex, kō'deks, n a code.
     Coders, kod'fer, n. a common fellow.
Codicall, kod's-il, n. supplement to a will.
Codification, kod-if-ik-il shun, n. the act of codifying.
Codify, ko'di-fi, v. to classify laws.
Comident, ko-eff-ishrent, n. that which acts together
Codify, kvdl-fl, v. to classify laws.
Coefficient, ko-fl-sishent, n. that which acts together with another thing.
Coefficient, ko-fl-sishent, n. that which acts together with another thing.
Coefficient, ko-fl-sishent, n. to compel.
Coefficient, ko-fl-sishent, n. to compel.
Coefficient, ko-fl-sishent, n. to fl-sishent, n. coefficient, ko-fl-sishent, n. d. the same age; contemporary.
Coefficient, ko-fl-sishent, n. coefficient, n. coefficient, ko-fl-sishent, n. coefficient, n.
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Cohasit, kō-hab'it, v. to live as married people.
Cohasitation, kō-hab-it-ā'shun, n. the act of living
Cohet, kō-hē', v. to stick together.
Coherent, ko-hē', v. to stick together.
Coherent, ko-hē', ven, ad.).
Cohesive, ko-hē', ven, ad.).
Cohesive, kō-hē', vi, ad.).
Cohesive, kō-hē', vi, ad.).
Cohesive, kō-hē', ven, ad.).
Cohesive, kō-hē', ven, ad.).
Cohesive, kō-hē', ven, ad.).
Cohesive, kō-hē', ven, ad., of sticking quality.
Cohort, kō'hōr, n. a had-dress.
Coli, koli, v. to wind; n. a ring of rope.
           Colling, No. to wind; n. a ring of rope.
Coll, koll, n. to wind; n. a ring of rope.
Colla, koll, n. money; n. to invent, stamp.
Collage, kolling, n. money; n. to invent, stamp.
Collage, kolling, n. money; n. to agree with.
Collicage, kolling, n. to agree with.
Collicage, kolling, n. straming.
Coleoptera, kolling, n. straming.
Coleoptera, kolling, n. straming.
Collicage, kolling, n. a straming.
Collicage, kolling, n. a straming.
Collicage, kolling, n. a thing worm about the neck.
Colliage, kolling, n. a thing worm about the neck.
Colliage, kolling, n. a thing worm about the neck.
Colliage, kolling, n. an eassociated with others.
Collicage, kolling, n. one associated with others.
Collect, kolling, n. an educational matitution.
Collegge, kolling, n. an educational matitution.
Collegs, kolling, n. an educational matitution.
     Collet, kol'et, n. the prominent part of a ring.

Collier, kol'et, n. a. coal miner.

Colliery, kol'et, n. a. coal mine.

Colliery, kol'et, n. a. coal mine.

Collimation, kol-in-k'shin, n. the line of sight.

Collimation, kol-in-k'shin, n. the line of sight.

Colloque, kol'et, n. a. slice of mean.

Colloque, kol'et, n. a. slice of mean.

Colloque, kol'et, n. a. conversation.

Collusion, kol-k'et, n. conversation.

Collusion, kol-k'et, n. conversation.

Collusion, kol-k'et, n. a. a vecret understanding.

Collusion, kol-k'et, n. fifth.

Colon, ko'lon, n. part of intestines.

Colon, ko'lon, n. part of intestines.

Colonel, kurnal, n. a. commanding officer.

Coloniastion, kol-on-k-za'shun, n. the act of colonizing.

Colony, ko'lon, n. a dependent country; a settlement.

Colossum, Coliesum, kol-os-d'un, n. Vespasian's amphitheatre; any colossal place of entertainment.

Colours, ku'er, n. ne; appearance.

Colourable, ku'er-abl, adr, seemingly fair.

Colourable, ku'er-abl, adr, seemingly fair.
Colporteur, kol'port-er, n. a pedlar of tracts. [cglours. Colt, költ, n. a young horse. Colter, n. the front iron of a plough. Column, kol'um, n. an upraght support of a building, a body of troops; a row of printed lines. Colure, kol'un, n. an e of two intersecting circles. Colles, kol'an, n. aleap is tuport. Colles, kol'an, n. a plant from whose seeds colza oil is coma, köm'a. viör, adj drowsy. Combo, köm, n. a toothed instrument for straightening Combat, kom'ba. n. an encounter; a fight; a struggle. Combatant, kom'ba. n. an encounter; a fight; a struggle. Combatant, kom'ba. n. an encounter; a fight; a struggle. Combatant, kom'ba. n. an encounter; a fight; a struggle. Combatant, kom-bist, n. an encounter; a fight; a struggle. Combustion, kom-bust'yūn, n. hurning. Combustion, kom-bust'yūn, n. hurning. Comedian, kom-č'dian, n. an actor. Comedy, kom't-di, n. a humorous play. Comedian, kom-č'dian, n. an actor. Comedy, kom't-di, n. a humorous play. Comedines, kum'di, n. a. kom'st. comedines, kum'di, n. a. kom'st. a. com'di, kom'et, n. a nebulous heavemly body with a Comfit, kum'fit, n. a sweetmeat. [fail. Comfort, kum'fit, n. a weetmeat. [fail. Comfort, kum'fit, n. a firsthil. adj. feeling comfort. Comic, kom't, adj. imrthil.
                Comic, con'ik, ad', mirthil.
Comical, kom'ik, ad, mirthil.
Comical, kom'ik, ad, ourtey,
Comity, kom'it, a, courtey,
Comissa, kom'a, a punctuation mark (,). [to lead.
Comman, kom'a, a punctuation mark (,).
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Commandant, kom-mån'dant, s. an officer having command. [the chief general
   Commander, kom-man'der, s. one who command; Commandment, kom-mandment, s. a precept.
Commemoration, kom-mem-ö-rä-shun, s. a celebration.
Commemorative, kom-mem-ö-rä-tiv, add. tending to
  Commendative, kom-menti-o-ra-tiv, act, tending to Commence, kom-ments, v. to begin. Celebrate. Commend, kom-mend', v. to praise. [urc. Comments, venturate, kom-mens'-ur-ât, act), of equal mens-Comment, kom'ment, vs. note of explanation; remark. Commentary, kom'ment-ar-4, vs. comment. Commentator, kom-men-ta'tur, vs. one who makes comments. (trade.
  commercis. (Itrade. Commerce, kon'ers, n. international or individual Commercial, kom-érsh'al, ady, relating to commerce. Commination, kom-m's-sluin, n. demunication Commingle, kom-mg'l, v. to blend. Commiseration, kom-2-er-d'sluin, n. pity. [of anarmy. Commissari lat, kom-s-4-f'r-at, n. victualling department Commissary, kom'r-s-er-l, n. one having large Commission, kom-sh'r, n. a col committing: a per-Commissare, kom-m's'sir, n. a joint. [centage. Commit, kom-t', v. to give in charge, to entust. Committed, kom-t'al, n. commutage, to entust. Committal, kom-t'al, n. commutage, to entust.
   Committee, kom-t'c, n. a body charged with direction
                   or investigation.
or investigation. [dres, commond, ko-niol/, n, a sideboard; a box, a head-Commodibus, kon-o'di-ins, ad/ 100119; convent at Commodibus, kon-o'di-ins, ad/ 100119; convent at Commodire, koni'o-dôr, n, a naval officer Common, koni'un, ad/, ordinary, n, open kand. Commonage, koni'un-di-ti, n, the general body of the Commoner, koni'un-di-ti, n, the general body of the Commoner, koni'un-ei-ti, n, the people. [people. Commonplace, koni'on-plās, n, an ordinary saying. Commonwealskoni'un-well, n, the common good Commonwealskoni'un-well, n, the common good Commonwealsk , lou'un-well-is, the government of
 Commonwealth, bour un-welther, the government of a free state; the public good.
Commotion, ko-inc'shun, n disorder, confusion, ex-
Commune, kom-int', n, to com erse. [citement, Commune, and, to have not be a portaker of the
                   Holy Communica
  Communicate, kom-û'ni-kât, 7. to impart. [municate, Communicative, kom-û'ni-kâ-tiv, a./, inclined to com-Communion, kom-û'-ir-on, a. mutu d intercourse.
  Communism, kom'ú-mzm, n. the theory of equal
  nights in property [public Community, kom-mu'nit-I, n. a body of persons; the Commutation, kom-mu-ta'shun, n. exchange, substi-
                                                                                                                                                                                                          lauother.
                   tution.
   Commute, kun-ūt', v. to exchange one thing for Commutual, kom-ū'tū-al, adj mutual.
   Compact, kompakt, n an agreement; a league.
Compact, kompakt, adv. close, fine.
  Companion, kom-pan'yun, n an associate.
Companion, kom-pan'yun, n an associate.
Company, kum'pan-n, n person sasembled together.
Company, kum'pan-n, n person sasembled together.
Comparable, kom-pan'yun-ahi, ad/, that may be compared.
Comparative, kom-pan'a-tiv, ad/, by comparison.
Compare, kom-pan, v. to examine one against another.
Comparison, kom-pan's-on, n the act of comparing.
Compart, kom-pan', v. to di-ide.
  Compart, kom-pårt', v. to di.-de.
Compartment, kom-pårt'ment, n. a separate division.
Compass, kum'pas, n. a circle; space; magnetic
needle; v. to obtain; to surround. [circles.
Compassen, kum'pas-es, n. an instrument for drawing
compassion, kum-pash'on, n. commineration, sym-
pathy, pity. [agreeing or harmonising.
Compatible, kom-pat'-bibl'.tl, n. the quality of
Compatible, kom-pat'-bibl'.adj. consistent with.
Compatriot, kom-pår'.n. to appear in court by another.
Compeer, kom-pèr', n. to appear in court by another.
Compeel, kom-pèr', n. an equal, companion.
Compel, kom-pèr', n. an equal, companion.
Compell, kom-pèr', n. an equal, companion.
  Compel, kom-pet', v. to force.

Compellation, kom-pel-å-shun, w. style of address.

Compendious, kom-pen'di-us, adj. brief, short.

Compendium, kom-pen'di-us, v. summary, abridge-
Compensate, kom-pens'at, v. to recompense. [ment.

Compensation, kom-pensa'shun, n. recompense.

Compete, kom-pet' v. to strive.
   Compete, kom-pet' v. to strive. [live upon. Competence, kom'pi-tens, n. a sufficiency; enough to
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Competent, kom'pl-tent, adj. able, suitable, sufficient.
      Competent, kom'pl-tent, add, able, suitable, sufficient. Competition, kom-pet-itsor, w. one who competes. Compilation, kom-pet-itsor, w. one who competes. Compilation, kom-pil-id-ishun, w. act of compilation work compiled.

Compile, kom-pil-v. to collect; to gather from books. Compiler, kom-pil-v. to collect; to gather from books. Compilernee, kom-pil-ven, w. sat-saketon, pleasure. Complacent, kom-pil-ven, w. sat-saketon, pleasure. Complain, kom pilar, v. to grundble; to laneut.

Complain, kom-pilar, v. to grundble; to laneut.

Complain, kom-pilar, one who complains; a
 planniff.
Complaint, nom-plaint, n. a complaining; fault-finding.
Complaint, nom-plaint, n. a complaining; fault-finding.
Complainant, kom-plaizans, no obligmeness.
Complainant, kom-plaizant, nor complete.
Complement, kom-plaizant, nor completing.
Complex, kom-plek, not complained.
Complexity, kom-plek/shun, n. colour; general ap
Complexity, kom-plaizant, nor, ginte of being com-
Complaint, kom-plaint, naf yieflung.
Complicate, kom-plakat, v to reader confused
Complication, kom-plakat, v to reader confused
Complication, kom-plainent, n. m entinglement.
Compliant, kom-plainent, n. m expression of regard.
Complianent, kom-plainent, n. m expression of regard.
Complianent, kom-plainent, n. m expression of regard.
                           plaintiff.
   Prise.

Compline, kom'plin, n the last canonical service of Complot, kom'plin, n the last canonical service of Complot, kom'plin, n to agree, to yield.

Component, kom-plin, n to agree

Comport, kom-port, n to agree

Comportable, kom-plin'tabl, ad, capable of being Compose, kom-ploz', n to originate in music, art, or literature: to settle.

Composer, kom-ploz'er, n one who composes; are Composents, kom'poz'er, n and marin, a time composite, kom'pos menti'n, ad, nn ac, sane.

Composite, kom'posit, ad, in ade up of parts.

Composite, kom'posit, ad, in ade up of parts.
                        pruse.
    Composition, kom-pa-zish'nn, n a mixture, a thing
                         written or composed
      Compositor, kom-pozitier, w one who sets type
   Compositor, kom-noz'ii-er, n one wno sets type. Com-post, kom'post, n, a mysture of soil or plaster. Comnos-ure, kom-po'z'u, n, calmness. Compotation, kom-po-drishim, n a carousal. Compound, kom-pownel', n, to mix; to settle. Compound, kom'-pownel', n, a mass; a mixture. Comprehend, kom prê-hend', vo to understand.
    Comprehensible, kom-pre-hensibl ; will, that may be
                      understood.
      Comprehension, kom-pre-hen'shun, s. intelligence to
                        understand.
       Comprehensive, kom-pre-hens'iv, adj extensive.
Compress, kom-press', v. to force together, to con-
                           centrate.
       Compression, kom-presh'un, n. the act of compressing Comprisal, kom-prizal, n. the act of comprising. Comprise, kom-priz', n. to include. Compromise, kom-priz', n. an agreement by
Compromise, kom'prō-miz, n. an agreement by mutual concession.
Comptroller, kom-trō'ler, n. one who controls.
Compulsion, kom-pul'shun, n. force.
Compulsion, kom-pul'shun, n. force.
Compulsive, kom-pul'shv, ad., coercive.
Compulsiory, kom-pul'shv, ad., cocompelling.
Computation, kom-pul-tā'shun, n. remorse, misgiving.
Computation, kom-pul-tā'shun, n. calculation.
Com, kom'rad, n. companion.
Con, kom, v. to study.
Conarium, kom-ār-hum, n. the pineal gland of the Concatenation, kon-kat-in-ā'shun, n. united links.
Concave, kon'raw, n. a co-operating cause.
Concave, kon'raw, n. a co-operating cause.
Concave, kon'raw, n. a co-operating cause.
Concave, kon'raw, n. to nige.
Concave, kon'raw, to heing concave.
Concede, kon-āc', v. to surrender; to admit.
Concete, kon-āc', v. to surrender; to admit.
Conceted, kon-āc' v. to surrender; to admit.
Conceted, kon-āc' v. v. to form; to understand.
Conceive, kon-āc', v. to form; to understand.
Conceive, kon-ser', v. to form; to understand.
Concentrate, kon-sen'trāt, v. to bring close fogether; to compress.
                         mutual concession.
                           to compress.
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Concentration, kon-sen-tra'shun, s. the act of bringing
together.

Concentric, kon-sen'trik, adj. with a common centre.
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concentric, son-sent trik, adj. with a common centre.
Genept, kon'sept, n. an idea; a notion.
Concert, kon'sert, n. a nussical entertainment; union.
Concert, kon'sert n. a nusical entertainment; union.
Concerted, kon-sert'ed. adj. planned, arranged.
Concerting, kon-sert'ed. adj. planned, arranged.
Concerting, kon-sert-te'na, n. a musical instrument,
with bellows.

with hellows.

Concession, kon-sesh'un, n. a conceding: the thing Conch, kongk, n a shell.

Conchold, kong'kold, n. a plain curve.

Concholdy, kong'kol'o-jl, n. the science of shells.

Concilerse, kon-si-lare, ad relating to a council.

Concilate, kon-sil'ar, n. to gain lavour.

Concilate, kon-sil'ar, n. to gain lavour.

Concilate, kon-sil'ar, n. mutilation.

Concilate, kon'klay, n. meeting-place of cardinals.

Concilate, kon'klay, n. meeting-place of cardinals.

Concilate, kon-klud'n to finish.

Conclusive, kon-klud'n to finish.

Concoulsive, kon-klud'n to finish.

Concoulsive, kon-klud'n to finish.

Concoct, kon'klay, n. an', finish.

Concoct, kon-kok', n. to make up.

Concoction, kon-kok', n. to make up.

Concontiant, kon kom't-ant, nd', joined with.

Concoction, kon-kok'shun, n. a mixture; a plot. Concomidant, kon kom'ti-ant, nd', joined with. Concord, kon'kord, n. harmony. Concordance, kon-kôrd'ans, n. accord; an index to leading passages of a book. Concordant, kon-kôrd'ant, ad., harmonious. Concordat, kon-kôrd'at, n. a treaty between the Pope and some secular number. and some secular power.

Concourse, kon'kors, n. an assembly of people
Concrete, kon'kret, ad/ brought together under one
Concubine, kon'ku-bin, n. a nustress. [mass

Concupine, kon-kur', n. to go tog-ther, to agree.
Concurrence, kon-kur'ens, n. muon: agreement jiwe
Concurrent, kon-kur'ens, n. muon: agreement jiwe
Concursion, kon-kur'ens, n. aviolent clashing together.
Condemn, kon-den'n, to blaine; to declare guity
Condemnation, kon-dem-nå'shun, n. the act of condenmation, kon-dem-nå'shun, n. the act of con-

demning.

Condensation, kon-den-sī'shun, n. consolidation. Condense, kon-dens', n. to compress

Condenser, kon-dens'er, n. one who, or that which, condense

Condensed, Kon-de-Send', v to be affable to inferiors Condescending, kon-de-Send'ing, at controls to Condign, kon-div and, adequate into for Condinnent, kon-dis' inch, adequate for arrangement Condition, kon-dish'un, v the evising state; tenk; Conditional, kon-dish'un-al, adj. depending on conditional, kon-dish'un-al, adj. depending on conditional, kon-dish'un-al, adj.

Conditioned, kon kish'und, adr. possessing a certar.

Condivioned, kon kish'und, adv. possessing a certar. Condole, kon-dol. v. to sympathise. Quality. Condolence, kon do'lens, n sympathy to one in grief Condone, kon don'lens, n sympathy to one in grief Condone, kon don', v. to forgive Condor, kon'dor, n. a large vulture. Conducte, kon-du's, v. to contribute. Conducte, kon-du's, v. to contribute. Conducte, kon-dukt, n. behaviour. Conduct, kon-dukt, v. to guide: to lead. Imanager. Conduct, kon-dukt or, n. one who conducts; a Conduit, kon'dukt, n. channel for conducting water Cone, kon, n a pointed substance with a circular lists. fruit of cone shape Confabulation, kon-lab-ù-la'shun, n. a familiar chat. Confect, kon-lekt', s. to prepare. Confection, kon-lekt', shun, n. a sweetmeats; shop

Confectionery, kon-fek'shun-ar-I, n. sweetmeats; shop where confections are sold.

Confederacy, kon-fed'er-à si, n. a leagued Body. Confederate, kon fed'er-ât, n. an accomplice; banded together. fleague.

Danded together. [league. Confederation, kon-federa-i'shun, n. an alliance; a Confer, kon-fev', v, to talk together; to bestow. Conference, kon-fev', v, to admit. Confess, kon-fev', v, to admit. Confessedly, kon-fes'ed-ll, adv. admittedly, confessenal, kon-es'dun-al, n. the place where a

priest hears confessions.

Concessor, kon-fes'-or, n. a priest who hears con-fessions. [confided. Conjessor, kon-fes'-or, n. a priest who hears conflessors, kon-fit-dant, one to whom secrets are Confided, kon-fid', n. to trust; to tell privately. Confidence, kon-fid', n. to trust; to tell privately. Confidence, kon-fid-ens, n. trust, belief. Confident, kon-fid-ens, n. trust, belief. Confident, kon-fid-ens'shal, adj. in confidence. Configuration, kon-fi-u-i-ri'shun, n. external outline Confine, kon-fin', n. to imprison; n. a "Ising in." [tlon. Confinement, kon-fin', n. to imprison; n. a "Ising in." [tlon. Confinement, kon-fin', n. to make certain, to sanction. Confirmatory, kon-fam', at-order confirming. Confiscation, kon-fis-ka'shun, n. the act of taking over or annexing.
Confiscation, kon-fis-ka'shun, n. a destructive fire. Confilet, kon-fis-en, n. struggle, contest.
Confilet, kon-fis-en, n. to opipose; to contend.
Confound, kon-fownd', n. to opipose; to contend.
Confound, kon-fownd', n. to onfuse; to abash.
Conformation, kon-fownd', n. to confuse to abash.
Conformation, kon-fown-it-gens situable.

Conformable, Ron-form abl, adv. Suitable.
Conformation, kon-formin-l'shim, n. special shape.
Conformity, kon-formit t, n. likeness.
Confraternty, kon-fractern'td, n. a brotherhood.
Confront, kon-fraint', 2, to face. (Confucins, Confinensium, kon-firshim, n. the doctrines of Confuse, kon-fuz', n. to bewilder; to abash. [fused. Confusion, kon-firshim, n. the act of confusion, kon-firshim, n. the act of confusing Confuse kon-firshim.

Congert, konjegor, v. a Lurge sea onen Congert, konjegor, v. a Lurge sea collection of particles Congest, konjegor, v. to accumulate. Conglobulate, konjegor, v. to to collect into a Conglobulate, konjegor, v. a.v. gathered in a

Conglittmation, kon-glu-tin-i'shun, n, a sticking to Congratulate, kongratulation, n. a sticking to Congratulate, kongratulati, v. to express gladness on some happy event.

on some daply octor.

Congregate, long grégat, v to assemble,
Congregation, kong grégat, sun, n an assemblage
Congregationalism, kongrégat slum-al-ten, n, tre
Independent form of worship. Hegislative body.
Congress, kong gress, n a conference, the U S
Congruity, kong-grifts, n, suitablity.
Congrous, kong gri-us, adj satable.
Conc, konfik, ad, in the form of a cone.

Comes, Lon'iks, a. the cone section of geometry.

Comes, kon'lks, n. the cone section of geometry. Coniferas, kon-ifer-is, n. cone-bearing plants. Coniferous, kon-ifer-us, adj., cone-bearing. Conjectural, kon-jecki'ard, adj. motol mg supposition. Conjecture, kon-jecki'ar, n. a guess, v. to surmise. Conjoin, kon-join', v. to unite. Conjoint, kon'joint', adj. united. Conjugal, kon'joint', adj. united. Conjugal, kon'joint', adj. tellating to marriage. Conjugate, kon'joint', adj. tellating to marriage. Conjugate, kon'joint', adj. tellating to marriage. Conjunction, kon-jungk', adj. conjoned. [werb, conjunction, kon-jungk', adj. conjunct

ing word.

Conjuncture, kon-jungkt'ür, m. combination of events.

Conjuretton, kon-jü-ră'sluu, m. enchantment.

Conjure, kun'jer, z. to practice seight-of-hand,

Conjure, kun'jer, z. to solemuly implore.

Conjurer, kun'jer-z., m. one who practices leger de
Conjuror, kon-jü'rer, m. one joined by oath with others.

Connattural, kon-at'ü-ral, adj. of kındred nature.

Connect, kon-ekt', v. to join together: to associate.

Conjexion or Connection, kon-nek'shun, m. that

which connects.

which connects.

· dāy; at; arm; eve; elk; there; see; pin; machine; bold; pot; stôrm; mute; tub; bûrn.

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Connivance, kon-Fvans, s. a secret understanding. Connive, kon-Fv. v. to wink at a fault; to combine. Connoisseur, kon-ne-sehre, s. a critical expert. connubial, kon-u'bl-al, adf. relating to marriage.
Conoid, kon'oid, s. in cone form
Conquer, kong ker, v. to subdue; to overcome.
Conqueror, kong ker-er, v. one who conquers.
Conquest, kong ker-er, v. the act of conquering.
Consanguineous, kon-sang-gwin'è-us, adj. re
         nsanguineous, kon-sang-gwin'ë-us, adj. related by blood.
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Conscience, kon'shens, s. an inner sense of duty. Conscience, kon'shens, n. an inner sense of duty.
Conscientious, kon-sh-ien'shus, ad, scrupulous,
Conscious, kon'shus-ien'shus, ad, sen'upidous,
Conscious, kon'shus, ad, having perception of,
Consciousness, kon'shus-ness, n. self-perception.
Conscript, kon'skript, n. a compulsory soldier.
Conscription, kon-skrip'shun, n. compulsory enlist.
Consecrate, kon'se-kriat, p. to make sacred. [ment.
Consecration, kon-se-kria'shun, n. the act of devoting
to holy surpose.

Consecration, kon-sê-krā'shun, n. the act of devoting to holy purpose.

Consecutive, kon-sek'ū-tiv, adf. succeeding in order.

Consents, kon-sen'su, n. unanimity,

Consent, kon-sen's, v. to agree: to comply.

Consent, kon-sen'sh-lent, adr. agreeing.

Consequence, kon'sê-kwens, n. result,

Consequence, kon'sê-kwent, adf. resulting. [ous.

Consequent, kon'sê-kwent, adf. casual; pomp
Conservation, kon-ser-vi'shun, n. act of conserving.

Conservative, kon-ser-vi'shun, n. lending to conserve;

the name of a political party.

Conservatory, kon-ser-vi'-tori, n. greenhouse.

Conservatory, kon-serv'ā-tor-ī, n. greenhouse.

Conservatory, kon-serva-tori, n. greenhouse.
Conserve, kon-serv, n. fruit or other preserve.
Consider, kon-sider, to ponder.
Considerable, kon-siderabl, n important; large.
Considerate, kon-siderabl, n important; large.
Consideraten, kon-siderabl, n. importance;

deliberation. delineration.

Consign, kon-sin', v to transfer; to entrust

Consignee, kon-sin-ē', n. one to whom anything is consigned.

Consigner, kon-si'ner, n. one who consigns. Consignment, kon-sin'ment, n. the thing consigned :

act of consignment. Consist, kon-sist', v. to exist; to agree.
Consistency, kon-sist'en-si, n. substance; degree of
Consistent, kon sist'ent, ad', unitorn
Idensity. Consistory, kon-sist'o-ri, n. a place of assembly.
Consociation, kon-so-shi-a'shun, n association.
Consolation, kon-so la'shun, n. comfort, sympathy. Console kon-so is suun, n. contour, gampana, Console, kon-sol, r. to comfort.
Consolidate, kon-sol'f-ddi, n. to make solid.
Congols, kon'sol, n. short for consolidated annuities.
Consonance kon'so-nan, n. agreement.

Consunant, kon'-so-nant, adj. consistent: any letter except a vowel. Consort, kon'sort, n. companion. Consort, kon-sort', v. to associate. Consort, kon'sort, n. companion.
Consort, kon'sort, n. to associate.
Conspicuous, kon-spik'ū-us, ad., prominent
Conspirator, kon-spik'ū-us, ad., prominent
Conspirator, kon-spik'ū-us, n. a banding together.
Conspirator, kon-spik'a-us, n. a banding together.
Constable, kon's-tabl, n. an officer; a policeman
Constabluary, kon-stab'ū-lar-l, n. a body of constables.
Constancy, kon'stan-si, n. fidelity.
Constant, kon'stan, ad/, fixed.
Constellation, kon-stel-à'shin, n. a group of stars.
Constituent, kon'stair, ad/, fixed.
Constituent, kon-stik'ū-en-si, n. a body of voters.
Constituent, kon-stik'ū-en-si, n. a body of voters.
Constituent, kon-stik'ū-en-si, n. a body of voters.
Constituent, kon-stik'ū-ent, n. a voter; ad,, an cleConstitution, kon-stik'ū-en-si, n. a body of voters.
Constituent, kon-strik'ū-en-si, n. a body of voters.
Constriction, kon-strik'ū-en-si, n. a body of voters.
Constriction, kon-strik'u-en-si, n. a body of voters.
Constriction, kon-strik'shun, n. the governmental system; man's physical state.
Constriction, kon-strik'shun, n. contraction.
Constriction, kon-strik'

Constructive, kon-strukt'iv. ad/ capable of construct-Construe, kon-stroir, v. to interpret; to explain, [ing. Consubstantial, kon-sub-stan'shal, ad/, of the same nature. [doctrine of the substantial presence Consubstantiation, kon-sub-stan-shi-a'shu, n. the Consubstantiation, kon-sub-stan-shi-a'shu, n. the Consubstude, kon'swe-tiid, n. custom.

Consul, kon'sul, n. a government representative

Consule, kon'swe-tud, w. custom.

Consul, kon'sul, n. a government representative

Consultate, kon'sul-āt, n. office of consul. [abroad.

Consult, kon-sult-āt'shu, n. an interview between a professional man and his client or patient.

Consume, kon-sun, v. to destroy; to burn up.

Consummate, kon-sum'at, v. to perfect.
Consumption, kon-sum'shun, z. the act of consum-

Consumption, kon-sum'shun, n. the act of consuming: a pulmonary disease.
Contact, kon'takt, n. touch.
Contagion, kon-ti'jun, n. infection.
Contagions, kon-ti'jun, n. infection.
Contain, kon-tin', n. to hold.
Contaminate, kon-tam'-in-āt, v_c to pollute.
Contango, kon-tango, n. a commission paid for poetpoinement of purchase.
Contempt, kon-tem', v to despise.
Contempt, kon-tem', v. to tender.
Contemplate, kon'tem-piāt, v. to reflect; to study.
Contemporaneous, kon-tem-piat, v. to reflect; to study.

Contemporaneous, kon-tem-po-ri'ne-us, adj. existing at the same time

at the same time

Contemporary, kon-tem'po-ri-ri, n. one who exists at
the same time, a co-existing publication.

Contempt, kon-tempr', n. scorn

Contempt, kon-tempr'lini, adr. despicable.

Contend, kon-temp' in to struggle, to oppose.

Content, kon tent', adr. satisfied, pleased; n satisfied

Contention, kon-ten'shun, n straft.

[faction.

Contentious, kon-ten'shus, ad; quarrelsome.

Contentment, kon-tent'ment, n. satisfaction.
Contents, kon-tents', n things contained, index
Conterminous, kon-ter'min-us, adj. coexistent with.

Contest, kon test, v. to dispute.
Contest, kon test, v. to dispute.
Contest, kon'test, v. conflict.
Context, kon'test, v. conflict.
Contexture, kon-tekst'ür, v. the structure of a thing.
Contiguity, kon-tigu'it-i, ad, neamess
Continence, kon'tin-ent, v. mainland, a large division of the earth's surface. of the earth's surface.

Contingency, kon-tin'jen-si, n. an accidental happen-Contingent, kon-tin'jent, adj. dependent upon some-

Contingent, kon-tin'jent, adj. d-pendent upon something happening, n. a band or company.
Continual, kon-tin'u-al, adj. unceaung
Continuation, kon-tin-u-al'shun, n. unbroken succesContinue, kon-tin'u-al, adj. unceaung
Continue, kon-tin'u-al'shun, n. unbroken succesContinue, kon-tin'u-al'shun, n. unbroken succesContinue, kon-tin-u-al'shun, n. unbroken succesContinue, kon-tin-lift, n. unclaim to persist [sionContinue, kon-tin-lift, n. unclaim continue,
Continue, kon'tin-land, adj. illegal: n. prohibited
Contrabandist, kon'tin-land-ist, n. a smuggler
Contrabandist, kon'tin-land-ist, n. a smuggler

Contrabandist, kon'tra-landi-st, n. a smuggler Contrabas, kon'tra bis, n. the duble bass viol Contract, kon-trakt', n. to draw together; to bargain. Contract, kon'trakt', n. an agreement. Contraction, kon-trak'shun, n. the act of contracting. Contractor, kon-tra-dikt', n. to assert to the contrary. Contradictory, kon-tra-dikt', n. to assert to the contrary: mean contradictory, kon-tra-dikt'or-f, adj. contrary: mean

sistent.
Contradistinction, kon-tra-dis-tink'shun, n. distinctly
Contralto, kon-tral'to, n. the alto voice. [contrasted.
Contraries, kon'tra-tra, n. things opposed.
Contrary, kon'tra-tra, add, opposite; at variance.
Contrast, kon-trast', v. standing or putting in opposiContrate kon'trait, add, cogged. [tion.
Contravellation, kon-tra-vel-d'shun, n. fortification
built by besiegers.
Contravene, kon-tra-vel-d', v. to oppose.

Contravene, kon-tra-ven', v. to oppose.

Contravention, kon-tra-ven'shun, n. opposition.

Contretemps, kon-tgtang', n. an mopportune incident.

Contribute, kon-trib ut, v. to give; to supply a literary

composition.

Contribution, kon-tri-bū'shun, s., a thing contributed.
Contributory, kon-trib'ū-to-ri, adf. helping.

Contrite, kon'trit, adf. penitent.

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Contrition, kon-trish'un, n. grief; remorse.
Contrivance, kon-tri'vans, n. a thing contrived.
Costrie, kon-tri', v. to project; to invent.
Controle, kon-trol', v. to command; to direct.
Controles, kon-trol'er, n. a checker of accounts.
Controversialist, kon-tro-ver'shal-ist, n. one who indulges in controversy.
Controversy, kon'tro-ver-si, n. written discussion.
Conflowert, kon-tro-ver', v. to refute; to deny.
Contumetr, kon-tro-ver', v. to refute; to deny.
Contumetry, kon'tto-mell'us, n.d', insolent.
Contumety, kon'tti-mell-i, n. insolence; reproach.
Contuse, kon-tu'z, n. to bruise.
Contusion, kon-tu'z', n. to bruise.
Contusion, kon-tu'z', n. a bruise.
Contusion, kon-tu'z', n. a riddle.
Convalescence, kon-val-es'ent, n. recovery of health.
Convalescent, kon-val-es'ent, n. ne recovering
Convection, kon-vek'shun, n. transmission of electricky or heat by currents.

[assemble.
     Contrition, kon-trish'un, n. grief; eremorse
     Convenice, kon-vent. 2. tallassish of the tricky or heat by currents.

Convenie, kon-vent. 20. to summon together: to Convenient, kon-vent. 10. summon together: to Convenient, kon'vent. 10. a nunnery, or monavery. Convenice, kon-vent'ikl. 10. place of worship.
     Convention, kon-ven'shun, u. common usage; an assembly. [established by usage.
  assembly.

Conventionalism, kon-ven'shun-al-izm, n. what is Conventual, kon-ven'fu-al, adj. pertaining to a conconverge, kon-verj', v. to tend to one point. Conversant, Lon-vers'ant, adj. familiar with. Conversation, kon-vers-a'shun, n. familiar talk. Conversation, kon-vers-a'shun, n. familiar talk.
                                        discussion.
                                                                                                                                                                                                                                                                                                                                                                           [course with,
     Converse, kon-vers', v. to talk with; to have inter-
Conversely, kon-vers'li, adv in reverse order.
Conversion, kon-ver'shun, v. change of view.
     Conversion, kon-ver'shun, n change of view.

Convert, kon-vert', v. to alter from one opinion to
another; to apply.

Convertible, kon-vert'ibl, ad/, that may be converted.

Convex, kon'veks, ad/, inclining to external roundness.

Convex, kon-veks'it-1, n. outside roundness.

Convey, kon-veks'it-1, n. outside roundness.

Convey, kon-veks'it-1, n. any vehicle; deed trans-
ferring appearate.
     Conveyance, kon-va'ens, n. any ventice; deep trans-
ferring property.

Convex, kon-va'ens-er, one who draws up deels

Convict, kon-vik', n. a prisoner condemned for crime.

Convicto, kon-vik', n. a prisoner condemned for crime.

Convicto, kon-vik', n. a prisoner condemned for crime.

Convicto, kon-vix', n. to satisfy.

[being convinced.

Convocation, kon-vix'-fal, adf, joyial.

Convocation, kon-vo-kā'shun, n. act of convoking;

Convocation of the convocation of t
     Convocation, kon-vo-kā'shun, n. act of convoking; Convoke, kon-vôt', v. to sunion together. [a synod. Convolve, kon-volv', v. to roll together. [a synod. Convolve, kon-volv', v. to roll together. Convolve, kon-vols', v. to accompany for protection. Convulse, kon-vuls', v. to agetate. Cony, ko'n, v. a rabbit. Coo, koo, v. sound nade by doves. Cook, koo, v. to prepare food; n. one who cooks. Cookery, kook'er-l, n. the science of cooking. Cool, kool, adf. slightly cold; calin; v. to make cool. Coolle, kool'í, n. an Oriental labourer. Cooling, kool'í, n. at object prefreslung. Coop, koop, n a tub or box, v. to confine. Cooperage, koop'er-lj, n. a cooper's workshop.
          Coop, koop, n a tub or box, n to comme.

Cooperage, koop'er-it, n, to work with.

Co-operative, koop'er-at, n, n, working together.

Co-operative, ko-op'er-at, n, n, working together.

Co-optation, ko-opt-a'shun n, the act of election into an association by its own members.

Co-ordinate, ko-awr'din-at, and, ranking the same.
          Co-ordinate, Ro-awr din-ats, n. smilar elements.
Coot, koot, n. a water-fowl.
Copal, ko'pal, n. a resinous substance. Their ship.
Coparemary, ke-par'sen-ar-i, n. the condition of joint
Copareener, ko-par'sen-ar-i, n. the condition of joint
Copareener, ko-par'sen en, n. one who is joint heir.
Copatain, kop'a-tan, adj. a hat of stgar-loaf form.
            Sopatain, kop'a-tan, aaf, a hat of Sigar-loat form. Cope, köp, n. a covering; v. to engage with; to match. Copiler, kop't-er, n. the top course of a wall. Copious, kô'ping, n. the top course of a wall. Copious, kô'ping, a.d. abundan' Copper, kup'er, n. a red-brown metal; a copper vessel. Coppera, kop'era, n. suphate of iron. Coppice, kop's, n. a copse.
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Coprofile, kop/ro-lit, st. fossilised excrement.
Copse, kops, st. a small wood.
Copse, kopf, st. a small wood.
Copse, kopf, st. an imitation.
Copyridt, kopf-hold, st. land hold of a manor.
Copyrigt, same as Copier.
Copyright, kopf-rid, st. right in an original production.
Coquet, ko-ketf, v. to firt.
Coquet, ko-ketf, v. to firt.
Coquet, ko-ketf, st. a firt.
   Coquette, kö-ket', n. a flirt.
Cor, kor, n. a Jewish recasure.
Coracle, kor'ā-kl, n. a small row-boat.
   Coral, kor'al, s. a substance found in the sea.
Corban, kor ban, s. a religious or charitable offering.
 Corbel, kor'bel, n. a projection from a wall. Cord, kord, n. thin rope. Cordage, kord'āt, n. a ship's rigging. Cordate, kord'āt, n. a ship's rigging. Cordate, kordeler, kordeler, n. a Franciscan friar.
  Cordial, kor'di-al, n. a he verage; ad). hearty.
 Cormai, kor di-al, M. a be verage; ad), hearty, Cordon, kor'don, M. a bedge; a guarding line of Corduroy, kor'du-roi, M. a kind of fustian. [soldiers. Cordwain, kord'wān, M. goatskin loather. Cordwainer, kord'wāner, M. a sloemaker; a worker Core, kör, M. the heart; the inner part. [in cordwain. Co-respondent, ko-res-pon'dent, M. a co-def adam in
                   a divorce suit.
  a divorce suit.

Coriaceous, ko-ri-â'shus, adi. leathery.

Cork, kork, n. a tree or its bark; a bottle stopper.

Cormorant, kor'mo-rant, n. a web-footed sea-bird.
   Corn, kawrn, n. grair
 Cornea, kor'n-a, n. the front membrane of the eye.
Corneous, kor'n-aus, aq', horny.
Cornelian, kor-ne'li-au, n. a chalcedonic precious.
Corner, mem'er, n. an angle.
[stone.]
  Cornet, kom'et, n. a brass instrument; a rank of cavalry officer now bolished
Cornetcy, kor'net-si, n. comet rank.
Cornice, kom'is, n. moulding close to ceiling.
Cornicelate, korniti-si, n. moulding close to ceiling.
Corniuce, korniti-si, n. moulding close to ceiling.
Corniute, korniti-si, n. morn of plenty.
Corniute, korn-ti-si, n. morn of plenty.
Corniute, korn-ti-si, n. the niner whorl of a flower.
Corollar, hor-ol'n. n. the niner whorl of a flower.
Corollar, kor-ol'n. n. an inference from facts.
Corona, kor-o'n. n. the projecting part of a comice;
                   the moon's halo.
 Coronach, kor'o-nah, n. funeral dirge. [monarch. Coronach, kor'o-nah, n. funeral dirge. [monarch. Coronation, kor-o-nah'shun, n. the crowning of a Coroner, kor'o-ner, n. one who presides at inquests. Coronet, kor'o-ner, n. a small crown worn by nobles Corporal, kor'o-nal, n. a petty officer; ad, relating to the budy.
 to the body.

to the body.

Corporate, kor po-rat, ad/. pertaining to a corpora-
Corporation, kor-po-ra'shun, n. a corporate body.
Corporati, kor-po're'al, ad/. maternal.
Corporati, kor-po're'al, ad/. maternal.
Corpose, kor, n. a body of soldiers.
Corpose, kor, n. a body of soldiers.
Corpose, kor, n. a body of soldiers.
Corpose, kor-pus'l. n. a nimute particle. [puscles.
Corpuscular, kor-pus'kin-l.n. ad/ relating to cor-
Corrad, kor'al, v. to surround; n. cattle enclosure.
Correct, kor-ekt', v. to make accurate n. nght.
Correlate, kor'cl-lat, v. to he mutually akin.
Correspond, kor-as-pond', v. to agree with; to ex-
     Correspond, kor-es-pond', v. to agree with; to ex-
change letters. [written letters.
     Correspondence, kor-es-pond'ens, n suitability;
Correspondent, kor-res-pond'ent, adj. agreeing with;
   correspondent, kor-res-pond'ent, adj. agroung with;
n. one who writes letters.
Corridor, kof'dor, n. a passage-way.
Corriginde, kor-i-jend'a, n. corrections.
Corroborate, kor-ob'ô-rât, v. to confirm.
Corroborate, kor-ôb'ô-rât, v. to confirm.
Corrodent, kor-ôd'ent, n. that which corrodes; adj.
having power to corrected.
     Corrodent, kor-o'dent, n. that which corrodes; as, having power to corrode.

Corrostve, kor-o'siv, ad, having the quality of corroctrogate, kor-o'siv, ad, having the quality of corroctrogate, kor'u-gat, v. to draw into folds. Giont.

Corrupt, kor-upt'ibl, ad, capable of corruption; corruption, kor-upt'ibl, ad, capable of corruption, tor-up'shun, n. unpurity. [pershable.
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Coraage, kor'sāj, n. dress waist.
Coraair, kor'sār, n. a pirato.
Coraelet, kors'et, n. a cuirass.
Coraet, kors'et, n. stays.
Cortege, kor-tāzh' n. a procession.
Cortes, kor'tez, n. Spanish parhament.
Coruceate, kor'us-Lāt, n. to flash.
  Correcte, kor us-kat, v. to hash.

Corvette, kor-vet', n. a small war vessel.

Corymb, kor'i-bant, w. a priest of Cybele.

Corymb, kor'i-bant, w. a priest of Cybele.

Corymb, kor'mub, n. a truncate cluster.

Corymbaeus, kor-i-fc'us, n. a chorus leader.

Cosmetic, kor-imik, adj of the universe. [plexion.

Cosmogony, koz-mog'o-n, n. the theory of origun.

Cosmography, koz-mog'raf-f, w. science of the earth's

constitution.
    constitution. [48 a whole. Cosmology, koz-mol'o-ji, n. the science of the world Cosmopolitan, koz-mo-pol'it-an, n. one who is at home anywhere.
                      anywhere.
              osmorama, koz-mô-râm'a, n. exhibition of world
     Cosmos, koz'mos, n. the physical world.
                                                                                                                                                                                                                                      [scenes.
  Cost, kost, n. charge; expense; price.
Costal, kost'al, ad/, perfaming to the ribs
Costermonger, kost'er-mung-ger, n. an itinerant
Costive, kost'iv, ad/, constipated, lyendor of catables.
 Costive, kostiv, ad., constipated. Ivendor of catables.
Costume, kostium, n. dress.
Cosy, kott, ad., snug: n. a teapot cover.
Cot, kot, n. a smalk-cottage; a child's crib.
Coterie, ko'ter-i, n. a group of persons with similar
Cotlilion, ko-til'yun, n. a kind of dance. [aums. cotton, kottun, n. the produce of the cotton plant, cloth made therefrom.
Cotyledon, kot-lid'don, n. the seed leaf.
Couch, kowch, n. a scat; a bed; n. to stoop down; Couchant, kow'chânt, ad. i lying down. [to hude. Cough, kof, n. noise made by throwing off palegm.
Couleur-de-rose, kool'er-de-rose, adr rosy.
Councills, kown'sil, n. a deliberative assembly.
Councillor, kown'sile, n. advice; an advocate.
Counsell, kown'sel-n, advice; an advocate.
Counseller, kown'sel-n, n. one who counsels. [title, Count, w. to number; n. esteem; a foreign
  Counseller, kown'set-or, n. one who counsel. [title. Count, kownt, n. to number; n. esteem; a foreign Countenance, kown'tenans, n. the face; n. to favour. Counter, kown'ter, and, ngainst; n. a shop tall. Counteract, kown-ter-akt', n. to go against Counterbalance, kown-ter-bal'ans, n. to weigh against. Counterfeit, kown'ter-fei; n. to imitate: n. something
  Countermand, kown'ter-mand, v. to revoke. [false. Countermarch, kown'ter-march, v. to march back. Countermark, kown'ter-mark, v. a mark of ownership
    put on goods. [motion,
Countermotion, kown'ter-mō-shun, #. an opposing
  Counterpane, kown'ter-pan, n. abed covering.

Counterpant, kown'ter-pan, n. a bed covering.

Counterpant, kown'ter-pan, n. a pant that corresponds to another

Counterplead, kown'ter-pled, v. to plead to the con-
  Counterplot, kown'ter-plot, v. to plot to thwart a plot.
Counterpoint, kown'ter-point, n. the art of combining
melodies.

Counterpoise, kown'ter-poix, v. to weigh against.

Counterpoise, kown'ter-poix, v. to weigh against.

Countersarp, kown'ter scarp, n the opposite side of
a ditch to that occupied by the besieged.

Countersirp, kown'ter-sin, n an authorising mark.

Counterstroke, kown'ter-strok, n. a return stroke.

Counterstroke, kown'ter-strok, n. a return stroke.

Counters, kown'tess, n. wife or widow of an earl or

Country, kown'tess, n. di, immunerable.

Country, kown'te, n. a kingdom; any land; a rural

Country, kown'te, n. a shire.

Couple, kup'l, n. a pau; v. to join.

Couple, kup'l, n. a pau; v. to join.

Couple, kup'le, n. a connection.

Couplen, kov plen, n. a certificate to be cut off.

Course, kov's, n. progress; career; race-ground; v. to

Course, kov's, n. progress; career; race-ground; v. to

Course, kov's, n. a fast horse.

['un; to hunt.

Course, kov's ing, n. hunting over a course.
                     melodics
  Coursing, korsing, n. hunting over a course.

Court, kort, n. an enclosed space; a hall of justice;
the surroundings of a sovereign; v. to solicit.
  Courteous, kurt'ë-us, ad/. polite.
Courtesan, kur'të-zan, n. a lewd woman.
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ENGLISH DICTIONARY.
       Courtesy, kur't.ef, n. civility.
Courtier, kort'ler, n. a frequenter of court.
Courty, kor'l, af. elegant.
Court-martial, kor' mar-shal, n. a court of officers.
Court-martial, kor' mar-shal, n. a court of officers.
Court-martial, kor' man-shal, n. a court of officers.
Court-martial, kor' man, a matter of an uncle or Core, kov, n. a small inlet.
Covenant, kuv'en-an, n. a mutual agreement.
Covenant, kuv'en-en, n. a mutual agreement.
Covent, kuv'er-let, n. a bed coverning.
Coverlet, kuv'er-let, n. a bed coverning.
Covert, kuv'er-let, n. shelter; the condition of Covet, kuv'et, o. to desire. [being a married woman Covetousness, kuv'et-us-ness, n. cager desire.
Covey, kuv', n. a brood of game.
   Coretousness, ktv'et-us-ness, n. eager desire.
Covey, kv'i, n. a brood of game.
Covin, ktv'in, n. a compact.
Cow, kow, n. female of the ox; v. to frighten.
Coward, kow'ard, n. one lacking in courage
Cower, kow'er, v. to shrink dowg; to crouch.
Cowl, kow, n. a monis' shood.
Cowlick, kow'lik, n. a hair-tuft on the forehead.
Cowpox, kow'poks, n. a disease in cows.
Coxcomb, koks'kòin, n. a fop.
           Coy, koi, ad). sliy.
           Cozen, kuz'en, v. to cheat,
         Cozena, knz cn, v. to cheat.
Cozenage, knz cn, v. to cheat.
Crab, krab, v. a shell-fish.
Crabbed, krab'd, av', sill-natured, harsh.
Crack, krak, v. to split: to emit a sharp sound; n. a
Crack-brained, krak'brand, av', crazy
Cracker, krak'er, v. dirework: a bis uit.
Cradle, krik'dl, n. a small bed for miants; a frame.
Craft, krah, v. cnnnue; trade.
      Cradle, kri'dl, n. a small bed for miants; a trame. Craft, kraft, n. cunning; trade. Craftsman, krafts'man, n. one engaged in n craft. Craftsy, kraft'i, ad deceithi; with skill. Crag, krag, n. a high rock. Cram, krain, v. to crowd; to stuff. Crambo, kram'bo, n. a rhynning game. Cramp, krain, n. a. a. a. rhynning game. Cran, krain, n. a. scotch measure for herrings [shrub Cran, krain, n. a. kind of bird, an apparatus for lifting heavy woments.
                               heavy weights.
           Cramal, kra'm-al, adv pertaining to the skull
         Craniology, kran-t-ol'o-jt, n. the study of shulls.
Cranium, kra'ni-um, n. the skull
           Crank, kiangk, z. a crook or bend; a whim.
       Crank, klangk, m. a crock or bend; a waim.
Cranny, krant, m. a clinik: a fissure.
Crape, krāp, m. a kind of black cloth used for mourn-
Crapulence, krap'ū-lens, n drink sickness. [mg wear.
Crash, krash, v. to dash into.
Crass, kins, v. to dash into.
Crass, kins, v. adj. coarse.
Crassamentum, kras-a-ment'um, n. the dense part of
Cratch krach, s a sealent um, n. the dense part of
Cratch krach, s a sealent
         Cratch, krach, n. a manger.
Crate, krat, n. a wicker case.
                                                                                                                                                                                                                                felotted blood
       Crate, krait, m. a where case.
Craunch, krawnsh, v to chew greedin.
Cravat, kravat', n. a kind of neckloth.
Crave, krav, v. to ask for; to beg, to see k
Craven, krav, v., to ask for; to beg, to see k
Craw, krav, n. the crop of fowls.
Craw, kraw, n. the crop of fowls.
Crawl, kraw, v. to creep
Cravon, krav, n. a balk penul for diawing.
Crayon, Kardon, R. a chalk penul for drawing
Craze, krāz, R. a passion. v. to confuse; to impair
Craziness, krāziness, R. siliness [mentaliy.
Crazy, krāzi, acī deranged
    Crazy, kraz-i, ad' deraiged
Cream, krein, no nly substance formed on milk.
Creates, kreis, n. mark mate by foding.
Creates, kreis, n. to originate.
Creator, kreis, n. no who creates; the Supreme
Creator, kreis, n. a public nursery.

Credence, kreisens, n. belief.
Credentials, kreisens stalis, n. letters of personal testip
Credentials, kreisens stalis, n. letters of personal testip
Credible, kreisens, n. belief.
Credit, kreisens, n. belief.
Credit, kreisens, n. belief.
Credit, kreisens, n. one to whom money is due.
Credulty, kreisens, n. one to whom money is due.
Credulty, kreisens, n. one to whom money is due.
Crede, kreisens, n. a small inlet or bay.

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Crumpet, krump'et, m. a kind of muffin.
Crumple, krump'l, v. to crease or wrinkle.
Crumch, krunsth, v. to crush with the teeth.
Cripper, krup'er, m. the leather that passes under a
horse's tall.
Crust krup'er, m. the leather that passes under a

norse's tail.

Crural, kroo'ral, as'. pertaining to the leg.

Crusade, kroosâd., s. a military expedition to the
Holy Land; any daring combined undertaking.

Crusader, kroosâ'der, s. one taking part in a crusade.

Cruse, krooz, s. an earthen pot.

Cruset, kroo'set, n. a goldsmith's crucible.

Crush, krush, s. to break by pressure; to ruin.

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PEARS' CYCLOPĂEDIA.
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Creep, krēp, v. to crawl.
Creeper, krē'per, n. a climbing plant.
Cremation, krē-mā'shan, n. the burning of the dead.
Cremated, krē-nā'ted, ad/, scalloped.
Creftelted, kren-el-ā'ted, ad/, indented, battlemented.
Creole, kib'd, n. a person of European descent born in South America or the West Indes. in South Almerica or the west lindes.

Creosote, kré'o-sôt, n. oil obtained from tar.

Crepitate, krep'i-tât, n. to crackle.

Cremseular, krep u-k'u-lar, anj relating to twilight.

Cresset, kres'ent, a. aj shaped like the new moon.

Cresset, kres'et, n. a non vessel for holding fire.

Crest, kres'et, n. an tron vessel for holding fire.

Crest, kres't, n. the summut; a cock's comb; the sur
mountment symbol of cocht of articles. Crest, krest, n the summit; a cock's comb; the surmounting symbol of a cost of arms.

Crestfallen, krest/Gasl en, ndf disheartened.

Cretaceous, kresti/shus, ndf, chalk like.

Cretinism, kret/m-izm, n mental and physical information, kreston, n, a figured cotton fabric used for innutine coverings, etc.

Crevasse, kre-vas', noc crack or opening in a glacier.

Crevasse, kre-vas', noc crack or opening in a glacier.

Crevasse, kre-vas', noc crack.

Crevalse, krov'el, n, a kind of woollen yarn. [feriority. Crib, krib, n a child's hed; v to shut in; to steal. Cribble, krib'l, n. a coarse sieve Click, krik, n a spasm. Cricket, krik'et, n a kind of grasshopper; a game. Crier, kri'er, n. a court officer; a bellman. Crime, krim, n. offence against the law Crimio, krini, n. offence against the law Criminal, krun'm-al, n. one guilty of crime; ady, per-Criminality, krim-m-al't-l, n. guilt. [taining to crime. Criminate, krun'm ät, v. to accuse. Crimp, kruny, v. to pkut: n. a decoy. Crimple, krunyl, v. to cuil. Gimson, krim'zn, n. a deep red colour. Cringe, krun; v. to bend fawingly. Crinkle, krunyl, n. oto bend fawingly. Crinkle, krunyl, n. oto bend fawingly. Crinkle, krinyl, n. oto, brinkle. Cricese, krinyl, n. oto, who is lune. Criss, kilss, n. a critical time. Criss, kilss, n. a critical time. Critic, krils, n. a professional reviewer. Critic, krit'ik, n a professional reviewer. Critical, krit ik-al, adv discriminating. Criticise, ki.t'i siz, w to pass judement on. Criciosin, krit'i-sion, w. the act of criticising. Cricique, i in 5k', m. a printed criticism umble; " the cry of a trog. Croaket, hre/ker, n. a grumbler, Crochet, kre/sha n a kind of fancy work. Crocodile, krok/o-dil, n a large coptile. Crocus, kro'kis, n, a plant Crone, kroin, n an old woman. Crone, kro'm, n a familiar friend. Crock, krook, n a curve; a staf. Croon, kroon, v to hum Cross, kros, n a gibbet; the instrument on which Chust was crucified, embent of the Christian re-fretchety, kro.lie.it, adv. whinscal, faildy. [ligion Croton-oil, kro/ten-oil, n. a purgative oil. Croupier, kroopeer, n. an assistant chairman Crow, kro, n. a land; the cry of the cock, r. to boast. Crowbar, Kro/bar, n. an iron lever Crowd, krowd, n. a collection of people; a mob. Crown, krown, n. a regal head adominent, the top of nything. Christ was crucified, emblem of the Christian re-Crown-glass, krown'glas, n a kind of window-glass.
Crucial, kroo'shi-al, adj. testiul.
Crucible, kroo'shi-al, adj. testiul.
[of the Cross Crucible, kroo'sible, n. a meltmg-pot. [of the Cross-Crucifix, kroo'si-fike, n. a cross, the sacred emblem Crucifixion, kroo-si-fik'shun, n. death on the Cross-Crucify, kroo'si-fike, n. to put to death by nailing to a Crude, krood, adj. rough, raw. [cross-Crucify, kroo'si-fike, n. unfinished, rule. Cruel, kroo'ci-fi, n. unfinished, rule. Cruel, kroo'ci-fi, n. harshness; arratality. Cruet, kroo'ci-fi, n. harshness; arratality. Cruet, kroo'ci-fi, n. finished, rule. Cruet, krooi, n. to sail about. Crueth, kromish, n. a fargment. C. dinble, krunib'l, v. to break in small pleces. (of the Cross

Crush, krush, v. to break by pressure; to ruin.
Crust, krust, n. outer-govering.
Crustaceous, krus-tā'šnus, adz. relating to shell-fish.
Crustate, krus-tā'šnus, adz. relating to shell-fish.
Crusty, krus-tā, adz. with a crust; surly.
Crutch, krus-ta, n. a support for one who is laine.
Crust, krus, n. ocross; a difficulty.
Cryophorus, kris-f'er-us, an instrument for measuring
Crypt, kript, n. an underground chapel [evaporation.
Cryptogamy, kript-og'ā-mī, n. the science of flowercryophorus programs of the second profile of the cryophorus programs. Cryptography, kript-og'raf-i, n. secret writing. Crystal, krist'al, ad/, transparent; glassy. Crystalline, krist'al-in, ad/, clear, transparent. Crystalline, Krist' 31-in, ady clear, transparent. Crystallise, krist' 41-iv, v. to form into crystals. Crystallography, krist-ul-og'-raf-l, v., the science of Cub, kub, v. a young bear. Cubature, ku'ba-tur, v., cube-finding. Cube, ku'b, v., a solid square. Cubic, ku'bik, ady, relating to a cube. Cubiform, k'u'ld form, an, in cube shape. Cubit, ku'bit, v. an ancient measure. Cubic, kii'bit, v. an ancient measure. Cuboidal, kū-bor'dal, ady. cube-like. Cuckold, kūk'old, z. a man deceived by his wife. Cuckook, kuk'old, n. a man deceived by his wife. Cuckook, kok'oc, n. a well-known bird. Cucumber, ku'kum-her, n. an oblong goen fruit. Cud, kud, n. food thats; re-chewed by ruminants. Cuddy, kud'l, n. a shift cabin. Cudgel, kin i, n. a shift; cabin. Cudgel, kin i, n. a shift. Cudgel, kin i, n. a shift. Cudgel, kin i, n. a shift. Cuffic, kin'fik, n. n'.! like the writings of Cuffic. Cuffic, kin'fik, n. n'.! like the writings of Cuffic. Currasser, kwe'ras-fr, n a cooking department. [currass. Cul-de-sac. hit de sak', n. a blind alley. Culhisery, ku'hn-att, ad, relating to cooking. Cull, kui, n to select. Cull, kul, . to select. Cullender, kni'er' der, n. a strainer,
Culloni, kni'y m. p. a ceward.
Culm, knim, n. stalk of corn or grass.
Culminate, kui'mañ, r. to get to the extreme gont.
Culpale, kui'mañ, r. to get to the extreme gont.
Culpale, kui'mañ, r. to me to blaine, or accused,
Culpale, kui'ra, r. to me to blaine, or accused,
Cultivate, kui'ra, r. to to til.
Cultivate, kui'ti-va, r. to to til.
Cultivation, kuil t'vā'shun, n. the art of cultivation;
Cultuse, kui'ra, n. refinement; learning
Culver, kui'ver, n. a coverd water channel
Culvert, kui'ver, n. a coverd water channel
Culvert, kui'ver, n. a coverd water channel
Culvert, kui'ver, n. a coverd water channel Cullender, kul'en der, n. a strainer. Culvertage, kul'-ver taj, n degradation. Cumbersome, kum'bersum act, burdensome.
Cumbrian, kum'brian, act, relating to Cumberland.
Cumbrian, kum'brian, act, leavy.
Cumin, kum'in, m an univelliterous plant.
Cumulative, kum'il-lit, v. to heap to rether.
Cumulative, kum'il-lit, v. to heap to rether in creasing
Cumulative, kum'il-lit, v. act, regularly increasing
Cumulative, kum'il-lit, v. act, let of cloud.
Cuneal, ku'in-lit, v. act, act, let of the
ancient Babylonian writing characters.
Cumiforn, ku'il-lit, orn, act, v. dege-shaped.
Cuming, kum'ing, act, sly, crafty; n skill.
Cup, kup, m, a vessel for holding liquid.
Cupboard, kull-letd, n, a storing-place for usable and
extable things. Cumbersome, kum'ber-sum, adj. burdensome. Cuphoard, kniverd, n. a storing-place for usable and catable things.

Cupellation, kū-pe-la'shun, n. the assaying of precious Cupid, kū'yod, n. the god of love.

Cupidity, kū-pid'ntl, n. greed.

Cupola, kū'po-la, n. a spherical vault, or concave ceil
Cupreous, kū'prē-us, aa/. containing copper. [ing.

Cur, kur, s. a common dog; a bearish fellow. c Curable, kur'shl, sett, healable. Curacoa, koo-rā-sō'a, s. a liqueur. Curacy, ku'ra-sī, s. the benefice of a curate. Curate, ku'rāt, s. an buder clergyman. Dab, dab, v. to strike lightly.
Dabble, dab'i, v. to play in water; to meddle with.
Dabbter, dab'is, v. an adept.
Dace, das, w. a small river fish.
Dactyl, dal'til, w. in peetry, a foot of three syllables.
Dado, da'do, w. the lower section of a wall-space;
Daff, daf, v. to play the fool. [body of a pedestal.
Daffodli, daf'odli, w. a yellow flower of the lily grder.
Daff, dat, daf, crazy.
Dagger, dag er, w. a short sword.
Dagger, dag l, v. to wet.
Daguerrotype, da-ger'o-tip, s. an old form of photo-Curate, kü'rāt, s. an under clergyman. Curative, kü'rā-tiv, adj. tending to cure. Curator, kū-rā'tor, s. a care-taker. Curb, kurb, v. to check. Curbstone, kerb'stone, n. a stone placed on the edge of a street footway.

Cure, kür, n. a remedy; v. to restore to health.

Curfew, kur'fü, n. an evening bell.

Curlosity, kür-fos'kt. N. inquisitiveness.

Curloso, kü-fos'oo, n. a curro bollector.

Curlous, kür-tos'oo, n. a curro bollector.

Curlous, kür-tos'un's strange; rare; inquisitive.

Curl, kurl, v. to twist; n. a ringlet.

Curlew, kur'lü, n. a wading bird.

Curment, kur'lü, n. a wading bird.

Currant, kur'ant, n. a kind of fruit.

Current, kur'en-si, n. the conage.

Current, kur'en-si, n. the conage.

Currici, kur'ikl, n. a two-wheeled vehicle.

Curriculum, kur-ltü-lum, n. a course of study.

Currier, kur'er-, n. one who curries leather. Curbstone, kerb'stone, s. a stone placed on the edge Dagger, dag', v. to wet.

Daguerrotype, da-ger'o-tip, n. an old form of photoDailila, dä'll-4, n. a flowering garden plant. [graph.
Daily, dä'n, ant. every day.
Dainty, dân'ti, ant. delicate; pleasing.
Dairy, dân'ti, ant. a place where milk is kept.
Dais, dâ'is, n. the raised part of a floor.

Dale, dâ'is, n. where milk of a floor. Dale, dal, s. a. the raised part of a floor.
Dale, dal, s. a valley.
Daleaman, dalz'man, s. a dale, dweller.
Dalliance, dal'I ans, s. trifling.
Dally, dal', s. to lose time. Curricle, kur'iki, **, a two-wheeled vehicle.
Curriculum, kur-ik'ū-lum, **, a course of study.
Currier, kur'i-er, **, one who curries leather.
Curry, kur'i, **, to dress leather; **, a peppery sauce.
Curse, kurs, **, to denounce; to execrate; **, the invoked evil.
Curser, kurs'er, **, despicable, hateful.
Curser, kurs'er, **, one who curses.
Cursive, kurs'er, **, defy, superficial.
Curs, kur, **, one who curses.
Cursive, kurs'er, **, defy, superficial.
Curt, kurt, **, df, short.
Curtain, kur-tāl', **, to shorten.
Curtain, kur-tāl', **, a pedang.
Curvet, kur-tal', **, a pedang.
Curvet, kur-tal', **, a pedang.
Curvet, kur-tal', **, a pedang.
Curtain, kus-to-tal', **, a pedang.
Curtain, kus-to-tal', **, a pedang.
Custom, kus-to-tal', **, a pedang.
Custom, kus-to-tal', **, a pedang.
Custom, kus-to-tal', **, a purchaser
Custom-house, kus-to-n-hows, **, a building where
customs, kus-to-ms, **, a purchaser
Customs, kus-to-ms, **, a durte-sor imports.
Customs, kus-to-ms, **, a durte-sor imports.
Customs, kus-to-ms, **, a durte-sor imports. Dam, n. confined water : mother. Damage, dam'aj, s. injury.
Damask, dam'as, s. a figured fabric.
Damaskeen, dam'as-kën, v. to decorate metal.
Dame, dam, s. matron; lady. Dame, dam, n. matron; lady.

Damn, dam, v. to condemn.

Damp, adj. moist; v. to dishearten

Damper, dam'per, n. an apparatus for regulating
currents; a check.

Damsel, dam'sel, n. a young woman.

Damseo, dam'son, n. a kund of phun.

Dance, dans, v. to gyrate to music; n. the act of

Dandelion, dam'de-h-on, n. a common yellow flower.

Dander, dan'der, v. to loiter; n. anger.

Dandle, dan dl, v to fondle, or toss up.

Dandruff, dan'duf, n. a fop.

Danger, dan'jer, n. peril. Dandy, dan'df, w. a fop.
Danger, dân'jer, w. peril.
Danger, dân'jer, w. peril.
Dangle, dang'l, v. to suspend slackly; to hang around.
Dangler, dang'ler, w. one who follows.
Danis, dangk, ast, damp.
Dapper, dap'er, ast, quick, handy, neat.
Dapple, dap'l, ast, spotted!
Darbyltes, dâr'b-irs, w. Plymouth Brethren.
Dare, dār, w. to be venturous, bold.
Dark, dārk, ast, devoid of light.
Darksome, dārk'sun, ast, gloomy.
Darling, da'ling, n. a loved one.
Darn, dārn, v. to mend with threads.
Darnel, da'r nel, n. a kind of grass. Customs are conected.

Customs, kust'oms, n. duties on exports or imports.

Cutaneous, kū-tā'ne-us, ad/, pertaining to the skin.

Cute, kū, ad/, clever, smart.

Cutsle, kū'tik'l, n. the outer skin.

Cutsle, kū'tik'l, n. the outer skin.

Cutlass, kut'las, n. a broad-word.

Cutlery, kut'ler, n. one who deals in cutlery. Darnel, dar'nel, n. a kind of grass.

Dart, dart, n. a short lance; v. to thrust; to rush.

Darwinism, dar'win-izm, n. the Darwinian theory of Dawinsan, dâr win-izm, n. the Darwinian theory of evolution.

Dash, v. to forow hastily: n. a blow; a flourish; a siight infusion; a punctuation mark (—).

Dastardiy, das'terd, n. a coward.
Dastardiy, das'terd it, ady, in a cowardly way.
Date, dât, n. a collection of facts.
Date, dât, n. a collection of facts.
Date, dat, n. a collection of facts.
Date, dat, n. a fruit; a precise period; v. to write the Dative, david; n. ady, that is given; the dative case in Daub, dawb, v. to smear.
Dauber, dawber, n. rough painting.
Dauby, dawb', n. af cmale child.
Daunt, dawnt, v. to frighten.
Daunt, dawnt, v. to frighten.
Daunt, dawnt, v. to frighten.
Davy, loses, dâv'd-jons', n. in sailor ingo, the spirit of Dawdle, daw'dl, v. to trifle; to waste time. [the deep. Dawk, daw, n. Indian post.
Dawn, n. the light of daybreak; v. to loom in view.
Day, n. the period of daylight; as hours.
Day-book, dâ'bbok, n. an account book for daily Daybreak, dâ'brôk, n. dawn. ' [entries.
Daysman, dâz'man, n. one who appoints a day.
Daze, daz', v. to scound.
Dazel, daz', v. to scound.
Dazel, daz', v. to confuse by light or b'illiance.
Deacon, dâ'kon, n. a church or chapel officer. ' schine; bold; pot; stôrm; mûte; túb; bûra. evolution. Gutlery, kut'ler, n. articles made by cutlers. Cutlet, kut'let, n. a slice of mutton or veal. Cutter, kut'er, n. a small ship. Cutter, kut'er, n. a small ship.
Cycle, si'kl, n. a circle; a round of time; a bicycle.
Cyclond, s'kloid, n. a figure like a circle.
Cyclone, s'kloin, n. a rotary storm.
Cyclope, si, si klope d'ala, n. a work of general inCyclope, si, klop, n. a fabled race of one-eyed giants.
Cygnet, sig'net, n. a young swan.
Cylinder, sil'inder, n. a circular body of equal
Cylindrical, sil in'drik-al, ad, in cylinder form.
Cymbal, sim'bal, n. a clashing muscal instrument.
Cymic, sin'ik, n. a morose sneerer.
Cynical, sn'ik-al ad, surly, saltrical.
Cynicism, sin'is-lam, n. heartlessness.
Cynosure, sin'c-shoor, n. that which arrests attention. Cynosure, sin'o-shoor, n. that which arrests attention. Cynosure, sin'o-shoor, n. that which arrests attention. Cypresa, si'pres, n. an evergreen. Cyprian, si'pri-an, adj. licentious. Cyprian, si'pri-an, adj. licentious. Cyprian, si'pris, n. a sort of crape. Cyrillic, sir-il'ik, adj. relating to the St. Cyril alphabet. Cyst, sist, n. a bag of morbid matter in animal bodies. Cytherean, si/n-er-c'an, adj. relating to Venus. Czardas, 2dr'das, n. a Hungarian dance. Czech, tshek, n. a branch of the Slav family.

Dead, ded, adj. destitute of life.

Deaden, ded'en, v. to impair.

Dead-freight, ded-frat, s. payment for unoccupied
Dead-fitt, ded lift, s. a lift made without aid. Dead-lights, ded lights, s. storm-shutters.

Dead-lights, ded lights, s. storm-shutters.

Dead-lights, ded lights, s. storm-shutters.

Dead-lock, ded light, s. a complete standstill.

Deadly, ded light, s. a complete standstill. Deadly, dec'il, adj. tatal.

Dead-reckoning, ded'rek'on-ing, n. log-book reckonDeaf, def, adj. deprived of hearing.

Deafen, de'in, v. to render deaf.

Deal-mute, de'fmüt, n. one deaf and dumb

Deal, del, n. a great quantity; a bargain; a kind of

Dealer, de'er, n. a trader. [wood; v. to distribute.

Dean, den, n. a church dignitary.

Deaner, de'in er, n. be office or house of a dean Deanery, der'er-I, n. the office or house of a dean. Dear, der, ad, costly; beloved. Dearth, derin, n. scarcity. Death, deth, n. the end of the
Death-warrant, deth worant, n. an order for execuDebar, debh', n. to exclude.
Debark, debh', n. to degrade.
Debase, debh', n. to degrade.
Debase, debh', n. to degrade.
Debasement, debh's nnt, n degradation
Debateh, debh', n. to degrade.
Debateh, debh', n. to pervert.
Debaucher, debauch'er, n. to me who corrupts.
Debaucher, debauch'er, n. an acknowledgment of debt.
Debitt, debh', n. somewho corrupts.
Debitt, debh', n. something due
Debonar, debo-nar', n. n. acknowledgment of debt.
Debouch, de-boosh', n. to macknowledgment
Debouch, de', n. waknowledgment
Debouch, de', n. waknowled Death, deth, n. the end of life. Debtor, det no wing.

Debtor, de loo', n a first appearance.

Decachord, dek'ā-kord, n an ancieni musical instru
Decade, dek'ād, n. ten year;

Decadence, dek'ā'dens, n decay

Decadence, dek'ā'dens, n decay

Decadence, dek'a'dens, n a figure of ten angles and

Decadence, dek'a'dens, n a solid figure of ten

Decalogue, dek'a-log, n. the ten commandments. Decangue, dek'a-log, n. the ten commandments. Decargeron, de-kamp', c. to steal away.

Decann, de-kamp', c. to steal away.

Decann, de-kamp', c. to steal away.

Decann, de-kamt', v. to pour off, as into a decaner deaner.

Decanter, de-kamt', v. to pour off, as into a decanter.

Decanter, de-kamt', v. to behead

Decapotate, de-kapt', de-kapt', c. to behead

Decapot, dek'à pod, n. a shellish of ten claws, as the crab

Decastyle, dek'a-stil, n portico with ten columns Decastyle, dek'a', r to fall off, to wither, n, corruption. Decease, de-se', n, death Decedent, de-se', dent, n, a deceased person. Decett, de-se', n, fraud, artifice. Decempedal, de-sen'yie-dil, adt, ten-footed Decemyi, de-sen'yir, n one of the ten magistrates of ancient Nome.

accent Rome.

Becency, de'sen-si, n. modesty; propriety.

Becental, de sen'sal, ad/ happening every ten years.

Decent, de'sent, ad/, decrous; proper, good.

Decentralisation, de-sentrali-za'shun, n. the act of withdrawing from central government.

Beception, de-sep'shun, n. imposition

Beceptive, de-sep'tiv, ad/ tending to deceive.

Decerption, de-serp'shun, u. a pulling off.
Decide, de-sid', v. to determine; to resolve.
Deciduous, de-sid'ū-us, ady falling in autumu,
Decimal, des'i-mal, n. a tenth; ady, by tens. Decimal, des'i-mai, n. a tentn; aar, by tens.

Decimate, des'f-nât, v. to kill every tenth man; to

Decipher, de-sirer, v. to make out [take a tenth part.

Decision, de-sizirus, n. a decermantion; a conclusion.

Deck, dek, v. to adorn, n. floor of a ship.

Declaim, de-klām', v. to harangue.

Declamation, dek-lam-d'shun, n. rhetorical speaking.

Declamatory, de-klam'st-on, ad/i noisily rhetorical.

Declare, de-klār', v. to avow; to publish

dāy; ăt; ârm; ēve; ĕlk; thêre; sce; pin; machine; böld; pŏt; stôrm; mūte; tūb; bûrn.

ENGLISH DICTIONARY. Declession, de-klen'shun, n. a falling off.

Declinable, de-kli'nā-bl, adj: capable of declination.

Decline, de-kli', n. to refuse; n. a falling off.

Declivity, de-kli', n. to bol.

Decoctd, de-kok', n. to bol.

Decoctd, de-kok', n. to bol.

Decoctdon, de-kok'shun, n. an extract obtained by

Decollate, de-kok'shun, n. an extract obtained by

Decollate, de-kok'shun, n. an extract obtained by Decolorant, de-kul'er-ant, s. a substance that extracts Decoloration, de-kul-er-à'shun, n. removal or absence Decompose, de-kom-pôs', v. to separate into original components; to decay. Decompound, de-kom-pownd', v. to compound again. Decompound, de-kombpownd', v. to compound again Decorate, dek'orait, v. to adorn.
Decorative, dek'orait, v. to adorn.
Decorative, dek'orait, v. to adorn.
Decorous, dek'orait, v. to appearance.
Decorous, dek'orait, v. to proper; beconing.
Decorous, dek'orain, n. becoming behaviour.
Decory, dekor', v. to allure; n. the thing used to lure.
Decrease, dekre's, v. udical order or judgment.
Decrease, dekre's, v. udical order or judgment.
Decreament, dekre'n-nient, n. the condition. of decrease.
Decreate, dekre'l, a. d., broken down. ling
Decreate, dekre'l, a. d., broken down.
Decreate, dekre'l, a. dr, relating to a decree.
Decrial, dekre'l, a. dr, relating to a decree.
Decrial, dekre'l, n. the act of decrying.
Decry, dekr', v. to discredit.
Decumbent, deklin-line, adf, lyng down.
Decuple, dek'i-pl, adf, tenfold. Decurrent, de-kur ent, ady, with a downward tendency. Decussate, de-kus'at, r. to cross.
Dedalous, dud'alus, adj. cleverly intricate.
Dedicate, ded'i-kāt, v. to devote to.
Dedicateon, ded-i-kā'shun, n. consecration; a dedicatory description in a book.

Deduction, de-div', 2v to infer.

Deduction, de-div', 3hun, 2v what is deducted. Deed, ded. n. exploit; document.

Deen, den, v. to suppose, 10 infer

Deep, ad, far down: profound, n. the sea; an abyss.

Deepen, de'pen, v. to increase in depth.

Deer, de'r, n. an annai.

Deer, de'r, n. an annai.

Deer, de'r, n. an annai.

Deface, de'clas', n. to doshgure

Defaceton, de'slak's', n. n. the act of disfiguring.

Defalcaton, de'slak's', n. n. one who inless default.

Defamation, de'slak's', n. n. one who inless default.

Defamatory, de-fam'a-to-ri. n.dr slander.

Default, de-faw', n. failure

Default, de-faw', n. failure

Defaulter, de-faw', n. n. dives

Defaustor, de-faw', n. n. dives

Defaustor, de-faw', n. n. dives

Defaustor, de-faw', n. n. dives Deed, ded, n. exploit; document

Defeasance, de-fez'ans, n. deleat Defeasible, de-fez'ibl, ady, cap ible of being annulled

Defeat, de-fet', v. to prevent to rum. Defecation, def-é-ka'shun, v. purification. Defect, de-fekt', n fault, omission Defection, de-fek'shun, n falling away, revolt,

Defection, de-fects in, m falling away, revolt.
Defective, de-fects in, m falling away, revolt.
Defence, de-fects in, protection.
Defend, de-fend', n to protect.
Defend, de-fend', n to protect.
Defendant, be fend'aut, n a defender.
Defendant, be fend'aut, n a defender.
Defenence, de-fer-n, n respect.
Deference, de-fer-an, n respect.
Deference, de-frant, ad, bold; showing respect.
Defiance, de-frant, ad, bold; showing defiance.
Deficiency, de-first in-st, n imperfection; shortcombefiet, de-fir-an, n anarrow pass; n, to file off.
Define, de-fir', n, to particularse, to explain.
Definite, defin', n, to particularse, to explain.
Definite, defin', n, to particularse, to explain.
Definite, defin', n, n arrow pass; n, to file off.
Define, de-fin', n, n arrow pass; n, to file off.
Define, de-fin', n, n arrow pass; n, to file off.
Define, de-fin', n, n, and n, n, a precise explaination.
Definite, definite, ad, h, defined.
Definite, de-fin', n, n, ad plimiting.
Defing ration, de-fila-gravishun, n, rapid combustion.
Deflorate, de-florat, ad; past flowering condition.
Deflorate, de-florat, ad; past flowering condition.

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Deflower, de-flowr', v. to deprive of flowers.
Defluxion, de-fluk'shun, w. a discharge of humour from the body.
Defoliation, de-fol-fa'shun, w. the shedding of leaves.
Deform, de-fors', v. to disfigure.
Deforming, de-form't, w. to disfigure.
Deforming, de-form't, w. to cheat.
Deforming, de-frawd', v. to cheat.
[deformed. Defraw, de-fize, w. to perfaw, de-fize, v. to cheat.
                                                                                                                                                                                                                                                                                                                                                                                                 Demise, de-miz', n. death,
Demission, de-mish'un, n. lowering,
Demiurge, dem'l-uri, n. the Gnostic Creator. [people.
Democracy, de-mok'râ-si, n. government by the
Democrat, dem'o-krat, n. one who supports demo-
Demolish, de-mok'ish, v. to destroy. [cracy.
Demolition, dem-o-lish'un, n. destruction.
                                                                                                                                                                                                                                                                                                                                                                                                   Demondary demon, n. a devil. v. to deprive of wone permonate, demon & devil. v. to deprive of wone bemoniac, de-mo'ni-ak, adj. relating to evil spirits. Demoniam, demon-izm, n. belef in demons. Demonolatry, de-mon-ol'4-rf, n. demon-worship.
       Defray, de-fra', v. to pay.
Deit, n. neat; dexterous.
     Defunct, de-fungkt', adj. dead.
Defy, def-i', v. to challenge; to oppose.
Degeneracy, de-jen'er-ā-si, v.:deternoration.
Degenerate, de-jen'er-ā-si, v. to become inferior.
                                                                                                                                                                                                                                                                                                                                                                                                   Demonstollary, de-mon-ol'o-li, n. the study of demons. 
Demonstrable, de-mon'stra-bl, adj. capable of proof. 
Demonstrate, de-mon'strat, v. to make clear; to prove. 
Demonstrate, de-mon'strat, v. to corrupt.
     Degluttion, de-gloo-tish'un, n. swallowing.
Degrade, de-grad', v. to lower.
Degree, de-grad', v. to lower.
Degree, de-gre', v. rank, quality.
Dehiscent, de-liis'ent, adj. gaping, as the capsules of Deliort, de-hor', v. to dissuade.
Deicide, de'i-sid, n. a gool-killer
Deify, de'if-i, v. to make a god of,
Deirn, dân v. to condescend.
                                                                                                                                                                                                                                                                                                                                                                                               Demoralise, de-inor al-lz, v. to corrupt.
Demotic, de-inor al-lz, v. to corrupt.
Demotic, de-motrik, ad/, popular.
Demulcent, de-inor al-lz, v. to object; to hesitate.
Demure, de-indr', ad/, modest_
Demure, de-indr', ad/, modest_
Demurre, de-indr', n. an affowance for delay.
Demurrer, de-indr', n. an one who demurs; a law plea.
Demy, de-ini', n. a size of paper.
Den, den, n. a cave; a wild beast's lair or cage.
Denary, den'ari, ad/, comprising ten.
Denaturalise, de-inar'u-al-lz, v. to deprive of natural
Dendriform, den'dri-form, ad/, tree-like.

[rights.
Dendroid, den'dri-form, ad/, in tree form.
Dendrology, den-dro'o-ji, n. the study of trees.
Denala, de-in'al, n. refusal; rejection.
Dengrate, den'i-gra, v. to blacken.
Denominate, de-non'i-st, v. to blacken.
Denominate, de-non'i-st, v. to designate.
Delicite, del'sia, n. n. nointer pelicite, del'sia, n. n. nake a god of, Deign, dân, n. to condescend, Deiparous, dê-ip'ar-us, ad., god-hearing. Deipnosophist, dip-nos'o-fist, n. a dinner-table talker. Deism, de'izm, n. belief in God, but not religion. Deist, de'ist, n. a freethinker. Detty, dê'ist, n. a freethinker. Detty, dê'ist, n. in Supreme Being. Deject'ide-jekt', v. to afflict; to cast down. Delate, de-lat', v.'to publish. Delay, dê-lât', v.'to publish. Delay, dê-lât', v.'to publish. Delay, dê-lât', v.'to retard; to postpone: n. hindrance. Delebte, de'f öbl, ad., capable of teleng blotted out, Delectation de-lekt'a-bl, ad., pleasing, delightful. Delegation, del-egat'shun, n. delight.
Delegate, de'ki', v. to take out: era-c.
Delette, de-lôt', v. to take out: era-c.
Delette, de-lôt', v. to take out: era-c.
Deletterious del-ê-tê'r'i-u, ad., huntful.
Delf, n. Delft ware.
Deliberate, de-lib' er-ât, ad., well thought out.
                                                                                                                                                                                                                                                                                                                                                                                               Denominate, de-non'in-ât, v. to designate.

Denomination, de-nom-in-â'shun, n. the act of naming; a tule; a sect.

Denominator, de-nom-in-â'shun, n. the act of naming; a tule; a sect.

Denominator, de-nom-in-â'tor, n. one who names; a Denote, de-not', v. to indicate. [term in fractions. Denouement, den-or'mong, n. the ending. Denounce, de-nouncy, v. to accuse; to expose. Dense, dens'. dens'. de quality of being dense.

Density, dens'. de, pertaining to the teeth.

Dental, dent'al, ad, pertaining to the teeth.

Denticle, den'. a, de, toothed.

Dentificle, den'. i-ik, n. a small tooth.

Dentificle, den'. i-ik, n. a, tooth preparation,

Dentificle, den'. i-i's, n. a tooth preparation,
                                                                                                                                                                                                                                                                                                                                                                                                     Denominate, de-nom'in-at, v. to designate.
   Deliberate, de-lb'er-åt, adj. well thought out. Deliberate, de-lb'er-åt, v to weigh carefully Delcacy, del't-kå-s, n. refinement; damtiness. Delicate, del't-kå-s, n. refinement; damtiness. Delicate, de-ls'-ka-s, d. highly pleasing Delight, de-li'. n. joy; pleasure, v. to please. Delmeate, de-lin'-è-ât, v to portrav. Delimeate, de-lin'-è-ât, v to portrav. Delinquent, de-ling kwen-si, n failur in duty. Delinquent, de-ling kwent, n. one who fails in duty. Deliquest, del't-kwâ- v to met. Deliquescence, de-lt-kwes'en, n hquefaction in the Delirous, de-lir'-lus, ad, light-headed. [air. Delipuin, de-lir'-lus, ad, light-headed.
                                                                                                                                                                                                                                                                                                                                                                                                   Dentifice, dent'i-form, add, in tooth shape.
Dentifice, dent'i-fis, n. a tooth preparation.
Dentist, den'i-st, n. a tooth doctor.
Dentistry, dent'i-str, n. the business of a dentist,
Dentition, dent-i-sh'un, n. the cutting of teeth.
Denude, de-nid', n. to lay bare; to unclothe.
Denunciation, de-nun-sha'-hun, n. arrangument.
     Delivium, de-lir'i-um, n. insanity: excessive excite-
Deliver, de-lir'er, v. to free; to hand over.
Deliver, de-lir'er, v. to free; to hand over.
Deliver, de-lir'er, v. the act of delivering.
Deli, del, n. a dale.
                                                                                                                                                                                                                                                                                                                                                                                                   Denunciation, de-niun-si-à'shun, n arraignment.
Denunciatory, de-niu's-â-tori, adr, threatening.
Deny, de-ni', v to contradict, to disown. [tons.
Deobstruent, dê-ob'stroo-ent, ad/. removing obstruc-
Deodand, dê'o-dand, n, a chattel forfeited to the
Deodorise, dê-ô'der-iz, v, to deprive of sinell [Crown.
Deomatology, dê-ont-o'oj, n, ethics.
Deoxidise, dê-ôks'id-iz, v to deprive of oxygen.
Denatt, de-part', v, to leave.
     Della Cruscan, del-a-krus'kan, adj. pertaining to a senumental Florentine school.

Delphic, del'fik, adj. oracular.
 Delphic, del'fik, adj. oracular.

Delta, del'ta, w. the fourth letter of the Greek alphabet (a); a tract of land of that form.

Deltoid, del'roid, w. a triangular shoulder muscle.

Deluge, del'tij, w. a flood.

Deluson, del-u'shun, w. a false belief.

Delusure, del-u'siv, adj. tending to deceive.

Delusory, de-lu'sori, adj. fallacious

Delve, delv, v. to dig.

Demagnetuse, de-mar'net-iz. v. to denrive of man
                                                                                                                                                                                                                                                                                                                                                                                                   Deontology, us-into 0-1, n. etnits.

Deoxidise, de-oks'id-iz, v to deprive of oxygen.

Depart, de-part', v to leave.

Departnent, de-part'inent, n. a section.

Departnent, de-part'inent, n. a subordinate: adj. re.

Dependence, do-pend'ent, n. a subordinate: adj. re.

Depict, de-picit', v. to portray. [lying upon.

Depit de-picit', v. to reduce: to lessen.

Depletton, de-pic'shin, n. the act of emptying.

Depletton, de-pic', v. to regree: to lament.

Deplore, de-plot', v. to open out.

Deploy, de-plot', v. to open out.

Deploy de-plot', v. to open out.

Deploraries, de-plot', v. to restif on oath.

Deponent, de-po-pent, n. one who testifies on oath.

Depopulation, de-po-pend-la'shuf, n. act of depopulate, de-port', v. to carry; to exile; to behave.
     Delve, delv, v. to dig.
Demagnetise, de-mag'net-iz, v. to deprive of mag-
Demagnetise, de-mag'net-iz, v. to deprive of mag-
Demanda, de-mand'aut, v. to require; to ask for.
Demandant, de-mand'ant, n. one who demands.
Demarcation, de-mark-a'shun, n. the act of marking
Demean, de-mer'n. v. to lower.

Dementia, de-mer'n. v. foult.
Dementia, de-mer'n. n. conduct; appearance.
Dementia, de-mer'n. n. fault.
Dementia, de-mer'n. n. fault.
Dementia, de-mer'n. n. amunorial estate.
     Demeane, de-mên', n. a manorial estate.
Demigod, den'i god, n. half a god.
Demijohn, dem'i god, n. a large bottle.
Demi-monde, dem-i-mongd', n. lewd women.
                                                                                                                                                                                                                                                                                                                                                                                                       Deport, de-port', v. to carry; to exile; to behave.
                                                                                                                                                                                                                                                                                                                                                                                                       Deportation, de-port-a'shun, n. transportation.
Deportment, de-port'ment, n. behaviour.
                                                                                                                                                                                                                                                                                                                                                                                                       Depose, de-poz', v. to remove from; to testify.
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pepasit, depoz'it, v. to place; to set down.
Depositary, de-poz'it-it-i, n. a person entrusted with
the sight keeping of anything; the place of deposit.
Deposition, depozish'un, n. act of testifying.
Depositor, depozish'un, n. act of testifying.
Depository, de-poz'it-or-i (same as Depositary).
Depository, de-poz'it-or-i (same as Depositary).
Depository, de-poz'it-or-i (same as Depositary).
Depot, dep-or, n. a station; storehouse.
Deprave, de-prav', v. to corrupt.
Deprasitor, de-pres', v. to make sad; to press down.
Depression, de-pres', v. to make sad; to press down.
Depression, de-pres', v. to take from.
Deptib, dép/h, n. deepness; profundity.
Depulsion, de-pui-'sun, n. grief; sadness; humiliaDeptib, dép/h, n. deepness; profundity.
Depulsion, de-pui-'sun, n. the act of driving away.
Depulsion, de-pui-'sun, n. the act of driving away.
Depulsion, de-pui-'sun, n. the deputed to act for another.
Depute, dép-it', v. to to confuse; to disorder
Derangement, de-ranj'ment, n. disorder; insanity.
Dereilst der'e-likt, n. a thing abandoned
Derellection, de-re-lik'shun, n. the act of torsaking.
Deride, de-rid', v. to taugh at; to scorn.
Derision, de-rid', v. to taugh at; to scorn.
Derision, de-rid', v. to deduce; to trace, to obtain
Derma, n. the skin,
Dermal, der-mal, adj, relating to the skin
Dermal, der-mal, secret.
Dern, n. the skin,
Dermal, der-mal, secret.
Dern, de-skrii', v. to deduce; to trace, to obtain
Dern, n. the skin,
Dermal, de-skrii', v. to nove down: to alight.
Descendant, de-skrii', v. to nove down: to represent.
Description, de-skrii', v. to nove down: to represent.
Description, de-skrii', v. to nove down: to represent.
Description, de-skrii', v. to nove down: to see.
Descrit, de-sent', v. to decoure;
Descrit, de-sent', v. to decoure,
Descrit, de-sent', v. to decoure,
Descrit, de-sent', v. to ment.
Descrit, de-sent', v. to ment.
Descrit, de-sent', v. to ment.
Descrit, d Deposit, depoz'it, v. to place; to set down. Desiceate, de-sak'at, to dry up.

Desideratum, de-sider-a'funi, a thing desired

Design, de-zin', v. to draw; v. a drawing or scheme.

Designate, de-zin', an', ro name

Designation, de-ig-n'i/shin, v. act of pointing out;

Designing, de-zin'ing, w. artful, scheming.

Lame.

Desirable, de-zi-ra-ld, adv. worthy of desire. Desire, de-zir', v to long for.

Desist, de-zist', v. to forhear

Desistance, de-zis'tans, n. a stopping Desist, de-21s'1, v. to tortear

Desistance, de-21s'1an, v. a stopping

Desk, desk, v. a writing table: a pulpit

Desolate, des'0-lat, v. to lay waste; ad', ununhabited.

Desolation, des-0-la'shinu, v. waste place; run

Desparth, des-parch', to despond v. hope 'essness.

Desparth, des-parch', to send away.

Desparth, des-parch', to send away.

Desparted, des'pre-at, ad', hopeless, rash

Despited, des'pre-at, ad', hopeless, rash

Despoted, des-pite', v. to spoil, to rola

Despoted, des-port', v. to spoil, to rola

Despondency, des-port', v. to spoil; to greve.

Despondency, des-port', v. to spoil; despoil; despoil; des'pot', v. ad', despected

Despote, des'pot', v. at yrun; an alsolute ruler,

Despote, des'pot', v. at yrun; an alsolute ruler,

Despote, des'pot', v. at, v. run; an alsolute ruler,

Despotent, des'pot-an, v. tyranny.

Despumation, des'pot-an, v. tyranny.

Desquaration, des-kwā-mā'shun, n. a scaling off.
Desart, de-zert', n an after-course of fruits, etc.
Desdination, des-tin-ā'shun, n. the appointed end; purpose. purpose.

Destine, des'tin, v. to design.

Destiny, des'tin-i, the appointed purpose; fate.

Destitute, des'tin-ii, ad, needy; in want; lacking.

Destitution, des-tit-ii'shun, n. extreme proverty.

Destroy, de-stroi', v. to pull down; to rum

Destructible, des-truct'ibl, ad; hable to destruction.

Destruction, de-struk'shun, n demoliton; rum.

Destructive, des-truct'e, adj. causing destruction; rumous rumous Desudation, des-û-dă'shun, n a severe sweating.
Desuetude, des'wet-ûd, n. disuse.
Desultory, des'û-lori, ad, rambling.
Detach, de-tach', v. to separate. Detachment, de-tach/ment, u. condition of separa-Detachment, de-tach/ment, n. condition of separation; a body of troops.

Detail, de-tâl', n. to particularise; n. a small part.

Detain, de-tâl', n. to loid back.

Detection, de-tek'shun, n. the act of discovery

Detection, de-tek'shun, n. the act of discovery

Detective, de-tek'tin, n. one of the secret police.

Detention, de-ten'shun, n. confinement; act of detaindeten, de-ten', n. to hinder.

Detergent, de-ter', n. to hinder.

Determinate, de-ter', n. to hinder.

Determinate, de-ter', n. to hinder.

Determinate, de-ter', n. to hinder.

Determination de-ter', n. to hinder. decided Determinate, de-ter'min-at, adj. fixed : limited Determination, de-ter nin-årshun n. fixed resolve. Determine de-ter/min. v. to limit, it decide. Determinism, de ter/min-ism, n. the cheory that motives determine.

Deterrent, de-ter/ent, \$\frac{ad}{n}\$, helping to deter: \$n\$ a Detest, de-test', v. to hate [preventive Detestable, de-test'abl, ad/, odious. Dethone, de-thon', v. to depose. Detinue, der'in-\(\frac{a}{n}\), n wint to re over goods withheld. Detonate, det'on-\(\frac{a}{n}\), v to explode Detonation, de to na'shun, n. an explosion.

Detour, de-toor', n. a minume; a trummer bettour, de-toor', n. a minume; a trummer a trummer and the determination of t Determination, de-ter min-a'shun n, fixed resolve. Detour, de-tour, n a winding; a turning
Detract, de-trakt', v. to take from to defame.
Detraction, de trak'shun, n depreciation Detractive, de 'rakt'n, ady, tending to depreciate. Detrain, de-tria', v. 'o p.ss from a railway tra'n Detriment, de't in nent, u dannage, inuny. Detrition, de-tri'lus, u a wassing away Detritus, de-tri'lus, u a substance worn away from solid bodies. Solid bodies.

Detrude, de-trood', z. to thrust down.

Detruncate, de-trung', k.it, z' to strike of'
Detruson, de-troo'zhun, z' the act of thrusting down
Deuce, dus', z, an exclanation | second marriage
Deuterogamist, dd-te-roga'n nist, z n n upholder of
Deuteronomy, unster-on'o-nit, z, the fifth book of the
Pentateuch. Devastate, dev'as-tāt, z to lay waste, to destroy Devastation, de-vast-ā'shun, n, the act of laying waste [prove. pevelop, develop, v to extend; to expand, to im-Developme t, development, n, a gradual expanding. zevetop, a ver op, v to extend; to expant, to imprevelopment, the evelopment, n, a gradual expanding, Devexity, the velshit, n a bending downward Deviatt, divisit, n, n a bending downward Deviate, divisit, n, to swerve Deviation, devisits, in, send-sh conduct. Devilry, devisit, n, fend-sh conduct. Devilry, devisit, n, wership, n, worship of devils. Devious, devisit, n, to blue or plot; to bequeath. Deviser, deviz', n, to plut or plot; to bequeath. Deviser, deviz', n, one who controves. Devisor, deviz', n, one who bequeaths. Devior, deviz', n, what is due. Devolt, devious', n, what is due. Devolution, dev-ohi'shun, n a passing from. [sion, devision, dev-ohi'shun, n a passing from. [sion, devision, dev-ohi'shun, n a passing from. [sion, devision, dev-ohi'shun, n and, connected with the geology of Devon, the Old Red Sandstone.

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Diffuse, dif-ūx', v, to spread.

Diffuse, dif-ūx', v, to spread.

Digastri, digas'rin, as a second marriage.

Digastri, digas'rin, adf, double-bellied.

Digest, dij-est', v. to dissolve in the stom'th; to con-
Digest, dij-est', v. to dissolve in the stom'th; to con-
Digest, dij', az', disposed; called.

Digrit, dij', n a finger or finger's-breadth.

Digrit, dij', n a finger or finger's-breadth.

Digritgrade, dij'ti-grād, ad, walking on toese.

Digryb, dig'ii, n. a double-grooved ornament.

Dignitary, dig'nit-nt, n. a person of rank.

Digraph, di'graf, n. two letters with but one sound.

Digress, v. to deviate.

Dike, n. a ditch.

Dilacerate, di-las'er-āt, v. to rend
   Devonport, dev'on-port, n. a small writing disk.
Devote, de-vôt, v. to set apart.
Devote, de-vôt, n. one religiously devoted.
Devotion, de-vôt, n. consecration; religious
 Devotion, de-vo'shun. n. consecration; religious feeling; attachment.
Devout, de-vowr', v. to eat up; to consume.
Devout, de-vowr', v. to eat up; to consume.
Dew, du, m. atmospheric moisture.
Dew, du, m. atmospheric moisture.
Dew, du, m. atmospheric noisture.
Dewpoint, dü'joint, n. flesh beneath the throat of Dewpoint, dü'joint, n. the temperature at which dew Dextert, deks'ter, ad/, on the right-hand side [falls, Dextertous, deks'ter-us, ad/, skilful; expert.
Dey, dā, n. a pasha.
Dhow, dow, n. a small Asiatic vessel.
Diabetes, di-ā-bô'ts-, n. a dusease of the urinary.
Dlaconat, di-ā-bô'ts-, n. a dusease of the urinary.
Dlaconat, di-ā-bô'ts-, n. a dusease of the urinary.
                                                                                                                                                                                                                                                                                                                                                                                                        Dilacerate, di-las'cr-āt, v. to rend
Dilapidate, di-lap't-dāt, v to pull to pieces; to allow
Dilate, di-lār', v. to expand. [to decay.
Dilatory, dil'ā-to-ri, ad/. slow.
                                                                                                                                                                                                                                                                                                                                                                                                    Dilatory, dil'ato-ri, ad/, slow.

Dilatory, dil'ato-ri, ad/, slow.

Diligence, dil'-jens, m. industry; attention.

Diligent, dil'-jens, m. industry; attention.

Diligent, dil'-jens, m. industry; attention.

Dilogy, dil'o-j, m. repetition.

Dilute, dil'di-in, m. repetition.

Dilute, dil'dil', v. to weaken.

Diluvial, di-iu'v-la, ad/, relating to a flood.

Diluvial, di-iu'v-la, ad/, relating to a flood.

Diluvian, dil-d'v-lum, m. a flood; deposit from water-

Dimension, dil-e'n-lum, m. a flood; deposit from water-

Dimension, dil-e'n-lum, m. a flood; deposit from water-

Dimension, dil-e'n-lum, m. a flood; deposit from water-

Diminution, dil-e'n-lum, m. a flood; deposit floor

Diminution, dil-e'n-lum, m. a flood; deposit floor

Diminution, dil-e'n-lum, m. a flood; deposit floor

Diminution, dil-e'n-lum, a floor

Diminution, dil
     Diadem, dřádem, n. a crown.
     Diæresis, di-er'e-sis, 2. the mark ( ) over two vowels
to indicate separate pronunciation. [symptoms.
   to indicate separate pronunciation. [symptoms. Diagnosis, di-ag-nô/sis, n. tracing a disease by its Diagnan, di-ag-onal, ad/. from angle to angle. Diagram, di'agram, n. a figure or plan. Diagnaph, di'agraf, n. a drawing instrument for perspective.
 perspective.

Dial, d'fal. n. the face of a watch or clock

Dial, d'fal. n. the face of a watch or clock

Dialectical, d'falek't.k-al, ad/; relating to discourse.

Dialectical, d'falek't.ks, n. the art of discussion

Dialist, d'fal-ist, n. a dial maker.

Dialogue, d'fal-igt, n. conversation.

Dialysis, di-al'is-is, n. separation of substances

Diameter, adj-ameter. n. the measure farough the

Centre of a circle.
                                                            pective.
centre of a circle
Diametrical, did-metrifical, had, relating to diameter.
Diamond, did-mond, n a precious stone.
Diamoetic, di-am-o-èt'ik, ad, capable of thought.
Diapoacin, di-à-pà'zon, n. an octave, correct pitch.
Diaphanetity, di-ad-in-èt'ici, ad, quality of trans-
Diaphanetity, di-ad-in-èt'ici, ad, quality of trans-
Diaphanetit, di-ad-in-èt'ici, ad, multimg perspiration.
Diaphragm, di'a fram, n. the midmf.
Diarist, di'ar-ist, n. a diary writer
Diarrhoza, di-a-rè'a, n. looseness of the bowels.
Diary, d'a-f, n. a daily record.
                                                                                                                                                                                                                                                                                                                                                                                                        Dimple, dimpl, n. a small hollow; a dent. Dim, din, n. noise; clatter, clamour Dine, din, r. to take dinner. Dingle, ding'g', n. a small narrow valley. Dingy, din'ji, ad/dim; dull
                                                                                                                                                                                                                                                                                                                                                                                                          Dinner, din'er, n the principal meal,
                                                                                                                                                                                                                                                                                                                                                                                                        Dint, n. a blow, or the mark or a prow, porce Diocesan, di-os'e-san, n. relating to a diocese Diocese, di-os-s, n. a bishop's territory. [light. adv. pertaining to refracted
                                                                                                                                                                                                                                                                                                                                                                                                        Dioptric, di-op'trik, ad., pertaining to refracted Diorama, di-or-am'a, n. an exhibition of moving pic-
   Diarraca, diarra, n. a daily record.

Diathermal, dia-ther mal, ad, permention of heat.

Diathorne, dia-ton k, ad, by tones
                                                                                                                                                                                                                                                                                                                                                                                                          Dip, v. to dive; to sink
                                                                                                                                                                                                                                                                                                                                                                                                      Dipetalous, di-pet'al-us, adj. with two petals.
Diphtheria, di-f-kë'ri-a, n. a throat disease | Sound.
Diphthong, di-f-köng, n. two towels combined in one
Diploma, dip-lo'mā, n. a certificate of honour
Diplomacy, dip-lo'mā, s.i. n. international negotiation;
skill in politis al witerours between there
 Diatribe, di'a-trib, n. a persistent discourse.

Dibter, dib'er, n. a tool for pricking holes.

Digacity, di-kas'(t-l, n. pertness

Dicephalous, di-ser'a-lus, adj double-headed.
                                                                                                                                                                                                                                                                                                                                                                                                                                 skill in political intercourse between states.
 Dichernatous, di-ser a-tus, aa/ double-neaded.

Dicherony, di-kot'o-mi, n. a division into two parts.

Dicker, dik'er, v. to harter.

Dickey, dik'i, n. a driver's seat; a gig apron.
                                                                                                                                                                                                                                                                                                                                                                                                        Diplomatise, dip-lô-mat'ik, adt. skilled in negotiation.
Diplomatise, dip-lô-mat'ik, adt. skilled in negotiation.
Diplomatise, dip-lô-mat-tist, one skilled in diplomacy.
   Dictate, dik-tat', v. to order; to speak words for another to write down. [command.
                                                                                                                                                                                                                                                                                                                                                                                                          Dipsomania, dip-so-mā'nī-a, n. a craving for in-
                                                                                                                                                                                                                                                                                                                                                                                                                               intoxicants.
another to write down. [command.]
Dictation, dik.ta'shin, n. act of dictating; assertive
Dictatorial, dik.ta'sb'ri-al, adr', authoritative
Diction, dik'shun, n. manner of speaking; style.
Dictionary, dik'shun-ar-i, n. a work setting forth word:
in alphabetical order, with their meanings.
Dictum, dik'tum, n. a saying.
Didactie, d-idak'tik, adr', instructive
Die, di. v. to cease to live; to wither; n. a stamp for
energying from.
                                                                                                                                                                                                                                                                                                                                                                                                        Dipteral, dipter-al, ad/, two-winged
Diptych, dipter, n folding tablets or pictures
Diradlation, di-radifashun, n light rays diffused
Dire, dir, ad/, dreadful, from luminous bodies.
                                                                                                                                                                                                                                                                                                                                                                                                        Direct, di-rekt', v to guide; adv. straight
Direction, di-rek'shun, n. act of direction; manage-
                                                                                                                                                                                                                                                                                                                                                                                                                                   ment; course; address
                                                                                                                                                                                                                                                                                                                                                                                                          Director, di-rek'tor, n. one who directs.
                                                                                                                                                                                                                                                                                                                                                                                                      Directory, di-rek'to-ri, n. book of names and addresses; a body of directors.

Direful, dir'ful, adj. terrible.
                               engraving from.
   Diet, di'et, n. food.
   Dietary, di'et-er-i, n. rules of diet; adj. selating to Dietetics, di-et-et'iks, n. the science of diet. [diet.
                                                                                                                                                                                                                                                                                                                                                                                                        Dirge, dirj, n. funeral hymn.
Dirk, dirk, n. a dagger.
Dietetics, dietetiks, n. the science of diet. [diet, Differ, differ, n. to vary; to disagree. Difference, differ-ens, n. dissimilarity. Different, differ-ens, n. dissimilarity. Different, differ-ens, n. dissimilarity. Differential, differ-ens, n. discerbing differences. Differentiation, differ-ens, describing differences. Differentiation, differ-ens, n. differentiation, n. the act of Difficult, diff-lult, n. d., ardious. Difficulty, diff-lult, n. obstacle; objection, Diffidence, diff-dent, adj. bashful; hesitation.
                                                                                                                                                                                                                                                                                                                                                                                                      Dirk, dirk, n. a dagger.
Dirt, dirt, n. mud; mire; filth.
Disability, dis-1-bil't-1, n. lack of power.
Disable, dis-3'-bil'k-1, n. dis-1-bil'k-1, n. dis-
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PEARS' CYCLOPAEDIA.

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Disannul, dis-an-ul', v. to nullify.
Disappear, dis-ap-per', v. to vanish.
Disappearance, dis-ap-per', ns. w. vanishing from view.
Disappoint, dis-ap-poin', v. to thwart of expectation.
Disappointment, dis-ap-poin'ment, n. grief at fallure, or non-gealisation of hopes.
Disapprobation, dis-ap-pro-ba'shun, n. censure;
Disapprobation, dis-ap-pro-ba'shun, n. censure;
Disapprobation, dis-ap-pro-ba'shun, n. censure;
Disapprobation, dis-ar-pro-very to condemn.
Disarm, dis-ar-ra', v. to deprive of arms; to quell.
Disarray, dis-ar-ra', v. to throw into disorder; n. underes.
                                                                                                                                                                                                                                                                                                                                                                                                              Disembawel, dis-embow'el, v to take bowels out of. Disemalle, dis-en-â'l), v to disable. Disemalle, dis-en-â'l), v to disable. Disemalle, dis-en-kum'ber, v, to disburden. Disemage, dis-en-â'l, v to relieve from engage-Disemalle, dis-en-tang'l, v, to remove from roll. [ment. Disematangle, dis-en-tang'l, v, to unravel. Disemalle dis-en-tang'l, v, to unravel. Disemalle dis-en-tang'l, v, to unravel.
                                                                                                                                                                                                                                                                                                                                                                                                                                            enthralment.
                                                                                                                                                                                                                                                                                                                                                                                                    enthralment.

Diseatem, dis-es-têm', m. disregard.

Disfavour, dis-fâ'vôr, m. lack of favour.

Disfavour, dis-fâ'vôr, m. lack of favour.

Disfavour, dis-fâ'vîr, m. to spoil the form of.

[rights.

Disfarce, dis-fran'chlz, v. to deprive of citizenship

Disgorge, dis-gra', m. loss of favour; dishonour.

Disguise, dis-gra', m. loss of favour; dishonour.

Disguise, dis-gra', m. loss of favour; dishonour.

Disguise, dis-gra', m. loathing.

Dish, dish, m. a food vessel.

Dishaballe, disa-la'f', m. undress.

Dishearten, dis-hâri'en, v. to discourage; to depress.

Dishevel, dish-ev'el, p. to disorder the hair.

Dishonest, dis-on'est, ady, devoid of honesty.

Dishonest, dis-on'est, m. shame.
Dianasociate, dis-ā-sō'shī-āt, v. to separate.
Dianaster, diz-as'ter, v. caismity, mulortune.
Dianastrous, diz-as'trus, adr. unfortunate.
Dianastrous, diz-as'trus, adr. unfortunate.
Dianavowal, dis-ā-vowal, v. a disclaimer.
Dianard, dis-bard', v. to disperse.
Dianard, dis-bard', v. to disperse.
Dishard, dis-bard', v. to deprive a barrister of bar privi-
Disburse, dis-berd', v. to deprive a barrister of bar privi-
Disburse, dis-berd', v. to deprive a burrden.
Disburse, dis-berd', v. to dispurden.
Disbursement, dis-berd's ment, v. a paying out.
Disc, same as Disk.
Discard, dis-kard', v. to throw away; to cast off.
                                                                                                                                                                                                                                                                                                                                                                                                                  Distances, cas-on est, acr, acrous or nonesty.

Distances, dis-on-est, n shane.

Distances, dis-in-klin-i-chun, n unwillingness.

Distances, dis-in-fekt, n to free from infection.

Distancestant, dis-in-fekt'ant, n a disinfecting agent.
  Disc, same as Disc.

Discard, dis-kārd', v. to throw away; to cast off.

Discard, dis-kārd', v. to perceive.

Discerning, dis-ern', v. to perceive.

Discerning, dis-ern'ment, w. alertness of judgment.

Disciple, dis-fiple, w. a follower.

Disciple, dis-fiple, w. a follower.

Disciple dis-fiple, w. a follower.

Disciple dis-fiple, w. a follower.

Disciplinarian, dis-fip-lin-ārl-an, w. an upholder of dis-fipline.
                                                                                                                                                                                                                                                                                                                                                                                                                  Disingentions, dis-in-jen'u.u., ad., insincere.
Disinherit, dis-in-her'it, v to desrive of inherisance.
Disinherit dis-in-ten', v to take from the grave.
Disinter, dis-in-ten', v to take from the grave.
Disinters de, dis-in-ten' et al., if the from self-
                                                                                                                                                                                                                                                                                                                                                                                                                Dismiterested, dis-in'ter-est-ed, adj. free from self-interest.
Disjoint, dis-join', v to separate what is joined.
Disjointed, dis-join'ed, adj. discoherent.
Disjointed, dis-join'ed, adj. disjoined.
Disjointed, dis-join'ed, adj. disjoined.
Disk, distored, dis-joined, leading to separation.
Disk, distored, dis-joined, leading to separation.
Disk, distored, dis-join'ed, adj. disjoined.
Dislocation, dis-jo-kh'sbun, n. displacement of a joint Dislodge, dis-join', v. to force from lodgment.
Dislogalty, dis-join'el-ti, n. faithlessness.
Dismad, dis-mai, adj. gloomy.
Dismast, dis-mai', v. to terrify: n. loss of courage Disme, diem, n. a tenth.
Dismemberment, dis-member-ment, n. the act os sestarating member from nember.
Dismiss, dis-mis', v. to send away.
Dismout, dis-mosi', v. to send away.
Dismout, dis-mosi', v. to refuse to obey.
Disobbedience, dis-o-bil'jing, ads, unweiling to oblige Disorder, dis-ord'er-li, adj. out of order.
Disorganisation, dis-or-gan-lzi'shun, n. the act of brown, both, v. to refuse to acknowledge.
Disciplinary, dis'ip-lin-ar-I, adf. in the nature of dis-
Discipline, dis'ip-lin, s. control; regularity; severe
                                                                                                                                                                                                                                                                                                                                                                                                                                            interest.
                                                                                                                                                                                                                                                                                                                                                                                                                    břeaking up.

Disowa, dis-ôn', v. to refuse to acknowledge

Disparage, dis-par'ā, v. to speak sightingiy of.

Disparate, dis-par'ā, v. to speak sightingiy of.

Disparate, dis-par'a, v. to part; to divide.

Dispassionate, dis-pash'un-āt, adr, calm; without

Dispassionate, dis-pash'un-āt, adr, calm; without

Dispatsh, dis-pel', v. to drive away 'to remove.

Dispensary, dis-pen'ser'i, n. place for dispensing

medicines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  breaking up.
                                                                                                                                                                                                                                                                                                                                                                                                                    Dispensation, dis-pen-sit'shun, n. an indulgence [tion. Dispensatory, dis-pen's 1-to-n. adv. granting dispensators, dis-pen's v. to distribute: to make up Disperse, dis-pen's v. to scatter. [inedicine. Dispersons, dis-per'nus, adv. with two seeds. Displirit, dis-pin'it, v. to discourage. Displace, dis-pia's v. to put out of place. Display, dis-pia', v. to exhibit: to parade. Display, dis-pia', v. to cause displeasure. Dispone, dis-pon', v. to convey or make over Dispone, dis-pon', v. to divert; to feel enjoyment. Disposal, dis-pia', v. to arrange; to give out. Disposition, dis-pia-zish'un, s. arrangement. Disposess, dis-pia-zos', v. to deprive of possession.
                                                                                                                                                                                                                                                                                                                                                                                                                          Dispensation, dis-pen-sā'shun, n. an indulgence [tion.
          Discursus, dis-kur'sus, n. argument.
Discursus, dis-kur'sus, n. argument.
Discuss, dis-kus', n. a quoit; a disc.
Discussion, dis-kusli'n, n. debate.
        Discussion, (us-tusu n. v. ucousta
Discain, da-dar', s. scorn.
Discase, diz-ëz', s. an aliment.
Discusse, dis-ër', v. to make blunt. •
Discussark, dis-en-bar's, v. to land from a ship.
Discussark, dis-en-bar'as, v. to free from per-
            plexity.

Disembody, dis-em-bod', v. to divest from the body.

Disembogue, dis-em-bog', v to discharge at the mouth
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dāy; ắt; ârm; ēve; ĕlk; thêre; tce; pin; machine; böld; pŏt; stôrm; mūte; tub; burn.

(branches.

ling.

```
Ditto, dit'o, n. the same.
         Dispraise, dis-praz', n. blame.
         Disproportional, dis pro por shun-al, adj. out of pro-
                                                                                                                                                                                                                                                                                                                               Ditty, dit'i, n. a song.

Diuretic, di-û-ret'ik, ad'i. assisting urinal discharge.
   Disproportional, dis-pro-por snun-al, dis-, oug-or pr
Disprove, dis--provi, v. to refute. "portio
Disputant, dis-'pai-tant, n. one who dispute." ["portio
Disputatious, dis-pai-dis-lus, ad., disposed to cavil.
Dispute, dis-pai-v. to contest: to deny; to discuss.
Disquality, dis-kwol'fl, n. to disable.
                                                                                                                                                                                                                                                         portion.
                                                                                                                                                                                                                                                                                                                            Diurnal, di-ur'nal, adj. daly. Ismoking room.
Divan, divan', n. a Turkish council; a sofa; a
Divarication, divar-ik-ā'shun, n. a divisien into two
                                                                                                                                                                                                                                                                                                                          Divarication, div-ar-ik-a'shun, n. a divisien int Dive, div, p. to plunge into water.

Diverge, di-verj', v. to turn apart.

Diverse, di-vers', adj. different.

Diversify, di-vers'-if, v. to make different.
 Disquainty, dis-kwo/f-th, v. to disable.

Disquiet, dis-kwi-et, n. unrest.

Disquiet, dis-kwi-et, n. unrest.

Disquiet, dis-kwi-et, n. unrest.

Disquisition, dis-kwi-etsh'un, n. an essay; an argumentative inquiry.

Disregard, dis-ro-gird', v. to dishke.

Disrepaint, dis-ro-pir', n. lack of repair.

Disreputable, dis-rep' it-dh, At', in evil repute.

Disrepute, dis-re-puir', n. disgrace

Disreputen, dis-reprisum, n. the act of rending asunder. (Dissentible, dis-re-puir', v. to duprive of possession.

Dissentible, dis-sen'ble, v. to disguise one's real thoughts

Dissenible, dis-sen'ble, n. one who dissembles.

Dissenibler, dis-sen'bler, n. one who dissembles.

Dissenibler, dis-sen'bler, n. disagreement; v. to disagree.

Dissentiont, dis-sen'shent, ad', disagreement; n. one who disagree.
                                                                                                                                                                                                                                                                                                                       Diversion, di-ver'shun, n. amusing.
Diversity, di-ver'sti-f, n. variety.
Divert, di-vert', n. to turn aside.
Divestiture, di-ves't-din, n. a stripping off.
Divide, div-id', v. to part asunder.
Dividend, div'f-dend, n. a share; interest divided,
Divination, div-in-d'shun, n. the art of prediction.
Diving, di-vin', ad, holy.
Diving-bell, di'ving-bell, n. an apparatus used by
Divinity, div-in'-i-t-f, n. the nature of God. [divers.
Divisible, div-la'bl, ad, capable of being divided.
Division, div-la'bun, n. act of dividing.
Division, div'zi'u, n., cansing division.
                                                                                                                                                                                                                                                                                                                       Divisive, di-viziv, ad., cansing division.
Divisor, di-vizor, a the number which divides.
Diviore, di-vizor, a the number which divides.
Diviore, di-vors', a separation of husband and wife;
Dividige, di-vil', a, to reveal. [a. to separate. Dizen, diz'en, r. to dress or array,
Dizziness, diz'l-ness, a, giddiness.
Doch-an-doris, dok-au-do'ris, a, a stirrup cup,
Docile, do-sil', ad, teachable.
Docimasy, do'slu-à-d, a the art of assay ng ore.
Dock, dok, a a basin for receiving vessels.
Dockage, dok'ij, a, dock for navd ships.
Dockord, dok'gard, a, dock for navd ships.
Dockord, dok'gard, a, the degree of doctor.
Doctrinare, dok'trui-ir, a a theorist
Doctrine, dok'trui-ir, a a fheorist
Document, dok'u-nent'ard, ad, relating to documentary, dok'u-nent'ard, ad, relating to documentary, dok'u-nent'ard, ad, relating to document.
                                                                                                                                                                                                                                                                                                                          Divisive, di-viz'iv, ad/, causing division,
                         wird disagree
   Nisortation, dis-ent d'shun, n a treatise, Dissertation, dis-ent d'shun, n a treatise, Disservice, dis-service, n. mjury. Disservice, dis-service, v. to part in two. Dissidence, dis-ui-lens, n. disagreement. Dissimilar, dis-sum-li-ar, ad) unlike. [Ing unlike, Dissimilar, dis-sum-li-a'shun, n. the act of render-
Dissimulation, dis-sim-di-d'shun, n. the act of render-

Dissipate, dis-fpit'vet, net, to scatter; to waste.

Dissipated, dis-fpit'ed, nd/, addicted & drink or

losse live.g.

Dissociate, dis-so'shi-ti, n. to part from.

Dissociate, dis-so'shi-ti, n. to part from.

Dissolute, dis'o lint, n d. loose; lewd.

Dissolute, dis'o lint, n, to beak up; to melt.

Dissolvent, di-zolv' n. to break up; to melt.

Dissolvent, di-zolv' ent, n having the power to melt.

Dissolvene, dis'o-name, n. discorri-
    Dissonance, discensis, n. discord against fagamst. Dissonance, discensis, n. discord against fagamst. Dissuasion, discensishun, n the act of persuading Dissyllable, discellable, n. a worl of two slittles. Distaff, distaff, n staff used in hand spinning.
                                                                                                                                                                                                                                                                                                                          Dodecagon, do-dck'a-gon, n. a plane figure of 12 sides.
                                                                                                                                                                                                                                                                                                                       Dodecagon, do-dek'a-gon, n. a plane figure of 12 sides, Dodge, doj, n' to evade. Dodo, div'do, n. an extinct bird of the turkey genus. Doe, do, n. female deer. Doff, dof, n. to take off; undress. Dog, n. a domesta anund; n. to follow close, Dog-days, dog'dán, n. the period of the dog-star's prominent of July 3 to Aug. 11). Doge, doj, n. the chief magnatrate of ancient Venice, Dogged, dog'ed, ad, b. sullen, dolstinate, persistent. Doggerel, dog'er-el, n. commonplace verse.
    Distance, distans, n stan acce an mana again.

Distance, distans, n remoteness, reserve.

Distant, distant, ad/ far of; remote; cool.

Distasteful, distast/ful, ad/, unpleasing

Distemper, distens/ n a disordered condition;

glease in young dog.
      Distend, dis-tend', v to stretch
 Distend, dis-tend', v to stretch
Dist ch, divite, n a couplet
Dist th, divite, n a couplet
Dist th, divite, n a couplet
Distill, dis-till', n to flow gently, to extract spirit from
Distillery, dis-tillerk', n, place where spirits are dis-
Distinct, dis-tingk', adj, dufferent; clear
Listenctive, dis-tingk', n, dis-
Distinctions, dis-till', n, dis-
Distinguished, dis-tillery gwishd, adj, eniment.
Distortion, dis-till', v to confuse.
Distraction, dis-till', v to confuse.
Distraction, dis-till', v to serve goods for retul or debt
Distraction dis-till', v to serve goods for retul or debt
                                                                                                                                                                                                                                                                                                                            Dogma, dog'nin, n a settled doctrine.

Dogmatics, dog mat'iks, n, systematic theology.

Dogmatise, dog'mat'iz, v, to speak or write ar-
                                                                                                                                                                                                                                                                                                                                               roganth
                                                                                                                                                                                                                                                                                                                          roganny.

Dog matism, dog må tizm, n positive assertion.

Dog-tooth, dog tooth, n a kind of ornamental mould-

Dog-watch, dog woch, n, two hours' watch on ship-

board
                                                                                                                                                                                                                                                                                                                            Doily, dor'll, n. a kind of woollen fabric; a napkin.
                                                                                                                                                                                                                                                                                                                         Doily, doi'u, n. a kind of woollen more; a napkin. Doily, doo'mgs, n. happenings; events. Doit, dent, n. a small Dutch coin; a valueless thing. Dole, doi, n. to deal out; n. a charitable donation. Dolenla, doi'lul, a.dr. sad. Dollachos, doi'l kos, n. a genus of leguminous plants. Doll, dol. n. a pupiet. Dollar, doi'er, n. a silver com. Dolmen, doi'unen, n. a stone table.
    Distram, dis-tran', v to seize goods for rent or debt
    Distress, dis-tres', n. suffering, act of distribute, dis-trib'ut, v. to give away among a
                         number
   number.

Distribution, dis-trib-ü'shun, n classification; allot-
District, dis'trikt, n. a defined locality. [ment. 
Distrust, dis-trust', n. want of faith. 
Disturb, dis-trust', v. to disquiet, to upset, 
Disturbance, dis-tur'bans, n. tuniult. 
Distyle, dis'til, n. a two-columned portico. 
Disunion, dis-ūn'yun, n. lack of concord. 
Disunite, dis-ūn'yun, n. a lackor ocnord. 
Disunite, dis-ūn'yun, a failing out of use. 
Disusage, dis-ūs', v. to give up a custoin. 
Disch, dich, n. a trench.
                                                                                                                                                                                                                                                                                                                         Dolmen, dol'men, n. a stone table.

Dolomite, dol'om-it, magnesum limestone,
Dolour, dol'er, n. grief; sadness.
Dolphin, dol'fin, n. a large sea animal,
Dolt, dolt, n. a stupid fellow.

Doltish, doll'ish, n.tl. foolish.

Domain, do-main n. an estate.

Dome, dom, n. a large cupola.

Domestic, do-mes'tik, ad. portaining to the home.

Domesticate, do-mes'tik, at, v. to make domestic; te
   Ditch, dich, n. a trench.

Ditheism, di'/he-izm, n. belief in two gods.

Dithyrambic, dith i-ram'bik, adj. wild and boisterous.
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Drama dram's, n. a stage representation; a dramatic wos.
Dramatise, dram's-tiz, v. to put in play form.
Dramatis persone, dram's-tis per-so'nē, n. the characters in a play.

PEARS' CYCLOPAEDIA.

Domicile, dom'is-il, n. a dwelling.

Domicile, dom'is-il, n. a dwelling.

Domiciliary, dom-is-ii'-lar-i, ad/p pertaining to the
Dominant, dom'in-ant, ad/p prevailing.

Domination, dom-in-is', n. prevailing.

Dominicon, dom-in-is', n. to command haughtily.

Dominican, dom-in-ik, relating to Our Lord.

Dominican, dom-in'ik, relating to Our Lord.

Dominicon, do-min'yun, n. control; rule.

Dominion, do-min'shun, n. grit.

Domed, don'shun, n. grit.

Doned, doned, n. the recupient of a grit.

Doned, doned, n. the recupient of a grit.

Doned, don's, n. the recupient of a grit.

Doned, don's, n. the recupient of a grit.

Doned, don's, n. the recupient of a grit.

Domed, don's, n. the grit.

Domed, don's, n. the day of doom.

Dor, n. a droning beetle.

Dori, dor'in, do''s, n. a sleeping.

Dormen, dor'mant, ad/, sleeping.

Dormen, do''neant, ad/, sleeping.

Dormen, do''neant, n. a sleeping chamber.

Dormouse, dor'news, n. a sneeping chamber.

Dorsal, dor'sal, ad/, relating to the back. Dorsal, dor'sal, adr. relating to the back.
Dose, dos, a. a portion.
Dossil, dow'il, a plug.
Dot, m. a small pointed mark Dot, **, a small pointed mark
Dotage, do'ty, **, dotting; childish,
Dotal, do'ty, **, dotting; childish,
Dotal, do'tal, **, and relating to dowry.
Dotard, do'tard, **, one who is dotting
Dotation, do'ta'shun, **, an endowment,
Dote, do't, **, to show excessive love.,
Double, doub't, **, ad, **, two-fold; **, to make two-fold; to
yeer round a headland
Double-dealing, dub't-dô-ing, **, duplicity
Double-entendre, doob't-ong-tongd'r, **, a word of
double meaning,
Double-told/fict, **, a carment; a pair double meaning.

Doublet, dub'iet, m, a garment; a pair

Doubling, dub'ing, m, act of inaking double; a fold

Doubloon, dub-lom', m an old Spanish con.

Doubt dowt, m, distrist, v: to distrist; to hesitate.

Doubthal, dow'ful, ad/ not clear; uncertain.

Douceur, doo-ser', m a present

Douche, doo-sh, m water-jet thrown on the body.

Dough, do, m incad in its unbaked form.

Doughty, dow'fil, ad/ string, hardy.

Doughty, dow'fil, ad/ string, hardy.

Doughty, dow'fil, ad/ string is dough-like

Douse, dows, w, to extinguish, to plunge into water.

Dove, duw, m, in pigeon

Dove-cot, duv'kot, m, a pigeon's house

Dovetail, duv'fil, m, jointed boards, w to fit one

thing into another.

Dowager, dow'a jer, n a dowered widow. Dowager, dow'd jer, n a dowered widow. Dowdy, dow'dl, n an untidy tem ile, adn untidy. Dowel, dow'el, n a fastering pin of wood or iron. Dowel, dow'd, n an unity rein le, aa, unity, bowel, dw'd, n a fasteting più of wood or iron. Dower, dow'er, n, a jonture to a widow. Downs, dow'las, n, a coarse linen fabrie. Down, down, n soft hair or feathers; a hill; adv. below; dejected; pref, along a desceut. Downous, dow'ni, adj soft Dowry, dow'ni, adj soft Dowry, dow'ni, nd dower Doxology, doks-ol'o-ji, n a laymn of praise. Doze, doz, n, a light sleep. Dozen, duz, n, n twelve. Drab, drah, n, a low woman; a dull brown colour. Drachin, drain, n, dram praconie, drah'l, n, to sunear with mud and water. Drachin, drain, n, dram Draconie, drah'k'nik, ad/, severe. Draft, draft, n, anything drawn; an order for money. Drag, drag, v, to draw by force.

Dragbar, draft n, an uron bar for coupling rallway carriages together. Carriages together.

Draggle, drag'l, v. to drag through wet. Dragnet, drag'net, n. a net for bottom fishing.
Dragnet, drag'net, n. a net for bottom fishing.
Dragnet, drag'o-man, n. an Eastern guide.
Dragon, drag'o-man, n. an Eastern guide.
Dragon, drag'on, n. a fabulous wriged monster.
Dragon, drag'on pn. a soldier of the heavy cavalry.
Drain, drain, n. water channel; v to draw of; to
Drainage, dra'nii, n. a system of drams.
Drake, drain, n. the male of the duck.
Drain, n. a spirit measure.

Drape, drap. v. to cover; to clothe.
Drapery, draperd, v. cloths and stuffs; fabrics geneDrastic, dras tik, adf, active; thorough.
Draught, draft, w. air current; act of drawing, outline; depth to which a ship sinks into the water. Draught-horse, draft'hors, n. horse used for drawing Draught-horse, draft/hors, n. horse used for drawing heavy loads.
Draughtsman, drafts/man, n. one who draws plans.
Draw, draw, n. to pulf; to allure.
Drawback, draw'bak, n. a disadvantage.
Drawbacke, draw'bak, n. a disadvantage.
Drawbacke, draw'bak, n. a disadvantage.
Drawwer, draw'ci, n. the person on whom a bill of ex-Drawer, draw'ci, n. the person on whom a bill of ex-Drawer, draw'ci, n. a sketch or picture.
Drawing-room, draw'ng-room, n. a room in which to entertum compan;
Drawl, drawl, n. to speak slowly.
Drawn, drawl, n. to speak slowly. Drawn, drawn, ad., undecided
Dray, drā, n. a cart for heavy burdens.
Dread, dred, n. fear; awe.
Dreadnaught, dred'-nawt, n. a thick protective garment Dreadnought, dred'nawt, s a modern type of battle-Dreamought, dred hawt, n a mought type of battle-pream, drem, n, fancies in sleep, a reverie. [slip. Dreamy, drein'i, adv. full of visions Dreamy, drein'i, adv. full of visions Dreamy, drein'i, adv. full of visions Dreage, dred; n. to spinisle, n. an oyster net. Dreager, dredj'er, n. a dreaging boat, one who fishes with a dredge. with a dredge.

Predging-box, dredging-boks, n. a box for dredgingDredging-box, dredging-boks, n. a box for dredgingDregs, new-elment, grounds; impurities
Dreisch, drensh, n. to make completely bet.
Dresser, dres'er, n. ook who dresses; a kitchen sideDressy, dres'er, n. ook who dresses; a kitchen sideDressy, dres'er, n. ook who dresses; a kitchen sideDressy, dres', n. of of of dress.
Dribble, drib'le, n. to-be'll in dreps.
Drible, drib'le, n. a small drop.
Drift, drift, n. imass of driven inatter, the direction
Drift, drift, n. imass of driven inatter, the direction
Drift, drift, n. imass of driven inatter, the direction
Drift, drift, n. imass of driven inatter, the direction
Drift, drift, n. to bexelve, footning.
Drill-plough, drift/box, n. a plough for drill-sowing.
Dripping, drip'ing, n. fa' dropped from roasting meat.
Dripstone, drip'i-fon, a a projection over doorways
for throwing off rain.
Drive, driv, t. to pash forward; n. a carraige road. Drive, driv, r to push forward; n. a carraige road.
Drivel, drivel, n. noncones
Drivellet, drivel-er, n. a fooush talker.
Drizzle, driv'l, n. smail ram
Drizzle, dra'l, n. smail ram
Drizzle, dra'l, n. smail ram Drollery, drollers, n. mirth, fun Dromedary, drum'e-dar-f, n. a one-humped camel. Drone, dron, n. the male bee, an alle fellow. Drone, dran, n, the male bee, an alle fellow. Droop, droop, v to languish, to sink. Drop, drop, n, a globale of moisture, r to let fall. Dropsical, drop/siskal, a.j., afflicted with drop'sy. Dropsy, drop'si, n, water in the bedy Drosky, droo'si, n, a Russian cab.

**Dross, drow's, n, metal refuse Drought, drowt, n, dry, ness Drove, drow, n a number of animals being driven. Drover, drower, n, cattle driver.

*Drover, drown, r to surrocate in water; to inundate. Drown, drown, ** to sunoate in water; to mundate. Drowniness, drow/falness, ** sleepiness. Drubbing, drub'ing, ** n, a leasting. Drudge, drup, ** to toil hard; ** n one who works mard Drudgery, drup'er*, ** n hard toil. [And long. Drug, drug, ** n, a substance used in medicines, ** v. to secretly administer a drug. Drugget, drug'et, ** n, a coarse carpet. Drugget, drug'et, ** n, one who sells drugs. Druddism, drow'id, ** n, ** one who sells drugs. Druddism, drow'id, ** n, ** n Druidical doctrine. Drum, drum, ** n, ** a musical instrument; part of the ear Drum-major, drum'mhjor, ** who sergeant drummies. DrumEard** pdruggk'erd, ** n, ** an habitual drinker.

Drunkenness, drungk'en-nes, n. alcoholic intoxication. Drupaceous, droo-pa'shus, adj. relating to stonf, fruits. Dry, dri, adj free from mosture.

Dryad, dri'ad, n. a wood-nymph.
Dryasdust, dri'az-dust, n. a learned pedant.
Dry-goods, dri'goodz, n. drapery.
Dry-rot, dri'rot, n. decay of timber by fungoid Dryssalter, dri-salt'er, n. a dealer in drugs. [growth. Dual, di'al, adj. double.
Dual, bi'al, adj. double.
Dual, bi' n. name: to confer. Dyke, see Dike. ' Dualism, di'ai-izm, n. belief in two gods.
Dub, n. to name; to confer.
Dublety, dis bi'et-i, n. doubtfulness.
Dublous, di'bi-us, anj, doubtfulness.
Dublous, di'bi-us, anj, doubtful
Ducal, dik'at, a foreign coin.
Duchess, duch'as, n. the wife or widow of a duke.
Duchy, duch'i, n. a dukedom.
Duck, duk, n. a web-footed fowl; a coarse cloth; n. puck, duk, n. a web-footed fowl; a coarse cloth; n. puck, duk, n. a web-footed fowl; a coarse cloth; n. puck, duk, n. a web-footed fowl; a coarse cloth; n. puck, duk, n. a web-footed fowl; a coarse cloth; n. puck, duke, n. a n. proper; timed to arrive.
Duck, du'el, n. an arranged fight between two persons.
Duelist, du'el-ist, n. one who fights a duck.
Duenna, di-en'A, n. an elderly woman guardian.
Duet, du'el, n. composition for two instruments or Duffel, du'l, n., a coarse woollen cloth. [voices.
Duffer, du'er, n. z. a sueless person. Duffer, duf'er, n. a useless person. Duner, dut et, m. a useress person.

Dug, ne, npple; pes, of dig.

Dugong, dugong; n an herbivorous whale.

Duke, duk, n, the next noble title below prince

Dukedom, duk'dom, n. rank or territory of a duke

Dulciet, dul'set, ady, sweet; soft; melodious.

Dulcify, dul'si-fl, v. to sweeten

Dulcimer, dul'si-mer, n. an instrument of wire strings.

Dull dul ady, stund Dulcimer, dul'si-mer, n. an instrument of wire straigs.
Dull, dul, adj. stupid.
Qullard, dul'erd, n. a dunce.
Duly, du'll, adj. fitly,
Dumb, dum, adj. speechless
Dumb-bells, dum'bely, n. weighted instrument for
Dumb-bounded, dum'fownd-ed, a.tj. stricken dumb with amazement. Dummy, dum's, n a sham article; an effigy Dump, dump, v. to unload.
Dumpish, dump'ish, adv depressed Dumpling, dump'ling, n. a kind of boiled pudding Dumps, dumps, n mopingness.

Dumpy, dump'l, adj short and fat. Dun, n. one who solicits payment. Dunce, duns, n. a stupid person Dunce, duns, n. a studid person
Dunce, din, n. a sandhull.
Dungeon, dun'jun, n. a dark prison cell.
Duodecimo, dü-o-des'i-mô, a sheet of 12 leaves
Duodecimple, du-o-des'i-mô, a twelt-efold
Duodenum, dü-o-de'num, n. the first part of the
sgnall intestines. Dupf, to unfasten.

Dupe, dup, n. one who is cheated, v. to deceive

Duplex, du'pleks, adv. double.

Duplicate, du'pleks, adv. double.

Duplicate, du'pleks, n. another' of the same kind;

Duplicaty, du'pleks, n. decert; double-dealing.

Durable, du'rabl, n. constraint; imprisonment.

Duration, du'ras'shun, n. length of time.

Durbar, du'rbar, n. a reception of Indian princes.

Durbar, du'rbar, n. a reception of Indian princes.

Dusks, n. knight; adv. dark-coloured.

Dusky, du'kl, adv. obscure.

Dust, dusk, n. dry powdery earth; v to brush off dust.

Dutt, du'tl, n. what is due; regard; obedience; tax Dup, v. to unfasten. Duty, du'ti, n. what is due; regard; obedience; tax on goods.

Duumvirate, dū-um'vir-āt, n. an office filled by two
Dwale, dwāl, a name for the deadly nightshade. [men.
Dwarf, dwawrf, n. a diminutive animal or plant. Dwell, dwel, v. to inhabit.
Dwelling, dwel'ing, n. an abode.
Dwindle, dwind'l, to grow less; to decline.

Dye, di, v. to colour; n. colour.

Dyeing, di'mg, n. the art of dyeing.

Dyer, di'er, one who practices dyeing.

Dying, di'ing, adj. declining; expiring.

Dyke, see Dilv. [motion.]
Dynamics, di-nam'iks, n. the science of matter and
Dynamite, di'nam-k, n. a powerful explosive.
Dynasty, din'as-ti, n. a succession of rulers of the
same family.
Dysentry, dis'en-ter-l, n. a disease of the intestines.
Dyspepsy, dis-pep'st, n. bad digestion. [tion.
Dyspeptic, dis-pep'tik, n. one afflicted with indiges-R Each, ech, adj. every one. Each, &ch, adj. every one.

Eagre, &cgr, adj. earnest.

Eagle, &cgl, n. a bird of prey.

Eaglet, &cglet, n. a young eagle

Eagre, &cger, n. a rising river tide.

Ear, &c, n. the organ of hearing, spike of corn.

Eardrop, n. &cdrop, carring.

Earl, erl, n. an English noble next below a marquis.

Earn, ern, v. to gain by labour.

Earnest, ernest, adj. determined; eager; n. a

Earninga, ern'ings n. wages earned.

Earshot, &crishot, n. within hearing range.

Earthen, etth, n. our planet; voil

Earthen, etth'en, adj. composed of earth. Barthen, erth'en, adi, composed of earth. Barthen, eth'en, adj. composed of earth.
Barthenware, erh'en-war, n crockery.
Barthling, eth'ling, n. a dweller on earth.
Barthly, eth'li, adj. worldly.
Barwig, êt'wig, n. an insect, a whisperer.
Base, ez, n. repose; v. to relieve.
Basel, êzel, n. framework for supporting pictures while being painted.
Basement expect u relief: support Easement, & ment, n. relief; support.

East, & st. n. one of the four cardinal points.

Easter, & ster, n. the festival of the Resurrection.

Easterling, & sterling, n. an Hastern native.

Easterly, & sterling, n. an Hastern native.

Eaves, & v. n. the odges of a roof.

Eaves, & v. n. the odges of a roof.

Eaves, & the receding of the tide; v. to recede.

Ebb. el. n. the receding of the tide; v. to recede.

Ebb. el. n. the receding of the tide; v. to recede.

Ebb. el. n. the receding of the tide; v. to recede.

Ebb. el. n. the receding of the tide; v. to recede.

Ebb. el. n. n. n. land, dark wood.

Ebon, el'on, n. n. land, dark wood.

Ebonise, el'on, n. an er, ell of tide of tid Easement, ez ment, n. relief; support.

Eclaircissement, ek-lâr-sis/mong, n. the act of Eclat, â-klâ', n. with striking effect. [explainin Eclecticism, ek-lek'ti-sism, n. the practice of selecting the best. (body by another. Eclipse, e-klips', n. an obscuration of one heavenly Ecliptic, ek-lip'tik, n. the sun's path.

Eclogue, ek'log, s. a short pastoral poem. Economical, ek-o-nom'ık-al, ady. frugal, careful. Economics, ek-o-nom'iks, n. the science of economy. Economy, ek-on-nom'in a careful management. Ecstatic, ek-stat'ik, ad/ rapturous. Ecumenical, ek-i-men'ik-al, ad/, pertaining to the Christian Church.

Christan Church.

Christan Church.

Edacous, edi'shus, adi', fond of cating.

Edda, ed'a, n. the books of Scandinavian mythology.

Edder, ed'e, n. wood for stake binding.

Eddy, ed'i, n. a contrary current

Edematose, e-dem'a-loto, adi', dropsical.

Edentate, e-den'tat, adi', without front teeth.

Edge, e. n. extreme border; v. to sharpen.

Edge-tool, ej'tool, n. a sharp-edged tool.

Edging, ej'ing, n. bordering.

Edible, ed'ibl, adi fit for eating.

Edible, ed'ibl, adi fit for eating.

Edifice, edi'is, n. a large house or building.

Edifice, edi'is, n. a large house or building.

Ediffy, ed'if-is, n. to instruct.

electricity in motion.

Electrometer, e-lek-trom'e-ter, n. an instrument for greaturing electrocity.

Electroplate, e-lek'tro-plat, v. to cover with silver.

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Edile, e'dil, n. a Roman official having charge of
     public works.
Edit, ed'it, w. the number of copies of a book
public addition, edich'un, w. the number of copies of a book
published at one time.
Education, ed-6-ki shun, s. instruction.
published at one time.

Bducation, ed-ū-kiš-hun, n. instruction.

Bducator, ed-ū-kiš-hun, n. instructior.

Bducator, ed-ū-kiš-tor, n. an instructor.

Bduce, ē-dis', n. to extract.

Bel, gl. n. a snake-like fish.

Berie, ē'rī, ad, wild; werd.

Effact, ef-fas', v. to erase; to wipe out.

Effect, ef-fekt', n. result; v. to accomplish.

Effects, ef-fekt', n. goods

Effectuate, ef-fekt', at, v. to achieve.

Effeminate, ef-fekt', at, v. to achieve.

Effeminate, ef-fekt', at, ad, unmanly

Effendi, ef-fen'di, n. a high Turkish official.

Effervescence, ef-fer-ves-ens, n. a boiling up.

Effect, ad, exhausted.

Efficacious, ef-ki-ā'shis, ad, effectual.

Efficacy, ef-ki-ā's, s. virtue; energy

Efficiancy, ef-ki-ā's, n. power: strength; adequacy.

Efficare, ef-for-ein, n. power: strength; adequacy.

Efficace, ef-for-eins, n. se-viou of blossoming.

Effluence, ef-for-eins, n. an outflow.

Effluence, ef-for-eins, n. an outflow stream.
     Bffluvium, ef-floo'vi-um, n noxious vapour.
  Biffort, effort, w. endeavour.
Biffortery, ef frunt'erl, w. lustre; brightness
Effugence, ef ful'ien, w. lustre; brightness
Effusion, ef-fu'zhun, w. that which is poured forth.
Biff, w. a newt.
[from the be
                                                                                                                                                                                                                                                                                                                                                  [from the hody.
     Egestion, e-jest'shun, * the discharging of excess Egg, eg, * an oval-shaped body laid by birds and some animals from which young are hatched.
  Some animals from which young are natened. Belantine, ec'landin, n sweet-brier Lgrism, e'go-lzm, n, the theory of self-interest. Begotise, e'got-lzm, n, self-alisorption, Egotism, e'got-lzm, n, self-alisorption, Egotism, e'got-lzm, n, self-alisorption, Egotism, e'got-lzm, a, dr, conceibly promuent. Egress, e'gres, n, the act of javsling out
     Egret, e. gres, w. a small white heron.
Egrette, e. gret, w. a small white heron.
Egrette, e. gret, w. feather ornaments.
Egryptology, e. jupto'(v-j.), w. the scence of Egyptian
Elder-down, I'der-down, w. the down of the dier duck.
Ether, 'ther, or c'ther, od' or pow one of two
     Ejaculation, e-jak-u-là'shun, n. a short exclamation.

Eject, e-jekt', v. to throw out.

Ejection, e-jek'shun, n. discharge
       Ejectment, e-jectment n. espulsion, dispossession.
Eke, ëk, v to add to, to extend.
Elaborate, e-laborati, v. to labour on, to finish with
     Elaborace, e-late-fat, 2, to laboar on, to mest wins Elan, å-long, 20, dash. Igreat paus. Eland, é-land, 1 an African antelope Elapse, e-laps', v to glide away, to pass away. Elastic, è-lastik, ad, rebounding. Elate, e-latt, v 1 to example and the arm, v to push one s Elaw, e-labo, e-l
       Elbow-room, el'ho-room, n. room to star in ; freedom.
       Eld, w. ancient times.
     Eld, n. shicent times. Elder, elder, elder, elder, elder, elder, adj older. El Dorado, el-dorà'dō, n. the golden land Elect, el-ekt', n. to choose. Election, el-ekt'shun, n. choose, decision by vote. Electioneering; el-ek-shunt-êr'ung, n. the canvassing for votes for an election.
     for votes for an election Elective, elective, elective, elective, elective, and per elective, el
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Electra-statics, e-lek'tro-stat'iks, n. science of electricity at rest. [metal deposited by electricity. Bactrotype, e-lek'tro-tip, n. the art of engraving on a Blectuary, e-lek'ti-er-i, n. a medicinal powder with sweetening.
swee(ening.

Bleemosynary, el-ē-mos'in-ar-l, ad/, pertaining to Elegance, ef'e-gans, n. grace. [charity.

Blegjac, el-é-ji'ak, el-é-ji'ak, el-é-ji'ak-al, ad/, mourn-

Blegy, el'é-ji, n. a song of mourning.

Element, el-e-ment 'ar-l, ad/, primary. [stance.

Elephant, ef-é-fant, n. our largest quadruped.

Elephantlasis, el-e-fāh-ti'as-is, n. a disease which causes the legs to swell.

Elephantten, el-e-fant'in, ad/, huge.

Elevate, el-e-vāt, v. to raise.
Elephantine, el-o-fant'in, ad/, huge.
Elevate, el'e-vā. v to raise.
Elevator, el'e-vā. vo to raise.
Elf, elf, n. a fairy.
Elidt, e-lis'it, v. to deduce.
Elide, e-lid', v to cut ol'.
Eligible, el'ij-ibl, ad/, dur/ qualified
Eliminate, e-lim'in-ât, v. to remove; to cancel.
Elision, e-lish'un, n. a suppressed vowel or syllable.
Elite, â-lêt', n. the select fortion.
Elixir, e-lix'er, n. a tincture,
Elk, elk, n. a kind of stag
Ell, el, n. a measure: a varid and a quarter.
  Elk, e. k. a kind of stag

Ell, el, s. a measure: a yard and a quarter.

Ellipes, el-lips's, s. an oval.

Ellipsis, el-lip'sis, s. a dignre implying a word or words

Ellipsid, el-lip'sis, s. a surface, each plane section

of which is an ellipsis.

Elliptical, el-lip'fit-al, ad/; oval.

Ellin, ell., a a tree

[masts.
  Eim, eim, n a tree [mass.]
Eimo's fire, ei'mòz-fir, n. electric appearances on Elocution, elo-cku'hun, n he art of good speaking.
Elocution, elo-cku'hun, n he art of good speaking.
Elocution, elo-cku'n, n a fiucial panegyric.
[elocution elong fit...], to extenii
Elopement, e-loi'ment, n. a claudestine runnin
Elopement, e-loi'ment, n. a claudestine runnin
Elopement, e-loi'ment, n. a claudestine runnin
  Eloquence, et'o-kwens, adj. forceful speaking. [as Else, els. adv. otherwise.
Elsewhere, els'fiwår, adv. in some other place.
Elsewhere, els'fiwår, adv. in some other place.
Elucidate, e-lu'd', v. to escaps
Elusive, e-lu'sin, adv., eluding: evasitie.
Elusive, e-lu'sin, adv., eluding: evasitie.
Elusive, e-lu'sin, at, v. to separate by water.
Elysain. e luzh'yain, adv., dediglitful.
Elysain, e-luzh'yaim, v. in the abode of the blessed.
Emacratio, e-mash''si', v. to waste, to make lean.
Emacration, e-mish''si'shun, n. thinness of flesh.
Emanate. emi'sin-at, v. to brosceed from.
   Emanataon, e-maistri-a sun, h. minness of nesh. Emanata, enrian-at. v to proceed from. Emanation, em an à'-linn, m. that which flows out. Emancipate, e-maist-joit, v to set free. Emasculate, e-maist-joit, v to castrate. Embalm, em-bam', v to preserve from decay. Embank, em-bam's, v to bank up.
      Embankment, embangk'ment, n. a bank or mound,
   Smbankment, en-bangk ment, n. a bank or mound, a banked up roadway.

Embargo, em bar'go, n order to stop a vessel.

Embark, en-bark', x. to put or go on board

Embarss, en-bark's, v. to hinder, to perplex

Embarss, en-bark's, n. an ambassador, and his retinue;

an ambassador's residence. [inforder of battle
      Embattle, em-bat'l, v to make battlements; to place
     Embelish, em-bel'lish, v. to adorn.
Embezse, em-bez'l, v. to make fraudulent use of.
     Embitter, em-bit'er, v. to make bitter.
Embiazon, em-blaz'on, v to adom in colours
     Emblazon, emblazon, et adom in coords.
Emblazon, emblazon et art of emblazoning
Embler, embed', et to incorporate.
Embodse, embod'en, v. to encourage.
Embolsen, em'bolzin, v. the filling in of dates in a
                       time record
         Binbolus, em'bo-lus, n. a clot of obstructing fibrin.
      Embonpoint, ang-bong-pwang, ad. stoutness.
Embosom, em-booz'um, v to cherish.
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Emboss, em-loo', v. to work raised patterns.

Embouchure, ang-boo-shoor', n. the mouth of a river.

Embower, em-how'er, v. to place in a bower,

Embrace, em-bras, v. to clasp; to fold lovingly.

Embrasure, em-bra'zhur, s. a slanting opening in a

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Endanger, en-dān'jer, v. to imperil.
Endear, en-dēr', v. to make dear.
Endeavour, en-dev'er, v. to strive; to attempt.
Endemic, en-dem'ik. adi. special to a district or people.
    Embrocate, em'bro-kât, v. to moisten. [wall
Embroider, em-broi'der, v. to adorn with needlews.k
  Embroider, em-broi'der, v. to adorn with needlews'k.
Embroidery, em-broi'der-i, s. ornamental needlework.
Embroil, em-broil', v. to entangle.
Embryo, em'bri-0, n. the first stage of animal or plant development.
Embryology, em-broi'o-ji, n. the science of embryos.
Emendation, em-en-dis'shun, n. correction.
Emerald, em'er-ald, n. a green precious stone.
Emergency, e-mer', e. to come out of.
Emergency, e-mer', e. to come out of.
Emertus, e-mer'-i-tus, ads, flonourably discharged from office; n. one so discharged.
Emersion, e-mer'sl', n. a rising out of. [pollshing.
Emery, e-mer', n. a kind of corundum used for Emetic, e-mer'ik, n. a protion to cause vomiting.
Emeute, e-mer'ik, n. a mob rising.
                                                                                                                                                                                                                          Endogen, en'do jen, s. a plant that expands by
internal growth. [of: to sanction.
                                                                                                                                                                                                                          Endorse, en-dors', v. to sign one's name on the back
Endow, en-dow', v. to furnish with funds or dowry.
Endowment, en-dow'ment, n. that which is endowed.
                                                                                                                                                                                                                          Endurance, en-du'rans, n. the condition of enduring.
Endure, en-du'r, v. to last.
                                                                                                                                                                                                                           Enema, en-ê'ma, n. an injection.
Enemy, en'ê-mî, n. a foe.
                                                                                                                                                                                                                          Energy, en'er-ji, n. force; vigour.
Enervate, en-er'vat, v. to weaken.
                                                                                                                                                                                                                        Energy, en er y, w. to weaken.

Energy, en er ye, w. to weaken.

Enfectble, en-fr'bl, v. to make feeble. [of an estate.

Enfectble, en-fr'bl, v. to make feeble. [of an estate.

Enfectble, en-frield', w. rooms opening upon a common

corridor; w. to rake with shot.

Enforce, en-fors', v. to compel. g.

Enfranchies, en-franchie, v. to set free; to grant civic

Engender, en-jen'der, v. to sow; to breed; to produce.

Engine, en-jin, w. a machine imparting motive power.

Engineer, en-jin-fr', w. to encircle.

Engird, en-grid', v. to encircle.

Engrale, en-gral', v. to dye permanently.

Engrane, en-gral', v. to cut impressions on wood or

steel; to print.

Engrave, en-grav', v. to cut impressions on wood or

Steel; to print.

Engrave, en-grav', v. to cut impressions on wood or

Steel; to print.
    Emeute, em-ût', n. a mob rising.
Emigrant, em'i-grant, n. one who emigrates.
   smigrant, em'i-grant, n. one who emigrates. 
Emigrate, em'i-grait, v. to proceed to another country. 
Eminence, em'i-nens, n. height; distinction. 
Eminent, em'i-nent, ad, distinguished. 
Emissary, em'is-r-i, n. a person sent out; a spy. 
Emission, ë-mish'un, n. the act of sending forth. 
Emit, e-mit', v. to send forth.
     Emmet, em'et, s. the ant.
     Emollient, e-mol'yent, adj. softening.
    Emolument, e-mol'u-ment, s. the profit of office or
                   employment; advantage.
   Emotion, e-mo'shum, n. agitation of feelings.
Empalement, em-pāl'ment (see Impalement.)
Empanel, em-pan'el, v. to enter names on a panel, as
Empark (see Impark).

[of a jury.
                                                                                                                                                                                                                           Engraver, en-grav'er, s. one who engraves.
                                                                                                                                                                                                                        Engraver, en-grav'er, s. one who engraves.
Engraving, en-grav'ng, s print of a picture.
Engross, en-gros', s. to absorb; to write in legal hand.
Engulf, en-gulf, s. to swallow up.
Enhance, en-hans', s. to increase; to heighten.
Enigmatical, en-ig-mai, s. a puzzle.
Enigmatical, en-ig-mai'k-al, ad, obscure.
Enjoin, en-join', s. to torder.
Enjoy, en-join', s. to take pleasure in.
Enkindle, en-kind'l, s. to inflame.
Enkindle, en-kind'l, s. to inflame.
Enlarge, en-lait', s. to ernend.
   Emperor, em'per-or, n. the highest sovereign title.
Emphasis, em'fas-is, n. stress on a word.
    Emphasiee, em'fa-siz, v. to give emphasis tt.
Empire, em'pir, n. dominions of an empire; supreme authority.
    Empiric, em-pir'ik, adj. proved by experience.
Zmpiricism, em-pir'i-sism, *. a system relying on ex-
    ampiricism, em-pir i-sism, #. a system relying on ex-
Employe, em-ploy's, # a person employed. [perience.
Emporium, em-plo'ri-um, #. a mart; a large shop.
Empower, empow'er, v. to sanction.
                                                                                                                                                                                                                          Enlarge, en-làrj', v. to expand.
Enlighten, en-lit'en, v. to illuminate.
                                                                                                                                                                                                                          Enlistment, en-list'ment, n, the act of enlisting.
Enliven, en-liven, v, to make cheerful
  Empower, empow'er, v. to sanction.

Empress, em'pres, w. consort of an emperor.

Empty, emp'ti, adj. vacant; v. to exhaust.

Empyreal, em-pu'eal, adj. the purest heaven; sub-

Emu a'mi, v. a large bird.

Emulate, em'ū-lāt, v. to strive to equal; to imitante.

Emulative, em'ū-lāt, v. adj. tending to emulation.
                                                                                                                                                                                                                         Enmity, en'mit-I, n. hostility; unfriendliness.
Ennoble, en-nô'bl, v. to confer noble rank upon.
                                                                                                                                                                                                                         Ennut, ang-nwe', n. weariness.
Enormity, e-normitt, n. that which is enormous, wicked, or monstrous.
                                                                                                                                                                                                                          Enormous, e-nor mus, adj. excessively large.
   Emulsion, e-mul'shun, n. an oily preparation.
Enable, en-a'bl, v. to render able; to empower.
                                                                                                                                                                                                                          Bnough, e-nul', adj. sufficient; adv. sufficiently. Bnrage, en-rāj, v to make angry.
 Enable, en-4'bl, w. to render able; to empower.

Enact, en-akt', v. to pass a law.

Enactugent, en-akt'ment, s. a law.

Enactugent, en-akt'ment, s. a law.

Enactugent, en-am'el-ing, s. the art of making enamel.

Enammour, en-am'ur, v. to inspire with love.

Encamp, en-kamp', v. to form a camp.

Encampment, en-kamp'ment, s. the place where

bodies of troops or others are camped.

Encaustic, en-kaws'tik, adj. with colours burned in.

Encaustic, en-chan', v. to put in chains.

Enchant, en-chan', v. to put in chains.

Enchant, en-chan', v. to charm.

Enchantment, en-chan', w. to charm.
                                                                                                                                                                                                                          Enrapture, en-rap'tur, v. to cause extreme delight.
Enravish, en-rav'ısh, v. to enchant.
                                                                                                                                                                                                                          Enrich, en-rich', v. to make nch.
Enrich, en-rich', v. to make nch.
Enrole, en-röb', v. to attire.
Ensample, en-sam'pl, n. example.
                                                                                                                                                                                                                        Ensample, en-sam'pl, n. example.

Bnsanguine, en-sang'gwin, v. to stain with blood.

Bnscouce, en-skons', v. to cover; to hide safely.

Bnshield, en-sheid', v. to shield.

Bnshrine, en-shein', v. to enclose; to keep in regard.

Bnshrond, en-showd', v. to cover up.

Bnsiform, en'si-form, adj, sword-shaped.

Bnsign, en'sin, n. the hag of a nation or regiment;

the officer who carries it.

Bnsign, en'silai, n. stored folder.
 Enchantment, en-chantment, n. that which enchants.

Enchase, en-chā', n. to engrave; to inlay.

Encircle, en-serk', n. to enclose; to surround.

Enclitic, en-ki'nik, ad', leaning upon.

Encomiast, en-ko'm'ast, n. one who eulogises.
                                                                                                                                                                                                                        Ensilage, en sil-āj, n. stored fodder.
Ensilave, en-sil-āj, n. stored fodder.
Ensnare, en-sil-ā, n. to contangle.
Ensnue, en-sil-, n. to follow.
Ensue, en-sil-, n. to follow.
  Encomium, en-ko'ml-um, n. high praise.
  Encompass, en-kom'pas, v. to surround.
Encore, ang-kor', adv. repeat.
                                                                                                                                                                                                                       Entablature, en-tab'la-tūr, n. the part of architecture that surmounts a column. [entailed estate. Entail, en-tăl', v. to settle in special descent; n. an Entailment, en-tăl' entailment, n. act of entailing. Entangie, en-tangie, v. to contort into a tangie; po entelechy, en-tel'giel, n. actual existence. [ensare. Enter, en 'ter, v. to grocced inwa d; to join in. Enteric, en-ter'ik, ad/. relating to the intestines. Enterprise, en'ter-pitz, n. an undertaking or advendinterpusing, en'ter-pitz-ing, ad/. adventugous. [ture. Entertain, en-ter-tăn', v. to amuse; to show has Entertain, en-ter-tăn', v. to amuse; to show has Entertain, en-ter-tăn', v. to amuse; to show has Entertain.
 Encounter, en-kown'ter, v. tu meet; to oppose.
Encourage, en-kown't, v. to intruct.
Encroach, en-krôch', v. to intruct.
Encumber, en-kum'ber, v. to burden; to impede.
Encumber, en-kum'ber, v. to burden; to impede.
Encumbrance, en-kum'brans, s. that which encum-
Encyclical, en-si'kli-kal, s. a papal letter on public Bacyclopædia, en-si-klô-pë'di-a, s. a comprehensive work dealing with some or every branch of 'knowediacyst, en-sist', s. to enclose in a cyst.
           dāy ; āt ; ārm ; ēve ; čik ; thêre ; ke ; pin ; machine ; būk ; pŏt ; stôrm ; mūte ; tǔb ; būrn.
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Bpode, exiled, s. a kind of lyric poem.

Eponym, dyonim, s. name derived from a individual.

Eponym, dyonim, s. name derived from a individual.

Equal, exilent a fig. even; like; of the same quality or

Equal, exilent, ex. even; like; of the same quality or

Equality, ex. even; like; of the same quality or

Equality, ex. even; like; of the same quality or

Equality, ex. exilent, s. the line encircling the middle

of the globe.

Equality, ex. exilent, ex. exilent a figure of the

Equerry, ex. even; ex. ex. exilent a figure of the

Equerry, ex. even; s. an official of the royal household.

Equestrian, ex. execution, adj. relating to horse; s.

Equipmenta, ex. execution, adj. ex. exilent and execution.
 Enthrone, en-&rön', v. to place on a thune.
Enthusiasm, en-&t'\u00e4\u00fc'zi-asm, v. extreme ardour.
 Enthusiast, en-#su'zi-ast, n. one who feels enthusiasm.
Entice, enels', v. to allure.
Entite, entity, at, to allure.

Entitle, entity, at/, complete.

Entitle, entity, at/, complete.

Entitle, entity, at, to to give claim or title to,

Entity, entity, at, to to bury.

Entomologist, ento-mol'o-jist, s. one who studies

Entozoa, ento-zi/s, animal life within other animals.

Entrails, entrails, s. the bowels.

Entrain, entrain, v. to take train, as of bodies of
                                                                                                                                                                                                                                                                                                                             Equiangular, ē-kwi-ang @-lar, adj. with equal angles. 
Equilateral, ē-kwi-lat'er-al, adj. with all sides equal. 
Equilibrate, ē-kwi-lib'ri-un, n. equal balancing.
   Entrance, en'trans, n. the place where one enters;
 Entrap, en trap', v. to trap. [the act of entering.
Entrast, en-tret', v. to beseech.
Entres, ang-tra', w. entry; a made dish.
Entrepot, ang'tr-pō, w. a storehouse; a bonded
                                                                                                                                                                                                                                                                                                                             Equinorium, e-win-ir-nin, n. equal panaring.

Equinoctial, e-kwi-nok'shal, ad/, relating to the

Equinoctial, e-kwi-nok'shal, ad/, relating to the

Equinoc, e'kwi-nok, n. the time of the sun's crossing

Equip, e-kwip', n. to fit out; to supply. [the equator.

Equipage, ek'wi-pāj, n. a carriage and attendants;

anytling equipped.

Equipment, e-kwip'ment, n. outfit; the act of equipping.

Equipment, e-kwip'ment, n. outfit; the act of equipping.
                      warehouse.
warehouse.

Marchouse.

Marcho
                                                                                                                                                                                                                                                                                                                              Equippinear, e-kwip hient, s. outni; meant of equipping. Equippine, é'kwi-poien, s. equality of weight; balance. Equipollence, è-kwi-pol'ens, s. equality of power. Equipollent, ê-kwi-pol'ent, ads. possessed of equal-
Enumerate, e-nü'mer-at, v. to compute the number of, Enunciate, e-nun'si-at, v. to formally declare; to pro-
Envelope, en-vel'up, v. to invest. [nounce clearly. 
Envelope, en'vel-op, w. a covering:
Envelopment, en-vel'up-ment, w. that which covers. 
Envenom, en-ven'om, v. to porson; to enbutter. 
Envisuble, en'vi-abl, add, fit to be envied. 
Envious, en'vi-us, add, feeling envy. 
Environs, en-viron, v. to surround. 
Environs, en-virons, w. suburbs. 
Envoy, en'voi, x. a dinionatic messencer.
                                                                                                                                                                                                                                                                                                                                power.

Equitable, ek'wit-abl, adj. showing the quality of Equity, ek'wi-ti, n. right; justice; fairness. [equity. Equivalent, e-kwiw'alent, adj. equal. Equivocal, e-kwiw'a-kal, adj. doubtful.
                                                                                                                                                                                                                                                                                                                                Equivocate, e-kwiv'o-kāt, v. to prevaricate.
Equivocation, e-kwiv-o-kā'shun, n. ambiguity.
   Envoy, en'voi, n. a diplomatic messenger.
                                                                                                                                                                                                                                                                                                                                Era, e'ra, n a period of years counted from a dominat-
 Bavy, en'vi, n. lealousy; v. to grudge.

Bocene, ĕ'ō-sēn, ad/ first of the Tertiary formation.

Bozolc, ĕ-ō-zō'ik, ad/. relating to certain fossi remains found in Canada.

Jof the year
                                                                                                                                                                                                                                                                                                                                                   ting date.
                                                                                                                                                                                                                                                                                                                                Eradicable, e-rad'i-kabl, adj. capable of being eradicated.
found in Canada. In the year Epact, e'pakt, n. the age of the moon at the opening Epaulement, e-pawl'ment, n. sidework of a battery. Epaulet, ep'o-let, n. shoulder-badge. [table. Epergne, e-pern', n. centre dish or ornament for the Ephemera, e-fen'er-al, n. insects that live but a day. Ephemeral, ef-cm'er-al, ady. short-lived; existing for a day only.
                                                                                                                                                                                                                                                                                                                                Bradicate, e-rad'i-kāt, v. to destroy; to efface; to re-
Eradication, e-rad-ik-ā'shun, n. destruction; ex-
Erase, è-rās', v. to expunge. [pungement.
                                                                                                                                                                                                                                                                                                                                Erastianism, e-ras'ti-an-ism, w. State control of the
                                                                                                                                                                                                                                                                                                                                                     Church.
                                                                                                                                                                                                                                                                                                                                Brasure, e-ra'sur, n. the act of erasing; the part where erasing has been done.
                                                                                                                                                                                                                                                                                                                                Erato, er'a-to, n. the muse of lyric poetry.
Erect, e-rekt', adj. upright: v. to build.
                      a day only.
 Ephemeria, ef-em'er-is, n. a daily journal.
Ephod, ef od, n. a Jewish surplice.
                                                                                                                                                                                                                                                                                                                              Erect, e-rekt', ad., upright; v. to build.

Eremits, e're-mit, n. a hermit

Ergot, e'r.ot, n. a fungoid disease in plants.

Brmine, e'runn, n. a white fur; the animal from
which it stotained.

Erode, e-ro'd, v. to eat away.

Erosion, e-ro'shin, n. the process of eating away.

Erosion, e-ro'shin, n. the process of eating away.

Err, er, v. to blunder.
   Epic, ep'ik, s. an heroic poem
Epice, ep ik. M. an heroic poem

Bpicene, ep'i-kin, ad', bertaining to both sexes.

Epicure, ep'i-kin, m. a lover of good things.

Epicurean, ep-i-kin're-an, adr, given to luxury.

Epicycle, cp'i-si-ki, m. a circle whose centre is on a

greater circle's circumference.

[pecple.

Epidemic, ep-i-tien'ik, adr, affecting large bodies of

Epidermis, ep-i-der'mis, m. the outer covering of the

skim.
                                                                                                                                                                                                                                                                                                                                Errand, er amessage.

Errand, er amessage.

Errant, er'ant, n. a wandering like a knight-er-

Erranty, er'ant, n. a wandering like a knight-er-

Erranty, er'ant, n. a wandering like a knight-er-

Erranty, and have a wandering writing or punting.
                                                                                                                                                                                                                                                         or belly.
   Epigastric, ep-I-gas'trik, ad/ relating to the stomach
Epiglottis, ep-I-glot'is, n. cartilage at the root of the
                      tongue.
                                                                                                                                                                                                                                                                                                                                 Brratum, er-a'tum, n. an error in writing or printing...
 tongue.

Epigram, ep/Tgram, n. a smart, pointed saying.

Epigraph, ep/tgraf, n. an inscription.

Epilepsy, ep/t-lep-il, n, falling sickness.

Epileptic, ep-il-ep/tik, n one subjected to epilepsy.

Epilogue, ep/il-og, n. a supplemental part at the end of a play.
                                                                                                                                                                                                                                                                                                                                 Erroneous, er o'ne-us, any, wrong; mistaken.
                                                                                                                                                                                                                                                                                                                                   Error, er or, n. a mistake
                                                                                                                                                                                                                                                                                                                              Erse, ers, n. a branch of the Celtic language.

Erst, erst, adv. formerly

Frate, erst, adv. formerly

Fratile, erwell, adv. learned.

Fruditon, erwell, adv. learned.

Fruditon, erwell, n. n. learning.

Eruginous, erwell, n. a bursting forth.

Erystipelas, er-leny'elas, n. an inflammation of the

Escalade, es-ka-lad', n. the scaling of forthied walls.

by means of ladders.

Escalop, es-ka'op, n. a shell-fish.

Escape, es-ka'op, n. a shell-fish.

Escapement, es-ka'p ment, n. the act of escaping;

part of the works of a clock or watch.

Escharotic, es-ka-rot'ik, adv. pertaining to artificial slonghs produced by caustics.
                                                                                                                                                                                                                                                                                                                                 Erse, ers, n. a branch of the Celtic language.
 Epiphany, e-pifan-l, n. a church festival falling on Epiphyte, ep/if-it, n. a parasite. [January 6. Episcopacy, e-pis/ko-pi-si, n Church government. Episcopal, e-pis/ko-pal, adj. pertaining to bishops.
    Episcopai, e-pis ko-pat, m. a bishopric.

Episcopae, e-pi'-sod, m. a diverting incident; a short tale
apart from a main story
    Epistle, é-pist'i, n. a letter.
 Epistie, é-pist'i, m. a letter.

Epistojary, e-pus'-to-la-ri, ad.' pertaining to letters.

Epistojary, e-pus'-to-la-ri, ad.' pertaining to letters.

Epistojary, e-pus'-to-la-ri, e-pus'-to-la-ri
                                                                                                                                                                                                                                                                                                                                Escharotic, es.ka-rot'ik, ad, pertaming to artinciar slonghs produced by caustics.

Rschatology, es.ka-tol'o-ji, w. the theory of finality.

Escheat, es-cheiv', n. property forfuited to the State.

Bschew, es-chew', w. to shun.

[attendants.

Escort, es.kort', w. to accompany for guidance.
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Escritoire, es-kri-twor', s. a writing-desk.
Esculapian, es-kri-twor', s. a writing-desk.
Esculapian, es-kri-twor', s. a writing-desk.
Esculapian, es-kri-twor', s. de', relating to he ling.
Escurial, es-kri-tal, s. the royal pelace at Madrid.
Escurial, es-kri-tal, s. the royal pelace at Madrid.
Escurial, es-kri-tal, s. the royal pelace at Madrid.
Escurial, es-kri-tal, s. the gullet. [arms.
Esoteric, es-o-ter'ik, s. dj. mysterious; secret.
Espalier, es-pal'yer, s. lattice-work for fruit-trees.
Espalier, es-pal'yer, s. a strong grass common in Spain.
Especial, es-pel-raid, s. s. pyning.
Espicnade, es-pla-nād', s. a prominent level prome-
Espouse, es-powz', v. to affiaice; to marry.
Espit, es-pr', s. liveliness.
Espy, es-pr', s. liveliness.
Espy, es-pr', s. v. to discem.

Esquire, es-kwir', s. a squire; a general title of general espousal, s. an experiment; a short written composition.
Essence, es'ens, s. the nature of a thing: an extract
          Basence, es'ens, s. the nature of a thing; an extract.
Basential, es-en'shal, adv. necessary.
Batablish, es-tab'lish, v. to set up; to fix.
Batablishment, es-tab'lish-ment, s. settlement; place
          of business; house.

Batate, es-tair, s. property; possession; rank.

Batate, es-teir, s., to value; s. respect.

Esthetic, es-thet'ik (see Æsthetic).
  Bathetic, os-thet'ls (see Assherts). [Russia. Bathodlan, esthôn-fian, ady, relating to Fisthoma in Bathmate, est'insåt, v. to value; n. a valuation. Bathy, es-toy', v. to bur. Bathy, es-toy', v. to bur. Bathyer, es-tra'i, v. n. necessaries allowed to a tenant. Batrange, es-tra'i, v. a stray heast. Bathay, es'thô-rl, n. the lower part of a river. Battley, es'thô-rl, n. the lower part of a river. Battley, es'thôn-rl, n. d., penurious. Batch, ech, v. to design on metal with acid; Batrand, e-ger'nl-tl, n. perpe'nity.
          Eternity, e-ter ni-ti, n. perpejuty.

Eternity, e-ter ni-ti, n. perpejuty.

Etesian, è-té'zhan, adj. periodical.

Ether, é'ther, n. the upper ar.

Ethereal, e-thé'rè-al, adj. heavenly.

Ethical, eth'ik-al, adj. pertanning to duty.
       Ethics, eth'iks, n. science of moral duty.

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Ethics, eth'iks, n. science of moral duty.
       Ethnology, eth-nologi, n. the science of mankind.
Ethology, eth-nologi, n. the science of character.
Etholate, eth-o-lat, v. to grow pale from lack of light.
Etiquette, et'i-ket, n. the laws of courtesy; good
Etiquette, et'i-ket, n. the laws of courtesy; good manners.

Etymology, et-i-mol'o-ji, n. the science of words.

Etymon, et'i-mon, n a word root.

Eucharist, û'ka-rist, n. the sacrament.

Eudamantent, û-di-mon-tem, n. a theory of ethics constituting happiness the test of morality.

Eudamanter, ù-di-mo-tert, n. an instrument for measuring oxygen. [for mythology a real origin. Euhamenterism, û-la mer-izim, n. a system that claims Eulogise, û'do-jiz, v. to praise.

Eulogium, û-lo'ji-um, n. something spoken or written Eulogy, û'lo-ji, n. encomuni.

Eulogium, û-lo'ji-um, n. something spoken or written Eulogy, û'nuk, n. a castrated man.

Eupatrid, û-pat'rid, n. an a healthy digestion.

Euphaiism, û'fem-izim, n. a word or form of words presenting in a pleasing sound. [unpleasant. Euphaiism, û'feizim, n. an instated expression.

Euroclydon, û-rok'li-don, n. the wind which wrecked St. Paul's ship.

Eurythiny, û'rii-lm, n. a minstated expression.

Euroclydon, û-rok'li-don, n. the wind which wrecked St. Paul's ship.

Eurythiny, û'rii-lm, n. a. symmetry.
                                            manners.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the Church
  St. Paul's ship.

Burythmy, u'rid-mi, n. symmetry.

Bustachian, ü-stä'ki-an, adj. relating to the tube connecting the middle ear and the pliarynx.

Butterpe, u-ter'pe, n. the muse of music.

Buthanasia, ü-han-â'z-la, n. easy death.

Byacuate, e-vak'ū-ā, v. to go out; to throw out; to

Byacade, e-vak'ū-ā, v. to go out; to throw out; to

Byacade, e-vak'ū-ā, v. to avoid; to escape.

Evanecent, e-vah-ū-ā; e-in, adj. feeding.

Evangelical, ev-an-je'ik-al, adj. relating to the gospel.
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Evangelise, e-van'jel-iz, v. to preach the gospel.
Evangelist, e-van'jel-ist, n. a preacher of the gospel.
Evangelist, e-van'jel-ist, n. a preacher of the gospel.
Evangelist, e-van'jel-ist, v. to escape in vapour; to
Evasion, e-vi'-ivin, n. the act of evading. (vanish.
Eventing, e-vin'ivin, n. the close of day.
Eventit, e-vent'in, a. d., full of events.
Eventual, e-vent'in-al, ad/, tocurring as a consequence;
Evict, e-vit', v. to expel; to dispossess. [final.
Evidence, ev'-idens, n. testimony.
Evidenter, e-v'-idens, ad/, obvious.
Evidential, ev-i-den'shal, ad/, tending to prove.
Evil, e'vil, n. wickedness, calamity; ad/, wicked.
 Evilential, evidential, adv. tending to prove.
Byince, e-vins', v. to show; to prove.
Eviscerate, e-vis'er åt, v. to disembowl.
Evoke, e-vök', v. to draw forth.
 Evolucion, evo-li'shun, m. gradual development.

Evolutionist, evo-li'shun, m. gradual development.

Evolutionist, evo-li'shun, st, m. one who believes in
the theory of evolution.

Evolve, e-volv', n. to disclose; to develop.

Evalled, e-vul'shun, m. a pluc'sing forth.
Evaluation, e-vursum, n. a puncing form.

Ewe, û, n. a female sheep.

Ewet, û'er, n. a large water-jug.

Ewigkeit, â'vih-kit, n. etermity. (German). [irritation.

Exacerbation, egz-as-er-bā-shun, n. the increase of

Exact, egz-ak', v. to compel; add, precise, accurate.

Exaction, egz-ak'shun, n. a harsh demand.
Exaction, egra-ks'hun, n. a harsh demand.

Exaggerate, egra-ks'hun, n. a harsh demand.

Exaggerate, egra-ai'er-ât, n. to magnify unduly.

Exalt, egra-aivl', n. to clevate

Examine, egra-aivl'n, n. to moulire into; to investigate

Examine, egra-aivl'n, n. a specumen or illustration.

Exasperate, egra-aivlen-ât, n. to irritate; 'n anger.

Excalibur, eks-kair-bi-fon, n. exchange of innos.

Excandos, eks-kair-bi-fon, n. exchange of innos.

Excaelence, eks-el-ks, n. great merit

Excellency, eks-el-si-fon, ad) ingher still

Except, eks-el-si-fon, ad) ingher still

Except, eks-ept', n. to take out; in object to. [inn.

Exceptional, eks-ept'shun-abl, ad, open to objec-

Excerpt, eks-ept', n. an extract.
    Excerpt, ek-serpt', w. an extract

Excess, ek-ses', w. intemperance, going beyond what
                        is right or wise.
 Excessive, ck-ses'iv, ad/, immoderate. [another, Exchange, eks-chanf', v. to give one thing for Exchequer, eks-chek'er, n. one of the superior courts;
Exchequer, eks-click'er, n. one of the superior courts; the revenue.

Excisable, ek-siz'abl, ad/ l. thle to excise duty.

Excise, ek'siz, n. tax on commodities or trades.

Exciseman, ek-siz'man, n a collector of excise.

Excision, ek'sizh'un, n a cutting away

Excitable, ek'siz'abl, ad/ labb' to excitement.

Excite, ek-siz', v. to minane

Exclaim, eks-klam', v. to call out.

Exclamation, eks-klam', ishun, n, a loud outcry; a

note of punctuation (1)

Exclamatorv, eks-klam', ishun, n, a', expressing
 Exclamatory, eks-klan/2-to-ri, adj. expressing 
Exclude, eks-klood', v. to shut out. 
Exclusive, eks-kloo'w, adj. apart : sole. 
Excogitate, eks-ko'lit-fit. v. to think slowly. 
Excogitate, eks-ko'lit-fit. v. to think slowly.
   Exceriate, eks-ko'rī-āt, v. to strip the skin from
 Excrescence, eks-kres'ens, n an unnatural outgrowth.

Excrete, eks-kres', v, to eject; to throw off.

Excretion, eks-kres'nn, n matter excreted.

Excrutating, eks-kroo'shi-a-tung, adj, toturing.

Exculpate, eks-krjoshi, v, to show guilless; to
                   absolve.
Excursion, eks-kur'shun, n. a trip; an expedition.

Excursion, eks-kur'shun, n. a dissertation.

Excurse, eks-kuz', n. to forgive: to overlook; to, free

Execurse, eks's-kuz', n. to dersbunce; to curse.

Execurse, eks's-kuz', n. to dersbunce; to curse.

Execurse, eks's-kuz', n. to perform; to finish; to put to

death by law.
   Executioner, eks-e-kû'shun-er, n. one appointed to
                     carry out capital punishment.
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Explanation, eks-plan-d'shun, n. act of making plana. Explanation; eks-plan's to-ri, ed/, with explanation. Explicative, eks-pleiriv, ad/, a redundant word; an oath. Explicable, eks-plik't, ad/, capable of being exspicit, eks-plik't, ad/, clear; plain. [planed. Explode, eks-plod', v. to burst forth; to reject. Exploit, eks-ploid', v. to work up for selfish ends; n. a notable achievement.

Rynloration, eks-ploid', when n. act of explorings.
Executive, egz-ek'ū-tiv, s. persons who administer governmental authority. (the directions of a will. Executor, egz-ek'ū-ter, s. one appointed to carry out Exegresis, eks-e-je'sis, s. the science of interpretation. Exegretical, cks-e-jet'i-tal, adj. explanatory. Exemplar, egz-em'plar, s. something worthy of interpretation.
imitation. [example. Exemplay, egz-em'play, ady, forming a good Exemplay, egz-em'play, v. to show by example. Exempt, egz-empt, v. to release from. Exequies, eky'-eky's, v. funeral rites. Exercise, eky'-eky's, v. to practice; s. task; use; Exert, egz-ert', v. to strive; to labour. Exertion, egz-er'shun, v. endeavour. Exfoliate, eks'd'l'āt, v. to shed scales. Exhalation, egz-ha-la'shun, v. apour; steam; what Exhaust, egs-haws', v. to weary; to expend; to drain off.
                        imitation.
                                                                                                                                                                                                                                                           fexample.
                                                                                                                                                                                                                                                                                                                                         Exploration, els-piò-ri'shun, s. act of exploring.
Explore, eks-piò-ri v. to search for.
Explosion, eks-piò-riun, s. act of exploding.
Explosion, eks-piò-riv, s. a substance that will cause
                                                                                                                                                                                                                                                                                                                                    Explosion, eks-plo'zhun, n. act of explorling.

Explosive, eks-plo'shu, n. a substance that will cause
an explosion.

Export, eks-po'nent, n. one who represents.

Export, eks-po'nent, n. one who represents.

Export, eks-po'rt, v. to send abroad.

Export, eks-po'rt, v. to send abroad.

Exportable, eks-port'abl, ad, that can be exported.

Exportable, eks-port'a'shun, n. act of exporting.

Exposse, eks-po'r, v. to lay bare; to place in danger.

Exposse, eks-po'sh'un, n. an explanation; an exhibition; the act of exposing.

Expositor, eks-po-sh'un, n. an explanatior; exposition, eks-po-sh'un, n. an explanatior; exposition, eks-po-sh'un, n. act of laying bare.

Exposure, eks-po'zir, n. the act of laying bare.

Exposure, eks-po'zir, n. the act of laying bare.

Exposure, eks-po'zir, n. the act of laying bare.

Exposition, eks-poe'sh'un, n. act of expression; feature: look.

Expression, eks-presh'un, n. act of expression; feature: look.

Expressively, eks-presh'un, n. act of expression.

Expressively, eks-presh'un, n. act of expression.

Expressively, eks-presh'un, n. the act of expelling.

Expulsion, eks-pu'shun, n. the act of expelling.

Expunge, eks-punly, v. to wipe out.
   Exhaustion, cgz-hawst'yun, n. great fatigue.
Exhibit, egz-hib'it, v. to show; n. the thing shown.
Exhibition, egz-hi-hish'un, n. a display; a public show.
 Exhibition, egz-hl-bish'un, n. a display; a public show. 
Exhibitate, egs-hit'e-sit, v. to animate. 
Exhort, egz-hort', v. to preach; to urge. 
Exhortation, egz-hort-d'shun, v. a religious harangue. 
Exhumation, egz-ho-na'shun, v. the act of disinterring. 
Exhume, eks-hum', v. to disinter. 
Exigency, eks'ij-ens', n. an emergency. 
Exigent, eks'ij-ens', ad, suprat.
   Exiguous, eks.ig'u-us, ad/. slender; small,
Exile, egz'il, n. the condition of being expelled from
                        home or country: v. to bauish.
    Exility, ekz-il'ft-f, n. slenderness
   Exist, egz-ist', v. to have life.
   Expunge, eks-punl, v. to wipe out.
Expunged, eks-punl, v. to wipe out.
Expunged, eks-pun-git, v. to cleanse; to cut out.
Expunsite, eks-kwiz-it, adf. delicate; superior.
Exsanguious, eks-sung gwi-us, adf. bloodless.
Exsand, eks-sud, v. to cut off.
   Exorbitant, egz-or bi-tant, adj. excessive. Exorcise, eks-or-siz, v. to drive away evil spirits.
                                                                                                                                                                                                                                                                                                                                          Extant, eks'tant, adt, in being. [preparation. Extemporaneous, eks-tem-pō-rā'ne-us, adf. without Extempore, eks-tem'po-rē, adv. without study.
   Expressm, eks'er-sism, n the act of expelling evil
spirits.

Exordium, exp.o. di-um, n. an introductory portion.

Exoteric, eks o-ter'ik, ad/ external.

Exoteric, eks o-ter'ik, ad/ external.

Expand, eks-pand', e. to extend.

Expanse, eks-pans', n. a unde open space

Expa sive eks-pans', n. a unde open space

Expa sive eks-pans', n. a unde open space

Expa sive eks-pans', n. a unde open space

Expantace, eks-pans', n. a unde open space

Expantace, eks-pans', n. a unde open space

Expantace, eks-pans', n. a unde open space

Expectant, eks-pans', n. a unde open space

Expectant open space

Expect
                        STRUCKS.
                                                                                                                                                                                                                                                                                                                                         Extempore, eks-tem po-re, aw. without study. Extemportze, eks-tem po-riz, v. to speak off-hand. Extend, eks-tem'(v. v. to lengthen. Extension, eks-ten'shun, n. a stretching out. Extensive, eks-ten'sw, ad/, large; broad; compre-Extent, eks-ten'sw, compass; space. [hensive. Extenuate, eks-ten'id. v. to pallate. Extension, eks-ten'lor, ad/, outer. Extension as ks-ten'in. St. v. to destroy.
                                                                                                                                                                                                                                                                                                                                         Exterminate, eks-ter'min-at, v. to destroy.
                                                                                                                                                                                                                                                                                                                                       External sek-ter/min-st, v. to destroy.

External, eks-ter/alz, n. things outside or apart

Extinct, eks-ting/xl, adj. extinguished. [from.

Extincteur, eks-tingkt'er, n. an instrument for ex-
tinguishing fire.

Extinguish, eks-tingkt'shun, n. an extinguishing.

Extinguish, eks-ting'gwish, v. to quench. [tunguishes

Extinguish, eks-ting'gwish-er, n. that which ex-

Extitipate, eks-ter/pat, v. to root out or destroy.

Extol. eks-ting', v. to praise.
   Expectorant,
                                                                                                          ekt'o rant, adv. causing expectora-
 Expectorate, spectro-rdi, v. to spit. [tion spit.]
Expecterate, spectro-rdi, v. to spit. [tion spit.]
Expediency, eks-pc-di-en-si, adv fitness; convenience.
Expedient, eks-pc-di-t, v. t. juicken. to help forward
Expedition, eks-pc-dishun, v. speed, an undertaking
   for exploration, war, discovery, etc.
Expeditious, eks-ps-dishins, adj. quick; prompt.
                                                                                                                                                                                                                                                                                                                                            Extol, eks tol', v. to praise.
                                                                                                                                                                                                                                                                                                                                         Extort, eks-tort', v. to force from 
Extortion, eks-torshun, v. oppression. 
Extortionate, eks-tor'shun-it, adv. oppressive. 
Extortioner, eks-tor'shun-et, v. one who extorts. 
Extra, eks/tra, adv. beyond what is usual.
 Expeditious, eks-ps-dish'rs, adj. quick; prompt.
Expend, eks-pend', v. to drive out.
Expend, eks-pend', v. to spend.
Expendeure, eks-pen', v. cost, outlay.
Expense, eks-pen'sw, adj costly.
Experience, eks-pen'ens, n. knowledge gamed; v to
undergo; to suiter
                                                                                                                                                                                                                                                                                                                                         Extrac, eks'(tra, ads') beyond what is usual.

Extract, eks-trakt', n. to draw out.

Extract, eks-trakt', n. a thing extracted; a copy of a portion of a book.

Extraction, eks-trakt'iv, ads, that may be extracted.

Extractive, eks-trakt'iv, ads, that may be extracted.

Extractive, eks-trakt'iv, ads, that may be extracted.

Extraction, eks-traktis'iv, n. the yielding up of fugitives from justice by one country to another.

Extractical, eks-tra-judish'al, ads, out of the customary legal course.

Imaterial universe.
   Experiment, eks.per'i-ment, n. trial; essay.

Experimental, eks.per-i-ment'al, ad/, tentative.

Experimentalist, eks.per-i-ment'al-ist, n. one who
                        experiments.
                                                                                                                                                                                                                                             la specialist.
experiments.

Expert, eds. having special knowledge; n.
Expiable, eks'pl-abl, ads. that may be atoned for.
Expiable, eks'pl-abl, ads. that may be atoned for.
Expiatory, eks'pl-a-to-ri, ads. having power to atone.
Expiration, eks-plus'shun, n. ernunation; end;
breathing outwardly.
Expire, eks-pls', v. to die; to end.
Expiry, eks-pls', n. termination.
Expiry, eks-pls' kia, v. to discover by close scrutiny.
Explain, eks-plain', v. to make clear.
                                                                                                                                                                                                                                                                                                                                         tomary legal course. Bartana da as a control universe. Extramundane, eks-tra-mun'dan, ad/. beyond the Extramundane, eks-tra-mun'dan, ad/. outside the walls. Extraneous, eks-tra'ne-us, ad/. external. Extraneous, eks-tra'ne-us, ad/. external. Extraneous, eks-tra'ne-us, ad/. unusual;
                                                                                                                                                                                                                                                                                                                                          Extraordinary,
wonderful.
                                                                                                                                                                                                                                                                                                                                          Extravagance, eks-trav'a-gans, n. excessive expendi-
Extravagant, eks-trav'a-gant, adj. iavish, unreason-
able.
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day; ăt; ârm; ēve; člk; thêre; ice; pin; machine; böld; pŏt; stôrm; mūte; tub; bûrn.

Extravaganza, eks-trav-a-gan'za, s. a burle: que. Extravasate, eks-trav'as-at, v. to let out firom the original vessel. original vessel.

Rxtreme, cks-tröm', adj. remote, excessive.

Rxtremity, cks-trem'it-l, n. the utmost limit.

Rxtricable, cks'rit-kabl, adj. that may be extricated.

Rxtricate, eks-tri-kāt, v. to get out of; to set free.

Extrinsic, eks-tri-kāt, v. to force out.

Extrusion, eks-tro-dvi, v. to force out.

Extrusion, eks-tro-dvi, n. n. the act of expelling.

Exuberance, eks-u'ber-ans, n. an overflowing.

Exuberant, eks-u'ber-ans, n. the act of discharging

through the pores.

[Exuderant, eks-u'ber-ans, n. the set of discharging

through the pores.

[Exuderant-ex-u'ser-tit-v. to make ancry. Exulcerate, egz-ul'ser-āt, v. to make angry. Exultant, egz-ult'ant, adj. triumphant. Exuitant, egz-sit'ant, ads. trumphant.

Bye, I, n. organ of sight.

Byelet, l'let, n. a lacc-hole.

Bye-servant, Yser-vant, n. one who only does his duty
when under his master's eye.

Byesore, l'sor, n. something offensive to the eye.

Bye-tooth, l'too/h, n. one of the two canne teeth.

Byre, är, n. a circuit, as of judges.

Eyry, ä'rl, n. nest of a bird of prey.

Fabian, & Di-an, adj. delaying; relating to the Fabian Society.
Fable, & Di, a fictitious narrative of moral teaching; Fabric, fabrik, n. textile cloth, a building. [invent. Fabricate, fabril-kät, v. to put together; to make; to Pabrication, fabril-kät, shin, n. the thing fabricated, Pabulist, & Di-dist, n. a writer of fabies.
Fabulist, & Di-dist, n. a writer of fabies.
Fabulist, & Di-dist, n. a writer of fabies.
Fabulist, & Di-dist, n. a writer of fabies.
Faceties, & Si-Si-Li, n. humorous writings or sayings.
Faceties, & Si-Si-Li, n. humorous writings or sayings. Facsimile, fak-sim'lé, n. an exact copy.
Fact, fakt, n. a reality; an act, something known.
Faction, fak'shun, n. a contending body of persons.
Factitious, fak-shus, ad/, disloyal; turbulent.
Pactitious, fak-tish'us, ad/, artificial.
Factor, fak'tor, n. an agent; a necessary element.
Factorage, fak'tor-in, n factor's commission.
Factory, fak'tor-in, n workshop; mill.
Factory, fak'to-in, n, bright spot on the sun
Factoria, fak'to-in, n, bright spot on the sun
Factoria, fak'to-in, n, bright spot on the sun Paculty, fak'ul-ti, n. mental power; special aptitude; officers of a university. Fad, fad, n. a hobby; a whim. Fade, fid, v. to decay.

Faldstool, fawid stool, s. a folding stool. [autumn. Falls, fawi, v. to tumble; to decline; s. descent; Fallaccious, fal-it shus, sad; misleading; delusive. Fallaccy, it shus, sad; misleading; delusive. Fallious, fail-st, s., something deceptive. Fallious, fail-s, sad; hable to err. Fallow, fail-o, sad; untrue; unfaithful. Falsee, fawis-sed; o, s. a voice above the natural compality, fawis-fil-t, s. a false statement. Falsity, fawis-fil-t, s. a false statement. Falsity, fawis-fil-t, s. a false statement. Falsity, fawis-fil-t, s. a false statement. Familiar, familiyer, adj. intimate Familiarity, famili-li-arit-t, s., intimate intercourse. Family, famil-li-arit-t, s., intimate intercourse. Familia, famili-s, s., to starve. Famous, famish, v. to starve. Famous, famish, v. to starve. Famous, famish, v. to starve. Famous, famish, and instrument for cooling; an apparatus for winnowing. Fan, fan, n. a hand instrument for cooling; an apparatus for winnowing.

Panalic, fan-at'ik, n. one who is excessively zealous.

Fanatical, fan-at'ik, n. one who is excessively zealous.

Fanaticalin, fan-at'ik, n. one who is excessively zealous.

Fanancipan, fan-at'ik, n. one wild; unreasoning.

Fanancipan, fan-at'ik, n. one beliepious enthusiasta,

Fancy, fan'si, n. imagination; taste; v. to imagine.

Fanancipan, fan-diffin, n. fourish of trumpets.

Fanfare, fan'fan, n. one one one one one of the fanancipan, n. tooth; tusk; claw.

Fangled, fang'id, ndi, new; gaudy.

Fanigled, fan'id, n. a banier.

Fantasia, fan-ta'iz'a, n. a fan-full musical composition.

Fantasia, fan-ta'iz'a, n. a fan-full musical composition. Fantastical, fan-tas'tik-al, ad/, whimsical; imaginary. Fantasy, fan'ta-si, n. a fancy; imagination, Fantasy, inn'ta-si, n. a fancy; imagination.

Par, far, and distant.

Farcical, far'sik-al, ad/, indicrous.

Farcical, far'sik-al, ad/, indicrous.

Farce, far, v. to get; to happen; n. price of transit.

Fare, far, v. to get; to happen; n. price of transit.

Fare, far, v. to get; to happen; n. price of transit.

Fare, far, v. to get; to happen; n. price of transit.

Fare, fare, v. to happen; n. price of transit.

Farina, fare, fare, ad/, inealv.

Farm, farm, n. land occupied for cultivation; v. to cultivate land; to let for profit. cuntvate land; to let for profit.

Faro, fa'ro, n. a card game.

Farraginous, far-ā'jin-us, ad/, jumbled.

Farrago, far-ra'go, n. a disorderly mass.

Farrier, far'i-cr, n. a horse-shoer; a horse doctor.

Farnow, far'ro, n. a litter of pigs.

Farthing, farthing, n. small com, quarter of a penny.

Farthingale, farthing-gāl, n. a hoop for distending a lady's dres Fascicle, fas'ıkl, n. a small bundle; a cluster. Fascinate, fas'ın-ât, v to charm.
Fascination, fas-in-â'shun, n. power to charm.
Fashion, fash'un, n. the prevailing style; custom; cut or form.

Sashionable, fash'un-abl, ad/, in the first mode.

Past, ad/, fixed, rapid; adv, firmly; n. abstinence

Past-day, fixed, rapid; adv, firmly; n. abstinence

Past-day, fast'di, n. a holy day of fasting. If from food,

Fasten, fas're, n. one who fasts

Fastidious, fast-fad'lus, ad/, hard to please; to

Fastidious, fast-fad'lus, ad/, speed; rapidity. [exacting.

Fat, fat, n. oily part of animal bodies; ad/, plump,

obese. or form Fatal, ad/. deadly; according to fate; mortal.
Fatalism, fa'tal-izm, s. the theory that all things are
foreordained. Fatality, fa-tal'it-I, n. a fatal occurrence.
Fate, fat', n. destiny; the appointed lot; necessity,
Fated, fa'ted, adj. destined; doomed. Father, fa'ther, n. male parent.
Father fa'ther, n. male parent.
Fatherland, fa'ther-land, n. the land of one's ances.
Fatherly, fa'ther-land, ad. paterna.
Fathom, fath'om, m's nautical measure—6 feet; v. to get to the bottom of.

Pathogoless, fath'oun-less, adj. bottomless.

Fatigue, fa-teg' n. weariness from exertion.

Fatiscent, fat'is-sent, adj. gaping.

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Patting, fat'ling, n. a young fatted animal.

Patten, fat'n. v. to make fat.

Patty, fat'l. ad', greasy.

Patty, fat'l. ad', greasy.

Patton, fat'i. v. to make fat.

Patty, fat'l. ad', greasy.

Pattones, fat'i. v. s. stupidity; mental feebleness.

Pattones, faw's c. n. a pipe, peg. or tap for letting

Pault, faw's n. a mythological protector of shepherds.

Pault, faw's n. a. mythological protector of shepherds.

Pavonit, faw's n. a. mythological protector of shepherds.

Pavonit, faw'or, n. a. mythological protector of shepherds.

Pavonit, faw'or, n. a. mythological protector of shepherds.

Pavonit, faw'or, n. a. person or thing in favour.

Pavonit, faw, faw's n. a. person or thing in favour.

Pavonit, faw, faw's n. a. person or thing in favour.

Pavonit, faw, faw's n. a. person or thing in favour.

Pavonit, a. small fairty.

Paw, faw, n. a. small fairy.
            Fay, fa, n. a small fairy.
Fealty, fê'al-tī, n. fidelity.
Fear, fer, n. alarm.
    Fealty, 1c:ai-ti, n. noeury.
Fear, fer, n. alarm.
Fearability, 6:2-bil'id. n. quality of being practicable.
Feast, fest, n. a festival; v. to entertain sumptuously.
Feat, fet, n. a remarkable achievement.
Feather, feth'er, n. a growth on a bird; a plume.
Feathery, feth'er-i, adj. covered with, or similar to, feathers.

[the countenance.]
  Feathers, Peter et a. a.g. covered with, or similar for feathers. The countenance.

Feature, [6t'ir, n. prominent external sign; specialty; Pebrifuge, feb'ri-fuj, n. medicine that natigates fever.

Febrile, Ir' bril, a.gl., connected with fever.

Fecal, [6t'al., a.gl., relating to drigs.

Fecal, [6t'al., a.gl., relating to heralds

Feck, fels, n. strength, vigonr, buils.

Feckless, [ck'less, a.gl., spiritless.

Fecula, fek'ula, n. starchy sedument.

Fecula, fek'ula, n. starchy sedument.

Fecundate, fek'undit, v. to make fruitful.

Fecundity, fek-un'dit, n. frutfulness.

[tton.

Federal, fed'er-al, a.gl., relating to a league or federal-

Federalist, fed'er-al-fst, n. a supporter of federalism.

Federalist, fed'er-al-fst, n. a supporter of federalism.

Federalist, fed'er-al-fst, n. a supporter of federalism.

Federalist, fed'er-al-fst, n. a fired together.

Fee, f. n. recompense; reward; freehold inheritance.

Feeble, felb, a.gl., weak

Feed, fed, v. to give food to; to eat.
    Reed, fed, v. to give food to; to eat.

Peel, fel, v. to perceive by touch; to be affected

Peeling, fe'ling, n. the sense of touch, emotion.

Peign, fan, v. to pretend.

Peint, fan, v. to pretende.

Peint, fan, v. to pretende.

Peilcitate, fe-ls'-it-si, v. to congretulate

Pelicitate, fe-ls'-it-si, a.d., happy, pleasant; suitable.

Peline, fe'lin, a.d., relating to cats; cat-like

Pell, fel, n. a. hill; a. skin; v. to cut down, to strike

to the ground; a.d., savage.

Pellow, fe'l'o, n. an equal; a man of smah account;
one who entows a university or other fellow-thm.
         one who enjoys a university or other fellowship

Fellowship, fel'o-ship, n. friendly communion; the

condition of being a fellow.
       condition of being a fellow. Felon, fel'on, n. a criminal. Feloninus, fel-o'ninus, ad., with criminal intent. Felony, fel-o'nin, n. a serious crime. [together. Felt, pt. coth material formed by matting fibres Felucca, fe-luk'á, n. a Mediterranean boat with sails and Female, fe'māl, n. the sex that bears young. [cars. Feminine, fem'u-in, ad., relating to wom n. womanly. Femoral, fem'a-in, ad., relating to the thigh.
            Fen, fen, n. low marshy land
            Pence, fens, n. hedge or wall round enclosed land
         Fencer, fen'ser, n. one who fences.
Fencible, fen'snlb, adj. capable of defence.
Fencing, fen'snlp, n. the art of sword-play: material
Fend, fend, v. to ward off. [for fence construction.
       Rend, (c.u.l. v. to ward off. [for fence construction. Render, for iden, w. a metal fire-guard. Renestral, fe-nes'tral, act, connected with or like a Renuel, forel, w. an aromatic plant. Renny, fent, ent, w. a remnant; a sit. Rent, fent, w. a remnant; a sit. Rent, fent, w. a remnant; a sit. Rent, fent, fef ment, w. the grant of a footf. Reraccous, fer Kebus act/ fruitful. Rerial, Fort-sl. act/ relating to holidays. Rerity, fer it.d., w. wildness. Rerity, fer it.d. act/ feating to holidays. Rerity, fer ment, w. an internal commotion; turnult. Resment, fer ment, w. an internal commotion; turnult.
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Ferment, fer-ment', v. to cause fermentation; to Fern. ern. n. a vascular cryptogamous plant. [agitate. Ferner9, fern'er-1, n. a place for keeping ferns. Femoclous, fer-0'shus, ad/, savage; herce. Ferrandine, fer'an-din, n. a fabric of silk and wool. Ferreous, fer'e-us, ad/, made of, or relating to, iron. Ferret, fer'et, n. a kind of weasel; v. to make close search.
                                          search.
   Perruginous, fer-ū'jin-us, ad/. partaking of iron.

Ferruginous, fer-ū'jin-us, ad/. partaking of iron.

Ferruginous, fer-ū'jin-us, ad/. partaking of iron.

Ferruginous, fer-ū'jin-us, ad/. partaking of iron.

Where people are-ferried.
   Ferry, ferl, v. to transport across water; n. the place
Fertille, fer'til, adj. fruitful.
Fertillise, fer'til-iz, v. & make fertille.
Fervont, fer'vent, adj. warm; eager.
Ferrid, fer'vent, adj. adjent.
   Pervour, fervor, n. zeal.

Pescennine, feren-in, adj. scurrilous.

Pescue, fes'kū, n a kind of grass; a letter pointer.

Pestal, fes'tal, adj. connected with a feast
Peatal, fes'tal, ad/. connected with a feast
Peater, fes'ter, v. to suppurate; to rankle.
Peater, fes'ter, v. to suppurate; to rankle.
Peater, fes'ter, v. to suppurate; to rankle.
Peaten, fes'twal, n. a rejoicing; a feast.
Peatoon, fes'twal, n. a rejoicing; a feast.
Peaten, fest, v. to go for and get.
Pete, fait, n. feast.
Petich, fe'tish, n. an object of supposed divine attri-
Petich, fe'tish, n. an object of supposed divine attri-
Petich, fe'tish, n. an object of supposed divine attri-
Petich, fe'tish, n. n. object of supposed divine attri-
Petich, fet'lok, n. the halt tuft behind a horse's
Petid, fet'lok, n. the halt tuft behind a horse's
Petter, fet'er, n. a chain for the feet', v. to restrain.
Pettle, fet'lo, n. a right to lands on paying fee or doing
Peud, füd, n. continued strife between families.
Peudal, füd, n. dontnued strife between families.
Peudal, füd, n. dontnued strife between families.
Peudal, füd, ad/ pertaining to feudal customs.
Peudalism, fü'dal ad/ pertaining to feudal customs.
Peudal füd, and sandla 
         Fey, fa, adj. fated.
      l-iasco, fl-as'ko, n. failure.
Fiat, fl'at, n. a solemn command.
Filst, frat, n. a solenn command.

Fibrit, fribn, n. a workable this case, animal or vecetable, fibrit, fribn, n. a small fibre [as wool, flax, silk, etc. Fibrit, fribn, n. a fibrous suistance manimals and brous, fibrous, adj made up of fibres. [plants-Fickle, fik'l, adj, changeable.

Ficklie, fik'l, adj, n. fathfulness; duty.

Ficklie, fik'l, a ficklie, adj, in trust

Ficklie, fik'l, a feudal grant

Ficklie, fik'l, a fe
      Fierce, fers, adj. ferocious.
Fiery, fi'er-i, adj. hot. ardent.
Fife, fif, n. a musical pipe.
Fifer, fi'fer, n. a fife player.
      Filer, fi., m. a tropical fruit.
Fight, fit, m. a contest: v. to contend.
Figment, figment, n. an invention
Figurative, fig "ura-tiv, ad/, metaphonical.
Figure, fig" ura-tiv, ad/, metaphonical.
Figure, fig" ura-tiv, ad/, marked with figures or designa.
Figurehead, fig" ur-hed, m. the figure on a ship's prow.
Filancous, fila shus, ad/, made of threads.
Filancous fila unit. n. a slender thread.
      ruaceous, fil-a'shus, adj. made of threads.
Filament, fila-unen, n. a slender thread.
Filamentous, fil-a-nen'us, adj. thread-like.
Filatory, fil-a-nen'us, adj. thread-like.
Filatore, fil-a-nen'us, adj. thread-like.
Filatore, fil-a-nen'us, n. the recling of silk.
Filet, filch, v. to steal.
         File, fil, n. a rasping instrument; a receptacle for
papers a line of soldiers; v. to work with a file.
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Filiate, fil'i-st, v. to adopt into a family.
Filibuster, fil'-bus-ter, n. a lawless adventurer, f.
Filiform, fil'-form, act, in the form of a threack
Filigree, fil'-gré, n. ornamental work in gold and
Fili, fil, v. to make full.
Filiet, fil'et, n. a band; thigh of veal.
Filibus, fil'-beg, n. the kift.
Fillip, fil', v. to strike with the finger nail; to drive.
Filly, fil', n. a young mare.
                                                                                                                                                                                                                                                                                                                                                                                                               Flag, flag, v. to grow weak; to cover with flag-stones; n. a banner.
Flagellants, flajfeflants, n. a religious sect who
                                                                                                                                                                                                                                                                                                                                                                                                             n. a banner.

Flagellants, fla'elfants, n. a religious sect who scourged themselves.

Flagellants, fla'el-st, v. to scourge or whip.

Flagellate, fla'el-st, v. to scourge or whip.

Flagellate, fla'el-st, n. a reed instrument.

Flaggy, flag', act. flexible.

Flaggy, flag', act. flexible.

Flaggin, flag'on, n. a drinking vessel.

Flaggant, flag'on, n. a drinking vessel.

Flagrant, flag'on, n. a drinking vessel.

Flagrant, flag'on, n. a drinking vessel.

Flagrant, flag'on, n. a ship that carries the admiral's flag.

Flagrant, flag'stal, n. pole from which a flag flies.
         Fillip, n. 11p. v. to strike with the inger nail; to drive. Filly, fil', n. a young mare. Film, film, n. a thin skin or thread. Film, film, n. a thin skin or thread. Filter, filter, n. a liquid purifying apparatus; v. to Filts, filsh, n. foul matter. Filmeriated, fin. bria'ted, adj fringed. Film, n. the jutting organ by which fish move and balance in the water.

Finable for ishle adj ishle to fine.
                                                                                                                                                                                                                                                                                                                                                                                                               Flag-staff, flag'staf, s. pole from which a flag flies.
Flail, fiāl, s. a threshing instrument.
Flake, fiāk, s. a small thin layer of anything.
 Fin. **. the jutting organ by which fish move and balance in the water.

Finable, fin'abl, ad/, liable to fine.

Final, final, ad/, last, conclusive.

Finalle, final'id, **. the last item at a concert.

Finalle, final'id, **. the last item at a concert.

Finalle, final'id, **. the last item at a concert.

Finality, final'id, **. the condution of being final.

Finance, finan's, **. money affairs; revenue.

Financial, fin-an'sal, **. do, relating to finance.

Financial, finan'sal, **. no ne who deals in funds, Finch, finish, **. a genus of brids.

Firevenues, etc.

Find, find, **. to discover; **. the thing found.

Fine, fin, **. penality; **. ad/, elegant, beautiful.

Finer, finer, **. one who refines metals.

Fineres, finer, **. an interie; jewels, etc.

Finesses in-es', **. article; trickery.

Finislal, fin'i-al, **. a terminating bunch of foliage (arch.).

Finisla, fin'i-al, **. a terminating bunch of foliage (arch.).

Finisla, fin'isla, **. to conclude; to perfect.

Finisla, fin'isla, **. to conclude.

Finisla, fin'isla, **. to conclude.

Fine fin, **. ad, having toes with connecting flord, ford, **. a have been discharged by expensive services.

Fire, fin, **. heat and light resulping from combustion.

Fire-arms, fir'arms, **. weapolis discharged by explosives.

Fire-brigade, fir'brigada, **. a body organised for fire-damn, fir'damn, **. an explosive gas found in fire-damn, **. an explosive gas found in fire-damp.
                                                                                                                                                                                                                                                                                                                                                                                                           Flake, fiak, n. a small thin layer of anything. Flaky, fiaki, adj. composed of flakes.
Flam, flam, n. a whim; an untruth.
Flambeau, flam'bo, n. a torch.
Flambeau, flam'bo, n. a torch.
Flame, flam, n. blaze; v. to blaze.
Flame, flam, n. blaze; v. to blaze.
Flammerous, flam'ficr-us, adj. flame-engendering.
Flange, flanj, n. the raised edge of a wheel.
Flank, flangk, n. the side of anything.
Flannel, flan'el, n. a warm woollen texture.
Flan n. the waving motion of a loose article; v. to
                                                                                                                                                                                                                                                                                                                                                                                                               Flap, so the waving motion of a loose article; v. to
                                                                                                                                                                                                                                                                                                                                                                                                         move with flapping action.

Flap-jack, flap jak, n. a pancake.

Flare, flar, v. to flash insteadily.

Flaring, flar jag, ad/, burning fitfully; gaudy.

Flash, v. to flash insteadily: n. a burst of light.

Flash, flash', ad/, showy; dazzling.

Flask, flash', ad/, showy; dazzling.

Flask, flash', ad/, showy; dazzling.

Flask, flar, n. level ground; section of a house let in separate suites; ad/, level; dull; monotonous.

Flatter, flar'er, n. to prase unduly.

Flattuence, flar'i-lens, n. wind on the stomach.

Flatus, flav'er, n. v. bute-player.

Flaunt, flawni, n. v. to display showly; to wave in the Flautist, flawtist, n. flute-player.

Flaw, flaw, n. a fefect: a fault.

Flax, flak, n. a flare flare, fair; like flax.

Flax, flak, n. to tear off the skin.

Flez, fla, n. a small irritating insect.
                                                                                                                                                                                                                                                                                                                                                                                                                                          move with flapping action.
         Fire-brigade, fir'brig-ād, s. a body organised for Fire-damp, fir'damp. s. an explosive gas found in coal mines. [water for putting out fires.
         Fire-engine, fir'en-jin, n. an engine for puniping Pirelock, fir'lok, n. a fire-arm fired through a lock with steel and flint.
                                                                                                                                                                                                                                                                                                                                                                                                               Flea, fle, n. a small irritating insect
         Fireman, fir'man, n. a member of a fire-brigade.
                                                                                                                                                                                                                                                                                                                                                                                                               Fleam, flem, n. an instrument for bleeding cattle.
         Fire-plug, fir'plug, n. plug for drawing water in case
of fire.
                                                                                                                                                                                                                                                                                                                                                                                                               Fleck, flek, n. a spot; v. to spot.
Flecker, flek'er, v. to spot or streak.
                                                                                                                                                                                                                                                                                                                                                                                                       Flecker, fick'er, v. to spot or streak
Flecker, fick'er, v. to spot or streak
Flecker, fiel, v. to furnish with feathers.
Fledging, fiel, v. to furnish with feathers.
Fleed, fiel, v. to rush away.
Fleec, fiel, v. to mock.
Fleet, fiel, v. to mock.
Fleet, fiel, v. to fashir, v. a navy.
Fleeting, fiel'nig, adr passing.
Flesh, fielsh, v. the substance which covers the bones
Fleshly, flesh'll, adr, camal.
Fletch, fiel, v. to feather arrows.
Flexible, fleks'il, adr, bilant.
Flexible, fleks'il, adr, bilant.
Flexible, fleks'il, adr, bilant.
Flexible, fleks'il, adr, adr, winding;
Flexue, fleks'il, adr, adr, winding;
Flexue, fleks'il, v. a bending.
Flicker, flick'er, v. to fatter; to waver.
       Pireworks, fir werks, n preparations of powder, etc.,
Firm, for kin, n. a quarter barrel. [for display.
Firm, form, ad., decided, strong; n. a business part-
Firmament, fer ma.ment, n. the sky. [nership.
Firman, n. a Turkish decree.
       Firman, ier man, s. s. Turkish decree.
Firstling, ferstling, s. the first produce of animals.
Firstrate, ferst' sit, sd., of the first excellence.
Firth, ferth, s. the mouth of a river.
Fiscal, fis'kal, sd., relating to revenue.
Fish, fish, s. an animal existing in water.
Fishery, fish'er-i, s. the fishing business; place where
Fishery, fish'er-I, n. the fishing pushess, fish are caught.
Fishmonger, fish'mung-er, n. a dealer in fish.
Fishy, fish'l, add, fish like; doubtful.
Fissile, fish'l, add, capable of being split.
Fissile, fish'l, add, capable of being split.
Fissirostral, fish-ros'tral, add, deep-beaked.
Fissirostral, fish-ros'tral, add, deep-beaked.
Fissirostral, fish-ros'tral, add, deep-beaked.
Fissirostral, fish-ros'tral, add, deep-beaked.
Fissirostral, fish'l, n. blows; boxing.
Fisti-law, fist'law, n. brute-force.
Fistila, fist'law, n. deep ulcer.
Fistila, fist'law, n. a deep ulcer.
Fit, fit, add, qualified; suitable; n. a sudder attack of Fitchet, n. a polecat.

[convulsions; a whim.
                                                                                                                                                                                                                                                                                                                                                                                                             Flicker, flick'er, v. to futter; to waver.
Flight, fift, m. act of flying.
Flighty, fif't, sad, giddy; fanciful.
Flimsy, flint'st, sad; weak; spiritless; thin.
Flinch, flinsh, v. to shrink.
                                                                                                                                                                                                                                                                                                                                                                                                             Plinch, flinsh, v. to shrink.

Pling, fling, v. to throw; n. a dance.

Plint, n. a stone of extreme hardness.

Plip, flip, n. spiced hot drink; v. to filip.

Plippant, flip'ant, ed/, pert; saucily fluent.

Plitt, flirt, v. to make love triflingly; n. a coquetta.

Plitt, flit, v. to flip; fly remove.

Plitth, flitch, n. the sfile of a pig, fured.

Plitter, flit'er, v. to flap wings.

Float, floy, v. to swim; n. a raft.

Float, floy, v. to swim; n. a raft.
       Pitchet, n. a polecat. [convulsions; a whim. Pitchel, n. a polecat. [convulsions; a whim. Pitches, n. suitability; condition of being Fix, fix, v. to fasten; to make firm. [qualified.
       Fix., n.s., w. to rasten; to make firm. [quantet. Fixity, fix?it.], n. state of being fixed; an appointed day. Fix., fix., w. to make a hissing south. Fix. fix., w. to make a hissing south. Fix. fix., fix., w. to see; soft. Fixed. fix. fix.; d. ad; weak; lax.
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Ploccillation, flok-sil-ā'shun, n. a delirious tearing and Plocculent, flok'kū-lent, adj. woolly; tufty. [picking. Plock, flok, n. a collection of animas; a company; v.
Floculent, flor'kth-lent, ass, woniy; wary, promus, Flock, flok, m a calection of animfis; a company; v. to congregate.

Flock, flor, master, m. a sheep-owner.

Flock, flor, m. to leah; to beat, Flock, flor, w. the part of a room on which people struct; a level area.

Floo, flot, w. the part of a room on which people struct; a level area.

Flor, flor, w. the part of a room on which people struct; a level area.

Flor, flor, w. to collapse; to fall limply.

Floral, flor'al, adi, pertaining to flowers.

Floral, flor'al, adi, bright-coloured.

Florid, flor'id, adi, bright-coloured.

Florid, flor'id, adi, bright-coloured.

Florid, flor'in, m. a two-shilling piece.

Florid, flor, m. loose sill.

Flotation, flo-ti'shun, m. the act of floating.

Flotation, flo-ti'shun, m. the act of floating.

Flotation, flo-ti'shun, m. the act of floating.

Flotation, florid, m. a small fleet.

Flotation, florid, m. a small fleet.

Flotation, florid, m. a small fleet.

Florid, florid, m. a small fleet.
     Flounder, flown der, v. to struggle helplessly.
Flour, flowr, n. finely ground wheat; any soft powder.
     Flourish, fler'ish, v. to thrive; to display showly; to blow a trumpet; to make ornamental strokes.
 blow a trumpet; to make ornamental struces. Flout, flowt, to to mock. Flow, flo, v. to run, as water; to move with current or Flower, flower, n. the bloom of a plant. [tude. Fluctuate, fluk'fli-dit, v. to rise and fall. Flue, fli, n. a connecting passage with a chimney. Fluency, floo'en st, n. readmess of speech. Fluid, floo'id, n. a liquid. [lucky chance stroke. Fluid, floo'id, n. a liquid. [lucky chance stroke. Fluid, flooin, n. an artificial water channel. Flummer, floon, n. an artificial water channel. Flummer, flumder! u. nonespeec a sour jelly made
     Flummery, flum'er-I, n. nonsense; a sour jelly made from oat husks.
   Flunkey, flungk'i, n. a livered servant; a fawning Flunkey, flungk'i, n. a livered servant; a fawning Flunkeyism, flunk'i-izin, n. servality.
Flurry, ferf. n. confused agitation.
Flush, flush, n. a rush of blood to the cheeks; fresh-
 nees; v. to startle; ad/ level with what adjoins. Fluster, flister, m. confusion, hurry; clatter. Flute, floot, n a musical pipe. Fluting, floot ing, n. fluted articles. Fluting, floot ing, n. fluted articles. Fluting, floot, no move quickly; to excite. Flux fluks, n. the act of flowing. Flux, fluks, n. the act of flowing. Fluxible, fluks'ibl, ad/; capable of being melted. Fluxion, fluk'shup, n. a discharge. Fly, fll, v. to move with wings; to depart suddenly; n. Fly-blow, fliblo, n. a fly's egg. [a winged insect. Fly-bloot, fli'blo, n. a narrow swift hoat Fly-wheel, fli'wheel, n. a large wheel for equalising the motion of machinery.
                             ness; v. to startle; ady level with what adjoins.
     Foal, fol, s. the young of a mare or ass.
     Foam, fom, s. froth.
Fob, fob, n. watch-pocket.
Focal, fo kal, adj. relating to a focus.
     Focus, fo'kus, n. point to which rays converge. Fodder, fod'er, n. cattle food.
   Fodder, fod'er, n. cattle food.

Foe, fo, n. an enemy.
Foe, fo, n. an enemy.
Foe, fo, n. thick mist; a vecond crop of grass.
Fog bank, fog bangk, n. a mass of sea fog.
Fogry, fog'l, and, old-fashtoned dull fellow.
Fogry, fog'l, and, misty.
Fodlate, foil, n. a moral weakness.
Fodl, foil, n. to defeat; n. metal leaf.
Fodst, foist, n. to pass off.
Fold, fold, n. to enfold; to lay one part on another;
n. an enclosed space.
Tolder, fold'er, n. a folding instrurgent.
Foliacrous, fol-Id'shus, ad. pertaining to leaves.
Foliacie, fo'l-Id'shus, n. to make into leaf form.
Foliation, fol-Id'shun, n. the leafing process. [sheet.
Foliation, fol-Id'shun, n. the leafing process. [sheet.
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Folk, fak, **. people.
Folklose, fak'for, **. the study of ancient customs.
Folkmose, fak'mor, **. an Anglo-Saxon popular
Folklose, fol'kk, **. a gland; a seed-vessel. [assembly.
Follow, fol' 0. **. to go after: to practise; to imitate.
Folly, fol', **. foolishness.
Follow, fol', **. foolishness.
              Founds, forment', v. apply warm lotions,
Founds, fond, ads, foolishly loving.
Fondle, fond's, v. to caress.
Font, font, n. fixed vessel used for baptisms; an
         Font, font, n. fixed vessel used for baptisms; an equipment of one sort of printing type.

Fool, fool, n. a weak-minded person; a jester.

Foolery, fool'er, n. folly.

Foolbardy, food'hard-bad/, rash.

Fool, fool, n. the extremity of the leg; the part on
which a thing stands; 12 inches.

Footboy, foot'boo, n. a liveried boy attendant.
Footpad, foot'gaw, n. a footstep.
Footpad, foot'gad, n. a robber on foot.
Footpad, foot'gad, n. a robber on foot.
Footpad, foot'step, n. a footmax.
Footstep, foot'step, n. a footmax.
          Fop, M. a dandy.
       Fop, N. a dandy.

Foppery, fop'er-I, N. vanity in dress.

Forage, for'āj, N. cattle food; v. to go in quest of such

Foramen, for-a'men, N. a small opening. [food.

Foray, for'ā, N. a plunder raid.

Forbear, for-bār', N. to resist; to abstain.

Forbearance, for-bār'ans, N. clemency; patience.

Forbid, for-bid', N. to proluht.

Forch, fors, N. strength; power; v. to compel.

Forcement, fors'met, N. meat chopped fine for
                                  stuffing.
       Forcepa, for seps. ** surpical pincers for grasping-forcible, for the adv. with vigour; by force. ** Ford, ** place where water can be crossed by weding. Fordable, fordabl, ** adv. capable of being forded. Fore, for, adv. in front, ** adv. at the front; previously. Forearm, for form, ** to forebet; to arm in advance. Forebode, for-bod', ** v. to feel a presentment of evil. Forecast, for-kast, ** v. to foresee; to predict. Forecast, for-ka's, **, the raised deck at the front of Foreclose (see Business Dictionary Section). Forecasting, for-ki's, hur, ** the act of foreclosing.
       Poreclose (see Business Dictionary Section).
Poreclosure, for-kl0'zhur, n. the act of foreclosing.
Pore-end, for-end, n. the front part.
Porefather, for-end, n. the front part.
Porefather, for-end, n. the front part.
Poregon, for-gn', n. to give up; to forbear
Poregone, for-gn', n. dj', concluded beforehand.
Poreground, for-grownd, n. the front portion of a
Porehanded, for-hand'ed, n.' in advance. Ipicture.
Porehead, for-in-n', ed, pertaining to another country.
Poreknow, for-kno', n. to know beforehand.
Poreland, for-land, n. a bock of bair overhanging the
Poreman, for-mn', n. the leading man; an overseer.
Porenusc, for-mn', n. the leading man; an overseer.
Porenusc, for-un', n. to go before
Porerunner, for-run', n. a harbinger.
Poresee, for-se', n. to go before
Poresee, for-se', n. to anticipate; to know beforehand.
         Forese, for-set, n. a naromger.

Poresee, for-set, n. to anticipate; to know beforehand.

Foreshore, for'shor, n. the part between high and low water marks. Itim of figures in projection.

Poreshortening, for-short'en-ing, n. the representations of the forest, n. a large tract of wooded land.

Forestall, for-stawl, n. to anticipate.
            Forester, for est-er, n. a forest keeper.
Foretaste, for tast, n. anticipation.
          Forestate, for first, n. anticipation.

Portetil, for-tel', v. to juredict.

Forethought, for thaws, n. thought for the future.

Foretop, for top, n. platform at head of foremast.

Forewarn, for-wawnt, v. to warn beforehand.

Forfeit, for fit, v. to lose a right by an offence.

Forge, forj, n. a furnace; blacksmith's shop; v. to

form, to fabricate.
            Forger, forj'er, n. one guitty of forgery.
Forger, forj'er, n. one guitty of forgery.
Forget, or forger, n. the trime of counterfeiting.
Forget, or lose memory of; to neglect.
Forgive, forgiv', to overlook'; to pardon.
              Forgigeness, for-giv'nes, s. pardon.
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Fork, fork, n. a pronged instrument.
Roriora, for-lorn', ad/, wretched; forsaken.
Rorm, n. shape; outline; mould; system.
Rormal, for mail, ad/, according to form or ceremory.
Formalist, for mailst, n. one devoted to formalities. Rormallet, for malist, n. one devoted to formalities.

Rormative, form's-tiv. adv. plving form.

Former, form'er, adv. before in time or order.

Formic, form'is, adv. relating to ants.

Formidable, for mid-abl, adv. strong; fearful.

Formular, for mid-av., n. book of forms.

Formulate, form'u-lat, n. to act few of forms.

Formulate, form'u-lat, n. to act lewdly.

Forsake, form's-lat, n. to act lewdly.

Forsake, forsak' n. to abandon.

Forsooth, for-sooth', adv. certainly; truly,

Forswear, for-swar', n. to deny on oath; to swear

Fort, fort, n. a small outer fort.

Forte, fort, n. that for which one has a special apti
Forth, adv., forward, onward.

[tude.

Forth, adv. forward, onward. Forth, adv. forward, onward.
Forthcoming, forth-kunving, adj. on the point of Forthwith, forth-with, adv. at once. [appearing. Fortification, for tif-ik-ā'shun, n. defensive works. Portification, for-ti-lik-lishun, n. defensive works.

Portitude, for th-tid, n. strength to endure.

Portress, fort res, n. a fortified position.

Portuitous, for-ti-lik, n. a chance happening.

Portuna, for til-nāt, ad., lucky; successful,

Fortuna, for tiln, n. a market place; a court.

Porward, for werd. ad., in front: ready; presumptuous.

Porwardness, for werd-ness, n pertness; readmess.

Fossil, for, werd-ness, n pertness; readmess.

Possil, for, in, petrified remains.

Possiliferous, fos-il-li-for-us, ad. contaming fossils.

Possiliferous, fos-il-li-for-us, ad. contaming fossils.

Possorial, fos, J-f-al, ad., burrowing

Poster, foster, n. to encourage, to bring up. Foster, fos'ter, v. to encourage, to bring up.
Fosterage, fos'ter-å, n. the act of fostering.
Foster-child, fos'ter-child, n. a child brought up by one not its parent. [not his own. Foster-son, [os'ter-son, n. hoy brought up by parents Fother, n. a load; a weight of lead of 19] cwt. Foul, fowl, adv. impure, unfair, stormy. Poul, fowl, adv. injure, unfair, stormy.
Poul, fowl, adv. injure, unfair, stormy.
Pounart, foo indr, n. the polecat.
Poundation, fownd-a'shun, n. base; groundwork.
Poundation, fownd-a'shun, n. base; groundwork.
Pounder, fownd-a'n, n. place where metal cashings are
Pountain, fownt-an, n. a place where metal cashings are
Pountain, fownt-an, n. a place where metal cashings are
Pountain, fownt-an, n. a place where metal cashings are
Pountain, fownt-an, n. a place where metal cashings are
Pountain, fownt-an, n. a natural or artificial spring of
water; the source of thing.
Powler, fowl-en, n. a plant with glove-like flowers.
Powler, fowl, n. a. will be under the flowers.
Powler, fowl, n. a. will be under the flowers.
Powler, fowl, n. a. comming.
Practice, flack-chun, n. a. small piece; any part of a
Practious, frakt-chun, n. a. small piece; any part of a
Practious, frakt-chun, n. a. small piece; any part of a
Practious, frakt-chun, n. a. small piece; any part of a
Practious, frakt-chun, n. a. breakage of hone; z. to break,
Pragaran, fraygiri-a. n. pleasant to the smell Pragile, fraj'il, n. frail; brittle. [genus. Pragment, frag'ment, n. a piece. Pragrance, ird'grans, n. pieasant to the smell. Pragrant, ird'grant, adj. of pleasing odour. Prail, frail, adj. weak. Prailty, frail'ti, n. weakness. Prame, fram, n. a border; v. to shape. Pramework, fram'werk, n. an outline; a frame. Pranc, frail, n. a. border; v. to shape. Pramework, fram'werk, n. an outline; a frame. Pranchise, fran'elit, n. privilege; right of voting. Pranchise, fran'elit, n. privilege; right of voting. Pranchise, fran'elit, adj. easily broken. Pranchise, fran'elit, adj. easily broken. Prankensten, frangk'al-moin, n. an old land tenure held on condition of offering prayers for the donor. Prankenstein, frangk'el-moin, n. an imagined monster

Frankenstein, frangk'en-stin, n. an imagined monster

Frankincense, frangk'in-sens, n. a sweet-smelling Arabian resin. Arabian resin.

Franklin, frangk'lin, s. a medizaval freeholder

Franklin, frangk'lin, s. a medizaval freeholder

Frantic, frantik, saf, mad; raving.

Frappe, fraps', sarticiple, iced.

Frater, fra'ter, s. a fraz.

Fraternis, fra'ter'nal, saf, brotherly.

Fraternise, fra'ter-niz, v. to associate like brothers.

Fraternise, fra'ter-niz, v. to associate like brothers.

Fratericide, fra'tri-sid, s. the murder of a brother; a

brother's nurderer. brother's nurderer.

Fraud, frawd, n. imposture; trickery.

Fraudulent, fraw'diolent, adj. dishonest.

Fraught, frawt, n. charged with; loaded; full. Fraught, frawt, n. charged with: loaded; full.
Fray, fra, n. an affray; v. to wear away.
Freak, frek, n. caprice; a monstrosity.
Freaklah, frek!sh, ad., capricous.
Freckle, frek!s, a. a brown skin-spot; v. to spot.
Free, fre, ad., at liberty; untrammelled; generous.
Freebooter, fre'bonot-er, n. one who robs and pillages
Freebooter, fre'bonot-er, n. one who robs and pillages
Freebooter, fre'bonot-er, n. one who robs and pillages
Freedoman, fre'dman, n. a liberated slave.
Freedoman, fre'dman, n. a liberated slave.

Freedom, fre'dom, n. liberty; licence; undue familiFreeband, fre'dman, d.d., drawing with the hand free
from quidance. Freehold, field, and, urawing with the failst effect from guidance.

Freehold, field, n. property in absolute ownership.

Freehold, field, n. property in absolute ownership.

Freeman, fre'man, n. a man enjoying liberty; the holder of a civic privilege.

Gluty free.

Free-port, field, n. a port where goods can enther present fre'ston, n. stone that admits of free cutting. Freestone, frestron, n. stone that admits of free cutting sandstone or grid.

Preethinker, fress, n. freedom to exercise the will.

Freezell, freswis, n. freedom to exercise the will.

Freezel, fress, n. cargo; goods in transport.

Freightage, fracti, n. fee chargeable for freight Freezy, fren zi, ads. violent mental agitation.

Frequency, freskwent, ads. often occurring.

Fresco, fress ko. n. painting upon plaster.

Fresh, fresh, ads. healthy; new; strong.

Fresh-blown, ads, just budded

Freshet, freshet, n. a pool or stream of fresh water.

Freshet, freshet, n. a pool or stream of fresh water.

Freshet, freshet, n. a pool or stream of fresh water. Freshman, fresh'man, n. a first year university student Freshwater, fresh'waw-ter, n. inland water, not sea-Fret, fret, to wear away; to irritate; to sorrow. Fretful, fret'fool, adj. peevish. Fretwork, fret'werk, u. ornamental perforated work. Friable, fri'abl, adj. crumbly. Friar, fri'er, n. a mendicant monk. Friary, fif'ar i, n. a monastery.
Fribble, fril', n. to trifle; n. one who trifles.
Fricassee, frik-as-se', n. a stew of fowl, etc.
Friction, frik'shun, n. the act of rubbing; unpleasans Friction, ink sum, n. the act of rubbing; unpleasane relation, n. an intimate associate; a Quaker.
Friend, frend, n. an intimate associate; a Quaker.
Friendship, frend'ship, n. mutual regard.
Frieze, frez, n. a coarse cloth; an ornamented space below the comice.
Frigate, frig'ai, n. a two-hatteried warship.
Fright, frif, n. sudden terror; an absurd figure.
Fright, frif, n. sudden terror; an absurd figure.
Fright, fril, n. a rufle.
Frild, fril, n. a rufle.
Fringe, frin), n. ornamental bordering; the edge
Fringer, imperi, n. tawdry finery.
Frisker, frix, n. to play about; to gembol.
Frisket, frisket, n. frame for holding paper while being printed.
Friskry, firskt, ad; lively; frolicsome.
Frit, frit, n. materials mixed for glass making.
Frith, frith, n. a narrow inlet; a forest.
Fritter, friter, n. agamal pancake; n. to waste time
Fritterer, friter-er, g. a time waster.
Frivolity, firu-ol'it-i, h. heedless gaiety.
Frivolous, frivulus, ad; triffing. relations. Frivolous, friv'ul-us, adj. trifting.
Frizz, frig. v. to curl; s. a curl.
Frizzle, friz'l, v. to put in short curls.

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Frock, fick, n. a loose outer garment.
Frog, frog, n. a well-known amphibian; ornamental
Frolle, froll's, ad/, merry; n. galety. [braiding.
Frollchome, frol's, sun, ad/, sportive; gay.
Frond, find, n. the leafy expansion of palms and ferms.
Frondescence, frond-es' ens, n. the act of putting forth
  Frondiferous, frond-if'er-us, ad/. frond-bearing.
Front, frunt, n. the forepart of a thing; boldness; v.
to face.

Frontage, frunt'al, n. the front of a building.

Frontag, frunt'al, nat. relating to the front.

Frontier, fron'ter, n. verge; border.

Frontier, fron'ter, n. a band worn on the forehead.

Fronte, fron'ter, n. a band worn on the forehead.

Froth, front'ter, n. a band worn on the forehead.

Froth, front, n. foam.

Frothly, froth't, n. day, abounding in foam; empty.

Frounce, frowns, v. bo plait.
                             to face.
    Frounce, frowns, v. to pait.
Frouze, frow'zi, adj. tangled; rough
Prouzy, frow zi, ad., tangled; rough.

Froward, fiv wend, ad., beverse, self-willed.

Froward, frowned, ad., beverse, self-willed.

Froward, frowned, ad., fruit-bearing.

Fracted, frukt-de, ad., fruit-bearing.

Fructed, frukt-de, rot, ad., fruit-bearing.

Fructifferous, frukt-lifer-us, ad., fruit-bearing.

Fructifferous, fruit-de-rous, ad., fruit-bearing.

Frugal, from fall, ad., economical.

Frugality, froogalit-l, n. thift; economy.

Frugilterous, frool-lifer-us, ad., fruit-yielding.

Fruit-lifer, froot-ler-en, ad., fruit-yielding.

Fruit-froot-froot-lifer-en, ad., fruit-yielding.

Fruit-froot-froot-lifer-en, ad., fruit-yielding.

Fruit-froot-froot-lifer-en, ad., fruit-yielding.

Fruit-froot-froot-lifer-en, ad., fruit-seller.

Fruit-froot-lifer-en, self-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rous-lifer-en-rou
  Primentaceous, troomenta's nus, adj. made of or pertaining to grain. Frumenty, froomen-it, n. food made of wheat and Frump, frump, n. a dowdy. [milk boiled together. Frush, frush, n. the frog of a horse's foot. Frustrable, frustrable, adj. capable of being pre-Pustrate, frus-trait', v. to foil: to defeat. [vented.
      Frutescent, froo-tes'ent, adv. growing shrubby.
Frutes, froo'teks, n. a shrub.
Fruticose, froo'tf-kös, adv. shrubby. [your
                                                                                                                                                                                                                                                                                                              [young fish.
      Fruchis, fu'sh's, n a pan over a fire; swann of Fruchisa, fu'sh's, n a plant bearing red flowers. Fuddle, fud'l, v, to make drunk. Fudge, fudl, n, nonsenye.
      Fuel, fu'el, s. material for fire
      Fugacious, fu-ga'shus, adr. fleeting.
                                                                                                                                                                                                                                                                                                                [absconder.
      Fugie-warrant, fü'gi-wor'ant, n. writ to arrest an Fugitive, fü'nt-ıv, n. one who has escaped; one who
    Pugnitve, füjtiv, none who has escaped; one who flies from justice; adv. uncertain; fragmentary.

Fugleman, fügl-man, n. a solder who acts as leader for others on drill; a ringlender.

Fugue, füg. n. a musical composition in which one part follows or answers another.

Fulcrum, fülkrum, n. a support on which a lever Fulfill, fool-fil' n. to achieve; to complete. [rests. Fulfirmen, fool-fil'ment, n. completion.

Fulgency, ful'pen-si, n lustre, brightness. Pull, fool, adt, containing all that can be held; comfuller, fool'er, n. a cloth bleacher. [plete, abounding.]
      Fulliers, fool'er, n. a cloth bleacher, tpiete, abounding. Fulliners, fool'nes, n. the state of being full. Fulmart, tul'mar, n. a species of petrel. Fulminate, ful'main, r. to thunder; to explode. Fulmine, ful'min, n. a compound of mercury and fulfulsom, ad/n. nuseous. [minic acid. Fullvid, ful'vid, ad/n. deep yellow.
    Fulvul, di/vul, ad, deep yellow.
Fulvous, ful'vus, ad, deep yellow.
Fulvous, ful'vus, ad, tawny.
Fumatory, fu'ma-to-ri, n. place for smoking.
Fumble, fun'bl, v. to grope about; to handle clumsily.
Fume, fum, n. smoke; heat; v. to get into a rage.
Fumid, fil'mid, ad, smoky.
Fumigate, fu'migāt, v. to smoke ato cleanse.
Fumous, fun'us, ad, emitting fagnes.
Fun, fun, s. drollery, sport.
Funambulate, film-am'bū-lāt, v. to walk on a rope.
Funambulate, film-am'bū-lāt, v. to walk on a rope.
Funambulate, film-am'bū-lāt, v. to rope-walker.
Faction, fungk'shun, n. an office; a ceremiony.
Functional, fungk'shun, n. an office; a ceremiony.
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Functionary, fungk'shun-ar4, n. one who discharges certain functions.

Find, fund, n. capital; money supply for any enterFind, fund, n. capital; money supply for any enterFundamental, fund-di-ment'al, adj. essential; primary.

Fundus, fin'dus, n. the bottom of a thing.

Funereal, fund'real, adj. dismal; mournful,

Fungribles, fun'fi-blz, n. perishable movables.

Fungous, fung goid, adj. like a fungus.

Fungous, fung goid, adj. like a fungus.

Fungous, fung gus, n. a spongy growth, as mushrooms.

Fundular, fü-nik ü-lar, adj. fibrous.

Funk fungk, n. fright; v. to shrink from; to fear.

Funnel, fun'l, n. an instrument through which liquids

are passed nito close vessels; a stack or tube for Funniel, fün'l, s. an instrument through which liquids are passed hito close vessels; a stack or tube for Funny, fun'l, ady, droll. [carrying off smoke Fur, fer, s. the hair of certain animative off smoke Fur, fer, s. the hair of certain animative off smoke Fur, fer, s. the hair of certain animative. Furshels, fur'hsib, s. d., thevish. Furshels, fur'hsib, s. d., he a founce. Purtosh, fur'hsit, ad, s. or enovate; to polish. Furcate, fur'kit, ad, forked. Furshels, forked. Furshels, fur'hsib, s. d., branny. Furfurcol, fur'hus, ad, s. a volatile oil from bran, etc. Furlon, g. d'rtus, ad, ragnig, violeut.

Furl, furl, v. to draw up.

Furlong, fur'long, s. 40 poles. Rurl, furl, v. to draw up.
Furlong, furlong, n. 40 poles.
Furlong, furlong, n. 40 poles.
Furlongh, furlo, n. leave of absence.
Furnace, furnas, n. an enclosed fire for melting subFurnish, dirinsit, v. to supply: to equip. [stances.
Furniture, furnitair, n. movable household furnishFurrier, furlor, n. a dealer in furs.
Furriery, furlyer, n. fur-trading.
Furrow/furlor, n. tench cut by a plough.
Further, further, adv more distant; fidditinal.
Furtherance, furtherlans, ad/, the most distant.
Further, furtiv, ad/, stolen; stealthy.
Furuncle, furlung-kl, n. inflanned tumour.
Fury, furl, n. uncontrollable rage.
Furze, furz, n. prickly gorse. Furze, furz, n. prickly gorse.
Furze, furz, n. prickly gorse.
Fuscous, fus'kus, ad/. brown; faded.
Fuse, fuz, v. to melt; n. combustible substance for
Pusee, fuze n. a match. [firing nimes, shells, etc.] firing nimes, shells, etc Fusible, fü'zibi, adj. capable of being melted.
Fusil, fü'zil, n, a light musket.
Fusileer, bi-zi ler', n, formerly a solcher armed with a fusil: now a regimental title only.

Pusillade, fü'zil-ād, n. simultaneous d.scharge of fireFusion, fu'zhun, n. act of meiting.

[arms. Puss, for, m. bustle; flurry.
Puss, for, m. bustle; flurry.
Pust, fust, n. the shaft of a column . mouldiness.
Pustlet, fiveter, m. the Venetian similarly.
Pustlan, luvit an, n. a kind of cotton cloth.
Pustlet, in stitk, n. a. West Indian word used in dyeing Fusing atom, fas fred Shun, n a thrashing with a stick.
Fusty, instit, and mouldy; bad-sineling.
Futil, fit-til, and useless.

[less thingsFutilitation for the come; are that will be
futilitation for the come; are that will be Futurity, fu-tu'ri-ti, n. the time to come. Fuzz, fuz. v. to break off in small fragments with a Fuzzy, fuz!, a.?/, covered with fuzz. [hissing sound. Fyke, fik, n a bag fishing net.

G

Gabardine, gab-er-dēn', n. a loose outer garment.
Gabble, gab'l, n. idle talk; v. to jabber, [for defence,
Gablon, ga'blon, n. a wucker basket filled with earth
Gable, ga'bl, n. the triangular part of the end of a
Gad, gad, n. a pointed bar; v. to roam.
Gadhy, qa'd'fil, n. a fly that stings cattle.
Gaelic, ga'lik, adi, relating to the Gauls.
Gaelic, ga'lik, adi, relating to the Gauls.
Gaeler, ga'er, n. foreman.
Gage, ga', v. to stop the mouth.
Gage ga', n. a pelege.
Galety, ga'o-t, n. mirth.

dāy; āt; ārm; ēve; ēlk; thêre; Joe; pin; machine; bold; pot; storm; mūte; tub; būrn.

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Gain, gan, s. profit; advantage; v. to obtain,
Gainsay, gan'sa, v. to deny.
Gairish, see Garish.
                                                                                                                                                                                                                                                                                                                        Garrulity, gar-ul'it,' n. loquacity.
Gairish, 'see Gartich.

Gait, gat, u. manner of walking.

Gaits, gat, u. manner of walking.

Gaits, gat is, u. ankle covering.

Galacy, gat is, s. outdoor festivity.

Galactometer, gal-ak-tom'e-ter, s. an instrument for Galaxy, gat aks-t, s. the Milky Way; any brilliant Galbanum, gat ban-m, s. a resinous juice. [assembly. Galeated, ga'le-ak-ted, ad/, hooded.

Gallang, gal'-ah, s., lead ore.

Gall, gawl, s. bile; bitterness.

Gallant, gal-ant', s. an attendant; a lover.

Gallant, gal-ant', s. an an attendant; a lover.

Gallent, gal'ar-t, s., a morous attention; bravery.

Galleon, gal'e-on, s. an old-time Spanish vessel.

Gallery, gal'er-t, s. part of hall supported by pillars;
                                                                                                                                                                                                                                                                                                                                       eating.
 Galleon, gal'e-on, n. an old-time Spanish vessel.
Gallery, gal'erl, n. part of hall supported by pillars;
an upper floor; a balcony.
Galley, gal'i, n. a low flat vessel.
Galliard, gal'yerd, n. a Spanish dance.
Gallician, gal'is, adj. connected with France (Gaul).
Gallician, gal'is-izm, n. a French expression.
Galligaskins, gal-i-gas'kinz, n. a kind of hose or leggings.
Galligaskins, gal-rgas kinz, n. a kind of hose or leggings.

Gallinaceous, gal-in-a'shus, ad/, pertaining to domesti-
Gallinaceous, gal-in-a'shus, ad/, pertaining to domesti-
Galling, gal-iv-ant', v. to firt.
Gallon, gal'un, n., i quarts.
Gallon, gal'un, n., i quarts.
Gallon, gal'un, v. to advance by leaps.
Galloway, gal'o-wa, n. a strong pony, originally from Galloway, gal'o-wa, n. a originally from Galloway, gal'o-wa, n. a strong pony, originally from Galloway, gal'o-wa, n. a strong the galloway.

Galloway, gal'o-wa, n. a originally from Galloway, gal'o-wa, n. a strong the galloway.
                                                                                                                                                                                                                                                                                                                                         heat.
      Gambado, gam-ba'do, w. a kind of leather legging
   Gambado, gam-bá'do, n. a kind of leather legging.
Gamble, gam'bl, v. to play games for money; to bet.
Gambler, gam'bler, n. one who gambles.
Gamboge, gam-bój', n. a yellow pigment.
Gambol, gam'bol, v. to frisk about.
Gambrel, gam'brel, n. a horse's hock.
Game, gam, n. play; birds or animals that are hunted.
Gamesome, gam'ster, n. a gambler.
Gament, gam'in, n. a street arab.
Gammer, ram'er, n. an old woman
    Gammer, gam'er, n. an old woman
Gammon, gam'on, n. nonsense; thigh joint of bacon.
                                                                                                                                                                                                                                                                                                                                          universal
    Gamut, gam'ut, n. the musical scale.
   Gamut, gam'ut, m. the musical scare.
Gander, gan'der, n. a male goise.
Gang, gang, n a band; a company; a crew.
Ganger, gang'er, n. foreman of labourers.
Ganglion, gang'glion, n. a tumour.
Gangrene, gang'gren, n. mortification
Gangway, gang'wa, n. passage way between a ship
and the shore.

Ganger n. a wah-frosted sea-hird.
   Gannet, gan'et, n. a web-footed sea-bird.
Gantlet, gant'iet, n. a glove.
Gantry, gan'tri, n stand for barrels; crane platform.
Gaol, jal, n. a prison.
   Cang, gap, s. an opening; an interstice.

Gape, gap, s. to yawn

Garage, gar £2h, s., a storehouse for motor vehicles.

Garbage, gar £3h, s., refuse: rubbish.

Garbage, gar £1, s. to corrupt; to alter for selfish ends.
 Gargattan, går-gar'tú-ån, ad/, cnormous. [ing. Gargele, går'gl, v. to rinse the throat without swallow Gargolle, går'gl, v. to rinse the throat without swallow Gargolle, går'gol, w. grotesque projecting figure in Garish, går'ish, ad/, showy. [stone. Garland, går'land, v. a wreath. Garlic, går'lik, v. a puugent, bulbous plant. Garment, går'ment, v. an article of clothing. Garnet, går'net, v. a red precious stone.
 Garnet, garnet, w. to store of
Garnet, garnet, w. a red precious stone.
Garniture, garnet, w. to adorn.
Garnet, garet, w. a top room.
Garret, garten, w. band of soldiers occupying a
   Garrote, gar-rot', v. to strangle,
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Garring, gar'u-ius, and talkative.

Garter, gar'ter, m a band for holding the stocking up, badge of the Order of the Garter.
       badge of the Order of the Garter.
Gas, gas, w. a vaporous substance, such at that obtained from coal for lighting purposes.
Gasalier, gas-il-ir', w. suspended frame for gas lights.
Gasconade, gas' kondd, w. boastfulness.
Gascous, gas' e-us, adi, of the nature of gas.
Gash, gash, v. to cut; w. a cut.
Gaskina, gas-kins, w. leggings.
Gasolene, gas'-o-len, a petroleum product.
Gasp, gasp, v. to labour for breath.
Gastric, gas'trik, adi, connected with the stomach.
Gastronomic, gas-tro-nom'ik, adj. relating to good eating.
   castronomic, gas-tro-nom'ik, adj. relating to good eating.
Gastronomy, gas-tron'o-mi, s. the art of good eating.
Gather, gather, v. to assemble; to collect.
Gaudy, gaw'dt, adj. showy.
Gauge, gâj, s. a measure: v. totmeasure.
Gauger, gâj, s. a measure: v. totmeasure.
Gauger, gâj, s. a measure: v. totmeasure.
Gauger, gay'er, s. an official who measures excisable
Gaunt, gawn, s. transparent cloth or other open
Gause, gaws, n. transparent cloth or other open
Gavel, gavel, n. a maillet.
Gawk, gawk, n. a stupid person; adj. left, as in left.
Gawky, gawk'i, adj. ungainly.
Gay, gâ, adj. merry; lively.
Gaze, gâz, v. to stare; to look.
Gazelle, ga-zel', s. a mewspaper; an official record.
Gazetteer, gaz-ēt-ēr', n. a geographical dictionary.
Gazing-stock, gāz'mg-stok, n. something set up for
Gear, gêr, n. dress; harness; tackle.
Gehenna, ge-hen'a, n. the Hinnon valley of sacrifice;
Gelatine, jed'a-ten, n. a substance that dissolves under
heat.
           heat."

Geld, v. to castrate; n. tribute in olden times.

Geld, d. to castrate; n. tribute in olden times.

Geld, iel'id, adi, icy.

Gem jem, n. a precious stone; a jewel; to deck with

Gem jem, n. a precious stone; a jewel; to deck with

Gemination, jem-in &'shun, n. repetition. [jewels.

Gemmatte, jem'at, v. bearing butis.

Gemmatton, jem-āshun, n. the act of budding.

Gender, jem'der, n. sex.

Genealogical, jem-ēs-l-o)'ik-al, adj. relating to lineage.

Genealogy, jem-ēs-l'o-j, n. study of descents.

Genealogical, jem-ēs-l-o, n. study of descents.

General, jen'er-al, n. a commanding officer; edj.

universal.
controlled to the control of the con
                  Generalisation, jen-er-al-i-zā'shun, s. the act of put-
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Gentleman, jent'i-man, n. one of good birth; a person of position or refinement Gently, jent'il, edf, softhy. Gentoe, jen'ico, n. a Hindu. Gents, jen'ico, n. a group; a family; a species. Genuine, jen'ico, n. a group; a family; a species. Geocentric, je-o-cen'irith, edf, contred in the earth. Geodes, je'od, n. a bollow nodule of stone. [earth. Geodes, je'od, n. a bollow nodule of stone. [earth. Geodes, je'od, n. a bollow nodule of stone. [earth. Geodes, je'od, n. a bollow nodule of stone. [earth. Geodes, je'od'is-l, n. the science of measuring the Geography, je-og'raff, n. the science of the earth's sarsince and inhabitants.

Georraphy, je-og'raff, n. the science of the earth's struc-Geomancy, je'on'onnest, n. divination by lines drawn on the earth.
    on the earth.

Geometry, je-oni/e-tri, n. the science of mensuration.

Geomomy, je-oni/o-tel, n. the science of the earth's physical laws.
       Geoponics, jé-o-pon'iks, n. the science of agriculture.
Georama, jé-o-ranya, n. a view of the carth's interior.
Georgian, jorj'i-an, adj. relating to the period of the
    Georgie, jorj'ik, adj. relating to rural matters. [heat, Geothermic, jë-n-ther'mik, adj. relating to the carta's Gerandum, jer-a'nl-um, n. a favourite bedding plant. Gerent, jeront, n. an office holder. Germ, jeron, n. a seed-bud; any rudmentary form. German, jer-man, n. a native of Gernany, adj. nearly Germane, jer-man'n, adj. relevant; akm.
                                                         eorges.
       Germane, jer-njän', adj. relevant; akin. [related.
Germinal, jer nim-al, n. the seventh month of the
calendar of the first French Revolution.
    Caemaar of the first resich Revolution.

Germinate, jerfund-it, v. to grow from a germ.

Gerund, jerfund, n. the part of a Latin verb repre-
Gestant, jest-tan, ad., laden. [senting a verbal noun.

Gestation, jes-ta'shun, n pregnancy.

Gestic, jest-tik, ad., relating to bodily motion.

Gesticulate, jest-tik', lating to bodily motion.

Gesticulate, jest-tik', n. expressive movement of the hind

Geworaw, nivaw, n. a showy trifle.

To body.
    Gesture, Jest'ur, n. expressive movement of the hand Gewgaw, gif yaw, n. a showy trifle. [or body, Geyger, gif yer, n. a hot spring, Ghastliness, gast'll-ness, n. pallor Ghaut, gawi, n. an Indian mountain pass or chain. Gherkin, ger'tim, n. a small pickled accumber. Gherkin, ger'tim, n. a small pickled accumber. Ghost, gost, n. a spirit; the soul. Ghout; good, n. a denion that devours the dead, Ghant, i'fair, n. a man of great bulk; one of great Giantiess, j'fant-es, n. a femile grant. [powers Glaour, jowr, n. a term applied by the Turks to a person not of their own relagion.
    person not of their own religion.

Gib, jib, n. arm of a crane.

Gibberish, gib'er-ish, n. unmeaning gabble.

Gibbet, jib'er, n. a gallows.

Gibbet, jib'er, n. a sneer; v. to sneer.

Giblets, jib'let, n. a sneer; v. to sneer.

Giblets, jib'let, n. eatable internal parts of fowls.

Giddy, grid', adi. unsteady; duzzy.

Gierangle, jer'e', n. a kind of eagle.

Gift, grid, n. present; natural talent.

Gift, grid, n. present; natural talent.

Gigantic, grid', n. to titter.

Gigantic, grid', n. to titter.

Gigd, jid, n. to cont with gold or gold-like substance.

Gidling, grid'ng, n. hat which is gilded; the trade of

Gilla, grid's n. a fish's breathing organs.

[gidding.

Gilla, grids, n. a fish's breathing organs.

[gidding.

Gillows, gim'es, n. a boring tool.
       Gilt, ad/, gilded.

Gimlet, gim'et, s. a boring tool.

Gimp, gimp, s. a kind of trauming.

Gin, jin, a distilled spirit; a certain class of driving

Ginger, jin'jer, s. a punyent Indian root. [machines.

Gingerbread, jin'jer-bred, s. affect bread flavoured

Gingerly, jin'jer-stl ad/, cautionsty.

Gingham, ging'has, s. a kind of cloth.

Gipsy, jip'st, s. a member of a nomadic tribe.

Girandole, jit'randol, s. a large-branchod dandlestick.

Gird, gerd, s. to bind; to encompass; to gibe.
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Girde, gerd'en, n, a supporting piece of timber or Girdie gerd'i, n, a belt for the waist. Giron. Girth, gerth, n, the belly-band of a saddle; measure & round the waist. Girt, jetth, n, the chief point; the main tendency, Gire, gir, v, to bestow; to provide, Gire, gir, v, to bestow; to provide, Gire, gir, v, to bestow; to provide, Gire, gir, gir brus, and, smooth; hairless; shiny, Giaciat, girl's-si, and, tey; forcen. Giaciat, girl's-si, and, icy; forcen. Giaciat, girl's-si, and, icy; forcen. Giaciat, girl's-si, and, icy; forcen. Giaciat, girl's-si, and populing in a wood. Giaciat, girl's-si, on, upon girl in a wood. Giadiate, girl's-si, on, so word-shaped. — [athlets. Giadiator, girl's-si'cor, n, asciently a professional Gialiator, girl's-si'cor, n, asciently a professional girl's-si'cor, n, fascination. [etc. Giance, girl, n, a studden look.
Glance, just, n. a sudden look.
Gland, gland, n. a secreting organ of the body.
Glanders, gland'ers, n. a contagious disease in a
hore's nose.
     Glandiferous, gland-ifer-us, ad/, acom or nut-bearing, Glandiferous, gland-ifer-us, ad/, acom or nut-bearing, Glandular, gland-ul-er, ad/, connected with glands. Glandule, gland-ul-er, a snell gland. Glare, glar, v. to shine with lustre; n. a lustrous light;
  Clare, glar, v. to stone with instre; n. a instrous light; a penetrating look.
Claring, glaring, adj. bright; notorious.
Glasa, glas, n. a combination of silica and an alkali.
Glauberite, glawber-it, n. a mineral found in rock Glaucous, glaw'kus, adj. sea-greef colour.
Glave, glay, n. a sword.
Glaze, glay, v. to cover with glass.
Glazler, glazi, v. to cover with glass.
Glazler, glazi, n. a, the set of covering with glass.
       Glazing, gliz'ng, n. the act of covering with glass;
a vitroous substance used for covering
       a vitroous substance used for covering, Gleam, glein, n, a beam of light; v. to glow, Glean, glein, v. to gather after reapers. Glebos, glebos
          Glen, glen, n. a narrow valley.
Glib, glib, adj. voluble.
     Gilde, glid, ad/, voluble.

Glide, glid, v to move smoothly.

Glimner, glin'er, v. to shine faintly.

Glimner, glin'er, v. to shine faintly.

Glimner, glinnps, n. a weak fiftil light; a passing view.

Glint, glint, v. to shine; n. a quick gleam.

Glisten, glis'n v. to shine or sparkle.

Glitter, glit's v. to shine or sparkle.

Glitter, glit's v. to look greedily or wickedly.

Gloaming, glo'ming, n twilight.

Gloat, glit', v. to look greedily or wickedly.

Globet, glo'bait, ad/, globe-like.

Globet, glo'bait, ad/, globe-like.

Globot, glo'bait, ad/, globe-like.

Globot, glo'bait, a sanal globe.

Gloomerate, glom'er-ât, v. to gather in ball-like form.

Gloom, n leaviners; semi-darkness.
             Gloom, gloom, n. heaviness; semi-darkness.
Glorfly, glo'r.-i., v. to exalt; to cover with glory.
Glory, glo'r., n. fame; renown; honour.
Gloss, glos, n. lustre.
          Gloss, glos, n. lustre.
Glossary, glos'er-1, n. a vocabulary of meanings.
Glossitis, glos-t'is, n. inflammation of the tongue.
Glossology, glos-0'e-1, n. science of language.
Glossy, glos'l, ad.; sunooth and shumg.
Glottal, glo'fa, ad.; relating to the tongue.
Glottis, glo'fa, n. the opening to the windpipe.
Glow, glo, v. to shine brightly; to be ardeat; s. warnith; ardour.
               Gloze, gloz. v. to wheedle; to flatter.
             Glucinum, gloo-si'num, n. a menal made from beryl, Glucinum, gloo-si'num, n. a menal made from beryl, Glucose, gloo'kös, n. syrup obtained from fruits, Glue, gloo, n. an adhesive substance obtained from builed skins, hoofs, etc.
          boiled skins, hoots, etc.
Glum, glum, ad/, gloomy; sullen.
Glume, gloom, n. calyx of certain grasses.
Glume, glumps, n. the sulks.
Glut, glut, v. to cloy; to saturate.
Gluten, gloo'ten, n the nutritive part of grain.
Glutlmate, gloo'th-3t, v. to stick together.
Glutlmate, gloo'th-3t, ad/, viscous; gluey.
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^{&#}x27; day; at; arm; fve; čik; there; ice; pin; machine: bold; pot; storm; mute; tub; burn.

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Glutton, giut'on, **. a greedy cater.
Gluttonous, giut'on-us, aa/. addicted to giutton;
Glycorine, glis'er-en, **. a neutral sticky liquid.
Glycorine, glis'er-en, **. a neutral sticky liquid.
Glycorine, glis'er-en, **. a nimal starch.
Glycol, gli'kol, **. a chemical compound.
Glyph, glil, **. a futted architectural channel.
Glyptides, glip'tiden, **. a nimal starch.
Glyptides, glip'tiden, **. a foreit armadillo.
Gnarl, narl, **. a knot in wood.
Gnarled, narlid, **. ad, knot y.
Gnash, nash, **. to grind the teeth together.
Gnathoric, **na small insect.
Gnathoric, narline, **ad, **fattering.
Gnaw, naw, **. to nibble into pieces; to bite.
Gnome, nom, **na goblin.
Gnome, nom, **na goblin.
Gnome, no'mon, **a goblin.
Gnome, no'mon, **a the pin of a dial.

[sententious.
Gnomon, no'mon, **, the pin of a dial.

[sententious.
Gnomon, **nom, **nom, **nom, **a sect combining the Christian
                                                                                                                                                                                                                                                                                                                                                                                                              Gossamer, gos'am-er, n. filmy cobweb,
Gossip, gos'ip, n. idle 'alk; a tattler.
Gothamite, go'/kam-it, n. a foolish fellow.
Gothic, gosh'ik, ad/. in architecture, the style of
high-pointed arches; romantic.
Gothicism, gosh'i-sim, n. Gothic style.
Gouda, gow'da, n. a kind of cheese.
Gouge, gowj, n. a scooping chisei; n. to force out.
Gourd, goord, n. a kind of melon.
Gousty, gows'ti, ad/. dreary.
                                                                                                                                                                                                                                                                                                                                                                                                                    Gousty, gows'ti, adj. dreary.
                                                                                                                                                                                                                                                                                                                                                                                                                    Gout, gowt, s. inflammation of the joints.
                                                                                                                                                                                                                                                                                                                                                                                                                Gout, gowt, M. inflammation of the joint; gowt, M. inflammation of the joint; Goutwed, gowt'wed, M. a plant used as a gout remedy, Governa, guv'ern. w. to rule; to direct.
Governance, guv'ernens, M. a female instructor.
Government, guv'ern-ment, M. the executive power; control; management.
Gown, M. a woman's garment; a barrister's robe.
                                                                                                                                                                                                                                                                                                                                                                                                                  Gownman, gown'man, s. a man entitled professionally
Gromon, no'mon, n. the pin of a dial.

Gromond, no'mon, n. the pin of a dial.

Gromondics, no-mon'its, n. the art of dial-making.

Growtics, nos'tiks, n. a sect combining the Christian with other philosophies.

Gru, nü, n. a kind of antelope.

Goad, göd, n. a rick.

Goal, göl, n. a nobjective: ending-place of a race.

Goat, göt, n. a ruminating animal.

Goates, göt-t. n. a ruminating animal.

Goates, göt-t. n. a tump; a mouthful.

Gobbet, göb'et, n. a tump; a mouthful.

Gobbet, göb'l, n. the mouth.

Gobbet, göb'l, n. to eat without mastication; to swallow Gobelin, göb'el, n. a lump; a mouthful.

Gobbet, göb'l, n. to eat without mastication; to swallow Gobelin, göb'el, n. a drinking cup.

Gobbet, göb'lin, n. a rick daw-ter, n. girl to without one stands in the relation of godfather.

Godd-aughter-q god'daw-ter, n. girl to without one stands in the relation of godfather.

Godd-aughter-q god'daw-ter, n. girl to without one Goddeas, god'es, n. a female god'

God-father, god'fa-ther, n. nule sponsor at baptism.

Godbed, god'lt, ad., pious.

Godsend, god'send, n. an unexpected timely gift.

Godsomith, god'smuth, n. an ilol maker.
                                                                                                                                                                                                                                                                                                                                                                                                                Grab, grab, v. to seize. [to wear a gown. Grabble, grab'l, v. to grope. 

Grabble, grab'l, v. to grope. 

Grace, gras, n. elegance; neatness; mercy; favour; Graceful, gras'ful, ad/. becoming; elegant.
                                                                                                                                                                                                                                                                                                                                                                                                              Graceful, grås ful, adf. becoming; elegant.

Graces, grås'es, n. the three Greek goddesses,
Euphroyne, Aglaia, and Thalia; refinements.

Gracile, gras'la, adf. sight; slender.

Gracilous, grå'shus, adf. merciful; benevolent.

Grade, gråd, n. degree of rank; class; the slope of a

Gradient, grå'dlent, n. an incline.

Gradual, gråd'us, adf. by degrees.

Graduate, grad'usl, v. to mark by degrees; one who
has graduated at a university.

Gradus, gråd'us, n. a dictionary of Latin or Greek

Graft, gråd'us, n. a dictionary of Latin or Greek

Graft, gråd'us, n. a polyty with another;
                                                                                                                                                                                                                                                                                                                                                                                                                  Graft, graft, v. to incorporate one plant with another;
n a young scion. [Christ at the Last Supper.
                                                                                                                                                                                                                                                                                                                                                                                                              Graft, graft, v. to incorporate one plant with another; n a young scion. (Christ at the Last Supper. Grail, grail, n. the legendary holy vessel used by Grain, grain, n. a head of cereal plant; cc Grained, grain, n. a head of cereal plant; cc Graining, grain, n. a plant graining. In wood. Graining, grain'ing, n. painting in initiation of the grain Grailing, grail'e, n. a class of wading birds. Graillatory, grail'4-to-ri, adj. relating to wading birds. Grailintorous, grain-in-vie-rus, adj. feeding on grass. Grammer, grainer, n. the science of correct speaking or writing.
     Godsmith, god'smith, n. an idol maker.
God-speed, god'spēd, n. a wish for a successful journey
Godwit, god'wit, n. a kind of snipe. [or undertaking.
                                                                                                                                                                                                                                                                                                                                                                                                                                          or writing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 enutting instrument
                                                                                                                                                                                                                                                                                                                                                                                                                  Gramophone, gram'o-fon, n. a sound-recording and Grampus, gram'pus, n. a fish of the dolphin species.
   Godwit, god'wit, n. a kind of snipe. [or undertaking. Goffer, gof er, n. to plait.
Goggle, gog'l, n. to roll the eys. a
Goggles, gog'l, n. eye-suel's.
Goglet, gog'let, n. a water cooler.
Gold, gold, n. a precious mineral; money.
Goldbeater, gold'be-ter, n. a maker of gold leaf.
Goliard, go'lyard, n. a monk-jester.
Goliath, gol'yard, n. a gamt.
Gomphosis, gom-fo'ss, n. synarthrosis of teeth and
Gondoller, gon-do-let', n. one who rows a gondola.
Gondoller, gon-do-let', n. one who rows a gondola.
Gonfalon, gon'falon, n. a standard with streamers.
Gong, gong, n. a kind of drum.
                                                                                                                                                                                                                                                                                                                                                                                                                Granary, gran'erd, n. storehouse for gram.
Grand, grand, ad. fine; large; superb; splendid.
Grandam, gran'dam, n. an old woman; a grand-
Grandee, gran-de', n. a Spanish noble. [mother.
                                                                                                                                                                                                                                                                                                                                                                                                                Grandeur, grand yer, n. splendour; vastness.
Grandiloquent, grand-li'o-kwent, at/t. bombastic.
Grandiose, grand-16-s, at/t. bombastic.
Grand-jury, grand-jū/ti, n. a first jury that decides
whether a case calls for trial or not.
                                                                                                                                                                                                                                                                                                                                                                                                                  Grange, granj, z. a farm-house.
Graniform, gran'i-form, adj. grain-shaped.
Gondolier, gon-do-lêr', n. one who rows a gondola. Gonfalon, gon'fa-lon, n. a standard with streamers. Gong, gong, n. a kind of druin. Gonlometer, gon-liou'e-ter, n. an instrument for measuring solid angles. Good, nd/, virtuous; honourable; sound. Good-breeding, good-bred'ing, n. polished manners. Goodliness, good'f.nes, n. kindliness. Goodliness, good'f.nes, n. kindliness. Goorkha, goor'ka, n. a native of Nepal. Goosander, goosander, n. a web-footed bird Gopher, go'fer, n. prairie dog; a kind of wood. Goreo, go nr kos, n. moor-len. Gordlan-knot, go'fd-an-not', n. an inextricable difficer, go'n, n. blood; a triangular piece of cloth, [culty. Gorge, gorj, n. a narrow passage; the throat. Gorgeon, gorj'e-us, nd', splendal. Gorgeon, gorj'e-us, nd', splendal.
                                                                                                                                                                                                                                                                                                                                                                                                          Granitorm, grant-torm, adj. grann-snaped.

Granite, grantit, n. as igneous rock of great hardness.

Granitic, gran-tik, adj. pertaining to granite.

Graniticm, gran-ti-from, adj. grante-like.

Granitorous, gran-ti-from, adj. grante-like.

Grant, grant, v. to give; to bestow; n. the thing

granted; deed of grant.

Granular, granti-fr. n. the person to whom a grant is

Granular, granti-fr. n. the person to whom a grant is

Granular, granti-fr. n. to break upper granules.
                                                                                                                                                                                                                                                                                                                                                                                                                  Granulate, gran'ū-lāt, v. to break into grains.
                                                                                                                                                                                                                                                                                                                                                                                                              Granule, gran'ul, n. a grain particle.
Granulous, gran'ul n. a grain particle.
Granulous, gran'ul n. a grain particle.
Grape, grap, n. the fruit of the vune; grapeshot.
Grape-shot, grap'shot, n. small shot that scatten when fired.
                                                                                                                                                                                                                                                                                                                                                                                                              when treu.

Grapestone, grāp'stön, n. the seed of the grape.
Graph, graf, n. picture in lines.
Graphic, grafik, nd/, well-drawn; vivid.
Graphis, grafik, n. a kind of lichen.
Graphite, grafic, n. a kind of lichen.
Graphite, grafic-lit, n. a kind of flate.
Graphite, grafic-lit, n. a kind of flate.
Graphic a consideration of flate.
                                                                                                                                                                                                                                                                                                                                                                                                              Grapnel, grap'nel, w. a small anchor. Grapple, grap'l, v. to seize. Grasp, gresp, v. to seize with the hand. Grasping, grasp'ing, adj. greedy.
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Grass, gras, n. green herbage. from her husband.
Grass-widow, gras wid-o, n. a wife temporarily parted
Grate, grat, n. bars forming place for fire; v. to rub
against; to make a harsh sound.
Grately, graviti, and some pace for mey by to the against; to make a harsh sound.

Grateful, gravitul, adj. giving pleasure; thankful.

Grateful, gravitul, adj. giving pleasure; thankful.

Grating, gravitul, and, the bars of a grate; adj. harsh.

Grating, gravitul, and, thenkfulnes.

Gratulude, gravitul, and, free.

Gratulude, gravitul, and, free.

Gratuluty, gravitul, and, resent.

Gravamen, grav-almen, an grievance; ground of Grave grav, adj. sober; serious; an spoot oburial.

Gravell, grav-el, adj. containing gravel. [kidneys.

Gravelly, grav-el, adj. containing gravel. [kidneys.

Gravely, grav-el, adj. containing gravel. [kidneys.

Gravely, grav-el, adj. containing gravel. [smell.

Gravely, grav-el, adj. containing gravel. [smell.

Gravitul, grav-el, adj. walking ponderously.

Gravitade, grav-id, adj. hary.

Gravitade, grav-id, adj. walking ponderously.

Gravitade, grav-id, adj. and towards a centre of gravitul, a. a force which attracts weight;
attraction.

Gravity, gravits, n. a force which attracts weight; Gravity, gravits, n. a force which attracts weight; Gravy, gravits, n. juice from meat.

Gravy-boat, gravit-bot, n. vessel for holding gravy.

Gray, gra, white nirsed with black.

Graybeard, graviberd, n. a greybearded old man.

Grayling, graviberd, n. a greybearded old man.

Grazier, grazier, n. one who pastures cattle.

Grazing, grazier, n. one who pastures cattle.

Grazing, grazier, n. the act of feeding on grass.

Grease, gres, n. animal fat.

Greavy, gres, n. add, covered with grease.

Great, grat, add, large; famed: mighty.

Grebe, greb, n. a water bird.

Gree, greb, n. degree.

Greed, gred, n. stong desire; covetousness.
Gree, gree, n. degree.

Greed, greed, n. strong desire; covetousness.

Greed, greed, n. strong desire; covetousness.

Green, green, and grass-coloured; new; verdant; inexperienced.

Greenselly, gren/bak, n. name given to paper money

Greensery, gren/e-1, n. a kind of plum.

Greenhorn, gren/e-1, n. a kind of plum.

Greenhorn, gren/e-1, n. a kind of plum.

Greenhorn, gren/horn, n. a raw youth.

Greenhore, grein/horn, n. a raw youth.

Greeting, grein/grien, n. a welcome.

Gregarious, gre-gri-na, n. a, in woving in flocks.

Gregorian, gre-gri-na, adj. in the manner of the

chants introduced by Pope Gregory.

Gremial, gre'mi-d. n. cloth wom across the knee

by bishops at ordinations.

Grenade, gre-naid, n. a small explosive shell.
Grenade, gre-nid', n. a. small explosive shell.
Grenadier, gren-1-dër', n. a. soldier of the foot-guards;
formerly a soldier who threw grenades.
Grenadine, gren-a-dën', n. a kind of silky dress fabric.
Greyhound, gril'nownd, n. a hunting dog.
Griddle, grid', n. a. pan for baking cakes.
Gridelin, grid'-lin, n. a violet grey colour.
Gridivan, grid'-en. n. a. hand-grate for broiling
Gridelin, grid'e-lin, n. a violet grey colour.
Gridiron, grid'l-ern, n. a hand-grate for broiling
Grief, gref, n. sorrow; regret.
Grievance, grev'ans, n. a burden; cause for grief;
Grievous, gre'vus, ad; painful.
Griffin, grif'in, n. a fabulous creature.
Grig, grig, n. a sand-eel.
Grill, gril, n. a large fixed gridiron; v. to broil.
Grillse, grils, n. a young salmon.
Grim, grim, adj. forbidding; stern.
Grimace, grim-ās', n. contortion of the face.
    Grimace, grim-as', s. contortion of the face.
Grimalkin, grim-al'kin, s. a cat.
Grime, grim, s. dirt deep-seated.
  Grime, grim, s. dirt deep-seated.
Grimy, grim, ast, dirty; sooty.
Grin, grim, s. to smile with the teeth together.
Grind, grind, v. to crush to powder; to rub together.
Grindstone, grind'stôn, s. a stone of which tools are
Grip, grip, v. to hold fifthy; v. a. small trench. [ground.
Gripe, grip, v. to sleate; s. a pain in the bowels.
Grisette, grize-t', s. a. gay young French workwoman.
Griskin, grig'kin, s. a. ply's spine.
Griskin, grig'kin, s. a. ply's spine.
Grisky, gris'll, ast', frightful.
Grisk, s. com for grinding.
                       dấy; ặt; ârm; ēve: čik; thére; 🍇; pǐn; machine; böld; pột; stôrm; mūte; tub; bûra
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Gristle, gris'l, **. cartilage.
Gristly, gris'll, **. cartilage.
Gristly, gris'll, **. carse part of meal; sandstone; firmness.
Gristly, gris'l, **. carse part of meal; sandstone; firmness.
Gristle, gris'l, **. agrey colour.
Grizzle, gris'l, **. agrey colour.
Groat, groin, **. to moan.
Groat, groin, **. to moan.
Groat, groin, **. an old coin worth 4d.
Groat's groin, **. an old coin worth 4d.
Groat's groin, **. an old coin worth 4d.
          Groats, grots, n. grain of oats.
  Groats, gröts, M. grain of oats.
Grocer, grösen, M. a dealer in various food provisions.
Grog, grog, M. spirits and water.
Grog-blossom, grog blgs-om, M. redness of nose.
Grogram, grog ram, M. a coarse cloth.
Groin, groin, M. the part of the body between the
belly and the thigh.
Groine, groind, ad. having arched intersections.
Groom, groom, M. one who tends horses.
Groom, groom, M. one who tends horses.
Groommann, groom, "M. one who attends a
bridegroom at his wedding.
  bridegroom at his wedding.

Groove, groov, n. a furrow.

Grope, groov, n. a furrow.

Grope, groov, n. a furrow.

Gross, grös, adj. coarse; rough; n. in bulk, 12 dozea.

Grotesque, grot-tesk', adj. fantastic.

Grotto, groi'o, n. a cool cavern.

Groundage, grownd'ij, n. charge for space occupied

Ground-plot, grownd'iplot, n. a site. [hy ship => port.

Ground-tent, grownd rent, n. rent received for ground.

Ground-tent, grownd rent, n. rent received for ground.

Ground-work, grownd werk, n. foundation; basis.

Group, groop, n. persons or things collected togethes.

Grouping, groop'ing, n. the act of arranging groups.

Grouse, grows, n. moor-fowl.
Grouse, grows, n. moor-fowl.
Grout, growt, n. coarse meal; lees; plaster.
Grove, grow, n. a small wood.
Grovel, grow'e, n. a small wood.
Grovel, grow'e, v. to crawl; to fawn.
Growell, grow'e, v. to curawl; to fawn.
Growl, grow, v. to murnur angrily.
Growth, growl, v. to murnur angrily.
Growth, growl, v. to murnur angrily.
Growth, growl, v. to winnur angrily.
Growth, growl, v. development; a growing.
Grub, grub, n. krave of meets; v. to dig.
Grubber, grub'er, n. one who grubs; an agricultural implement.
Grub, grup, n. secret hatred; v. to regard with Gruel, groo'el, n. meal boiled in water.
Gruesome, grow'sum, ade ghastly; grim.
       Grouse, grows, n. moor-fowl.
  Gruef, groo'el, n. meal builed in water.

Gruesome, groo'sun, ad, ghastly; grim.

Gruff, gruf, ad/, abrupt; stem.

Grum, grun, ad/, mear,

Grumble, grum'bl, c. to express dissatisfaction.

Grumne, groom, n. aclot.

Grumnous, groo'mus, ad/, thick; clotted.

Grumpy, grumpt, ad/, mean; surly.

Grunt, grunt, v. to nake a guttural sound; such a Guano, groo-a'no, n. dung of sea-birds.

Guarantee, gar-antef', n. a warant of surery; v. te undertake for another.

Guard, grd, v. to watch or protect; n. man, men, ow
  undertake for another. [other guarding power Guard, gard, v. to watch or protect; n. man, men, or Guardage, gard'āļ, n. wardship. Guardant, gārd'ant, ad, v. with face to the onlooker. Guardian, gārd'an, n. one who guards or protects. Gubernatorial, gū-ber-nā-tō'ri-al, ad, pertaining to Gudgeon, gud'jun, n. a river fish. [rule Guerdon, ger'don, n. a reward. Guerlila, ger'ld, n. irregular warfare. Guesag, ges. v. to conjecture.
  Guerilla, ger.li'd, n. irregular warfare.
Guess, ges. v. to conjecture.
Guess, ges. v. to lead; to direct.
Guida, gid, v. to lead; cuming.
Guileali, giftul, ad; crafty.
Guileali, giftul, ad; crafty.
Guileali, gift, v. crime; wickedness.
[a crima.
Guilty, gil-l., ad; wicked i criminal; responsible for Guise, gir., v. manner; dress.
Guise, gir., v. manner; dress.
Guise, gir., v. manner; dress.
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Gulch, gulsh, s. a ravine. [coast line; a.1 abyss. Gulf, gulf, s. an arm of sea breaking away .rom the Gull, gul, s. a sea fowl; s. to december. Gullet, gulfet, s. the throat passage. Gullibility, gulf.-ipilit. s. trickery. Gully, gulf. s. a ravine. Gulp, gulp, v. to swallow quickly without masticating. Gum, gum, *. an adhesive substance; the fieshy part enclosing the teeth. enclosing the teeth.

Gumption, gump'shun, s., sagacity.

Gun, gun, s. a fire-arm; a cannon.

Gunner, gun'er, s. a soldier who works a cannon.

Gunner, gun'er, s. the science of artillery.

Gunny, gun's, s. a kind of sacking. [barrel resta.

Gunstock, gun'stok, s. the part of a gun on which the

Gunwale, gun'wil, s., the upper edge of a ship's side.

Gurgard, gun'mal, s., a kind of fish.

Gurry, gur'l, s. ofal of fish.

Gurry, gur'l, s. ofal of fish.

Gush, gush, w, to flow coolously: s. effusive sentiment. Gunty, guri, n. ona on na.

Gunh, gush, n. to flow coplously; n. effusive sentiment,

Gunsett, gus'et, n. an angular piece let into a garment.

Gust, gust, n. a sudden rush of wind; relish.

Gustatory, gust'a-to-ri, adi, pertaining to the taste.

Gusto, gust'o, n. enthusiasm; reliable.

Gusto, gust'o, n. enthusiasm; reliable.

Gusty, gust'i, adj. fitful; storny.

Gut, gut, n. the alimentary canal.

Gutta-percha, gut'a-perch'a, n. the solidified juice of

Gutterf. gut'er, n. channel for carrying of water. Gutta-mercha, gut'a-perch'a, n. the solidified juice of Gutter, gut'er, n., channel for carrying of water. Guttural, gut'er-ki, adi, formed in the throat. Guy, gi, n. a steadying rope; an outlandish figure. Guzzle, guz', n. to drink greedily. Gymnasium, jim-na'zl-uni, n. place for athletic exercise. Gymnastica, jim-nast its, n. athletics. Gymnastica, jim-nast its, n. athletics. Gynarchy, jim'arkl, n. government by a woman. Gyp, jip, n. a. Cambridge college servant. Gypseum, jip'sum, n. sulphateof hine. Gyratchy, ji-ra'to-ri, adi, moving in a circle. Gyratchy, ji-ra'to-ri, adi, moving in a circle. Gyration, ji-ra'shin, n. whirling round. Gyre, jir, n. a circular motion. Gyre, jir, n. a circular motion.

Gyroscope, ji'ro-skōp, n. an ustrument for testing

Gyves, jivs, n. fetters. [rotary movements.]

Habeas Corpus, ha'be-as cor'pus, n. writ to produce a prisoner and specify reasons for his detention.

Haberdasher, hab'er-dash-er, n. a seller of drapery smallwares. preasi Mahurares.

Habergeon, hab-er'je-on, n. armour for the neck and Habiliment, hab-il'I-ment, n. a garment; titruc, Habit, hab'it, n. custom; appearance; dress.

Habitathe, hab'it-abi, adj. that may be hved in.

Habitat, hab-it-abi, n. natural abode.

Habitation, hab-it-3'shun, n. a dwelling; act of Habitual, hab-it'-al, adj. customary.

Habitual hab-bit'-abi, n. to accustom. Habitual, ha-bit'ū-al, ady. customary.

Habituate, ha-bit'ū-al, v to accustom.

Hack, hak, v. to cut; n. a horse kept for hire; a literary.

Hacking, hak'ng, adv. short and broken, as a cough.

Hackile, hak'l, v. to separate.

Hackiler, hak'ler, n. a flax-dresser.

Hackney, hak'ni, n. a hack; v. to make common.

Hadock, hak'nid, ady. much-used; let for hire.

Hados, hā'dōs, n. hall.

Had, haft, n. a handle.

Hag, har, n. an use'v old woman. Haft, hat, n. a handle
Hag, hag, n. a nugly old woman.
Haggard, hag'erd, ad, lean; wild-looking.
Haggis, hag'erd, ad, lean; wild-looking.
Haggis, hag's, n. a Scotch stew.
Haggis, hag', n. to cavil; to mangle
Haglography, hag-log'ra-fe, n. the last of the three
lewish divisions of the Old Testament.
Hagiology, hag-log'o-ji, n. lives of saints.
Hall, hall, v. to greet; frozen rain.
Halr, har, n. animal filament; the mass of hairs on the
Hake, hak, n. a gadoid fish.
Halberd, ha'berd, n. a pole-axe.
Haleyon, hat's-on, ad/, happy; calm; n. the kingHale, hal, ad/, hearty; robust; v. to drag,
fisher.
Half, har, n. one of two equal parts.

Half-blood, haf-blud, n. relation only by one parent. Half-bred, haf-bred, sdf; underbred. Half-caste, haf-kast, n. one having one parent a Half-caste and the other a European; any half-breed. Half-caste, haf-kast, n. one having one parent a Half-caste, haf-kast, n. one having one parent a Half-caste, haf-kast, n. one having one parent a Half-caste, haf-cast, n. a conficer's reduced p y. Halibut, haf-low, n. a large flat sea-fish. Halloor, haf-t-kon, n. holiness; an Old English oath. Hallout, hal-low, n. a dugong. Halidom, half-low ya, n. praise to God. Halidom, half-low ya, n. praise to God. Halidon, half-low ya, n. praise to God. Halidon, half-you, n. a lary person. Hallo, hall-low, n. a vry to draw attention; a hunting Haliow, half-o, n. a cry to draw attention; a hunting Halidow, half-o, n. a cry to draw attention. Halidon, half-low, n. a lary person. Halidon, half-o, n. a cry to draw attention; a hunting Halidow, half-o, n. a tuninous circle. Hall, hawli, n. a luminous circle. Halt, hawlt, v. to stop; n. the lame. Halter, hawlter, n. head-rope, for horse; hangman's Halting, hawlting, ad; holding back. [rope. Halter, hawlter, n. head-rope, for horse; hangman's Halting, hawlting, ad; holding back. [rope. Halve, hav, v. to divide into two equal parts, Halyard, hal'yard, n. rope for holsing balls. Ham, n. back of the thigh; a cured pag's thigh. Hammer, ham'er, n. a son'd horse-collar, Hamlet, ham'b, n. to mutilate. Hammer, ham'er, n. a sumi village. Hammer, ham'er, n. a swinging resting place. Hammer, ham'er, n. a swinging resting place. Hammer, ham'er, n. a swinging resting place. Hamper, ham'er, n. a large basket; v. to obstruct; Hamper, ham'er, n. a swinging resting place. Hamper, ham'er, n. a swinging resting place. Hamper, ham'er, n. a swinging resting place. Hamper, ham'er, n. a large basket; v. to obstruct; Hamper, ham'er, n. a swinging resting place. Hamper, ham'er, n. a swinging re Hand, hand, w. to snap at. papers, reasure, otc.

Hand, hand, w. the extremity of the arm below the
wrist; a worker; w. to give to.

Handcaff, hand'kaf, w. handle; grip; a betrothal,
Hand-gallop, hand-gal'up, w. an eavy gallop,
Handicap, hand'rkap, w. to place at a disadvantage;
to equalise by burdcuing what supernor.

Handicarft, hand'rkart, w. tabour by hand.

Handiwork, hand'rkerki, w. work done by the hands.

Handiceraft, hand'rkerchif, w. cloth used for wiping
Handie, hand'nad, w. a female sorvant.

Handsome, han'sum, adv. attractive; good-looking.

Handy, hand', adv. ready; dexterous; near.

Hang, hang, v. to suspend.

Hangar, hang'ar, w. covered shed for vehicles. Hangar, hang'ar, n. covered shed for vehicles.

Hangar-on, hang'ar-on, n. one who holds on; a
dependent. [beds, walls, etc. dependent.

Hangings, hang'ings, n. hanging drapery to windows,

Hangman, hang'nan, n. public executioner.

Hank, hangk, n. two or more skeins of thread tied

Hanker, hangk'er, v. to desire cagerly. [together.

Hanky-panky, hangk'f-pangk'f, n. jugglery.

Hansom, han'sard. n. official Parliamentary reports.

Hansom, han'sard. n. official Parliamentary reports.

Hansom, han'sard. n. et wo-wheeled cab. Hausom, hartsom, n a two-wieeled cab. Hap, hap, n, chance; hazard. Haphazard, hap-haz'erd, n, mere chance. Haples, hap'le, adv. uhucky. Haply, hap'l, adv. by chanco. Happy, hap'l, adv. by chanco. Happy, hap'l, adv. n a pompous speech. Harangue, harang', n a pompous speech. Harbager, hår burjer, n. a forerunner. Harbour, hår bur, n. shelter for ships. Harbourer, hår burer, n. one who harbours. Hard, pård, firm; solid; severe. Hard, hard, adi, firm; solid; severe.
Harden, hard'en, »to make hard.
Hardinood, hard'i-hood, ». strength; power of endurHardinoes, hard'i-hess, ». boldness; assurance;
capability of resistance to segently.
Hardly, hard'i, adv. scarcely; harshly.
Hards, hard, ». coarse fax.
Hardsalp, hard'ship, ». severe toll; want.
Hardsalp, hard'ship, ». severe toll; want.
Hard-vizaged, hard'wirājd, adj. of severe counsenHard-wiraged, hard'wār, ». iron wares.

dāy; ăt; ârm; ēve; ĕlk; thêre; īce; pīn; machine; bold; pot; stôrm; mute; tub; bûrh.

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Hardy, hârd'l, adf, strong; resoluta.

Hars, hâr, n. a wild animal having a divided upper lip.

Harebrained, hâr brând, adf, reciseus.

Harelip, hâr lip, n. a divided upper lip.

Harem, dâr em, n. part of house allotted to women in

Easterg countries.

Harloot, lâr'l-kô, n. a stew of mutton and vegetables;

Harl, hâr'l, n. the skin of fax. [a kidney bean.

Harloutin, hâr'le-kwin, n. a character in a pantomime.

Harm, hârm, n. injury.

"monicon, hâr-mon'ik-on, n. a mouth organ.

Harmonics, hâr-mon'ik-on, n. a mouth organ.

Harmonics, hâr-mon'ik-on, n. in concord.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hazy, hā'zi, adj. foggy; misty.
Head, åed, n. the top or front part of an animal's body.
Headacâe, hed'āk, n. pain in the head.
Headhand, hed'band, n. a fillet.
Headhand, hed'band, n. a point of land jutting into
Headlight, hed'lit, n. light carried in front of a ship.
Headlong, hed'long, any. rashly; madly.
Headquartera, hel-kwawrt'ers, n. the quarters of a
commanding officer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Headquarters, hed-kwawri'ers, n. the quarters of a commanding officer. Headsman, heds'man, n. a public official who beheads. Headstall, hed'stawn, n. part of a bridle, Headstrong, hed'strong, adi, self-willed; impetuous. Headway, hed'n, n. a ship's progress. Headw, hed'n, adi, rash; headstrong. Heal, heli, n. to cure; to repair; to subdue. Healler, hel'er, n. one who heals; a doctor. Healthful, helin', n. freedom from disease. Healthful, helin', n. freedom from disease.
      Harmonious, hār-mo'nī-us, adj. in concord.
Harmonise, hār'mon-iz, v. to make harmonious.
Harmonist, hār'mon-ist, s. one skilled in harmony.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Heal, liel, v. to cure; to repair; to subdue.
Healer, hēl'er, v. one who heals; a doctor.

Health, hell's, n. freedom from disease.
Healthful, hell'ful, ad; in a healthy condition.
Heap, hey, n. a pile; a mass; v. to amass; to make into a heap.
Hear, he'r, v. to perceive by the ear; to comprehend; Hearken, hārk'en, v. to listen.
Hearse, hêr's, ad; common rumour.
Hearse, hêr's, ad; common rumour.
Hearse, hêr's, ad; common rumour.
Hearse, hêr's, w. conveyance for carrying coffins at Heart, hat, m. the organ that curvalates the blood; courage; affection.
Hearthum, hār'bern, w. an acid rising at the stomach.
Hearthen, hār'den, to stimulate.
Hearth, hār'den, to stimulate.
Hearth, hār'den, to stimulate.
Hearth, hār'den, ad; devod of feeling or courage.
Hearthy, hār'den, ad; warm; generous; healthy.
Hearthy, hār'den, ad; warm; generous; healthy.
Hearthy, hār'den, ad; warm; generous; healthy.
Heat, hêt, m. har which gives warmth.
Heath, hêt/e, n. barren land; moor.
Heathen, hêth'en, n. a pagan.
Heathendam, heth'en-dom, n. countries where 'heathen, hêth'en, n. a pagan.
Heathendam, heth'en-dom, n. countries where 'heathen, hêth'en, n. a pagan.
Heathendam, heth'en dom, n. countries where 'heathen, hêth'en, n. a pagan.
Heathen, he'er, n. on who lifts or heaves.
Heaven, he'er, n. a weight.
Hebetale, he'e-tid, n. the act of making blunt.
Hebetale, he'e-tid, n. to comb.

[great service.
Hebetale, he'e-tid, n. the act of making blunt.
Hebrale, he'er, n. a bushy thicket, a fence.
Hellen, he'er, n. a bushy thicket, a fence.
Hellen, he
   Harmonist, har mon-ist, s. one skilled in harmony. 
Harmonium, hār-mö'nl-um, s. a boxed-keyed and 
treadled reed instrument of music. [agreement. 
Harmony, hār'mon-i, s. a actord of sounds; fitness; 
Harness, hār'ness, s. a horse's equipment. 
Harp, hārp, s. a stringed musical instrument; v. to 
dwell insistently off anything.
Harp, harp, n. a stringed musical instrument; v. to dwell insistently of anything.

Harper, harp'er, n. a harp player.

Harpoen, harpoen, n. a dart to use against whales.

Harpeichord, harp'sl-kord, n. an ancient keyed instru-

Harridan, harl'dan, n. a hag.

Harridan, harl'dan, n. a hag.

Harritar, harl'dan, n. one educated at Harrow.

Harrown, har-o'l-an, s. of the marken of breaking

Harrow, har'o, n. a toothed instrument for breaking

Harrow, har'o, n. a toothed instrument for breaking

Harrow, har'o, n. a toothed instrument.

Harrum, har', v. to harass; to plunder.

Harsh, hart, n. a full-grown sing.

Harther, hart was deligible in the copy of the crops gathered.

Harwest, hart was mince; to hack.

Hashet, hast, v. to mince; to hack.

Hashet, hast, v. to mince; to hack.

Hashet, hast, n. a castable entrails.

Hasp, hasp, n. a claspy.

Hassock, has'sok, n. a foot cushion, a kneeling mat.

Hastate, hast'at, ad, spear-shaped.

Haste, hast, n. a head covering.

Hatchery, hard'er, n. alor of the brown.
   Hasse, hass, M. speed; nurry.

Hat, iat, m. a head covering.

Hatch, hach, v. to produce from eggs; to shade.

Hatchery, hach'er-f. m. place for hatching.

Hatchet, hach'er, m. place for hatching.

Hatchway, hach'wā, m. no pening in a ship's deck.

Hatch hāt, m. dislike; v. to dislike; to despise.

Haterl, hāt'ful, adi, odious; detextable.

Hatterd, hāt'ful, adi, odious; detextable.

Hatterd, hāt'red, m. extreme di-like.

Hatterd, haw'rer, m. ah ta maker.

Hauberk, haw'der, m. at unic worn by the Norman

Haughty, haw'd, adi, proud; arrogant. [soldiers

Hauler, haw'der, m. one who hauls.

Hauler, haw'er, m. one who hauls.

Haulin, hawne, m. stubble; straw.

Haunch, hawne, m. stubble; straw.

Haunch, hawne, m. to frequent; to visit.

Haunted, hawne, m. to frequent; to visit.

Haunted, hawne, m. to frequent; to visit.

Haunted, hawne, m. to frequent; to visit.

Hautted, hawne, m. to frequent;

Hauttoy, hô'bo, m. a reed instrument. [visitant.

Hauteur, hō'cer, m. pride; an arrogant manner.

Havana, hav'en, m. a shelter for ships.

Havenanck, haw'en, m. a shelter for ships.

Havenanck, haw'en, m. a speciant of Indian troops.

Havoc, hav'en, m. a speciant of Indian troops.

Havoc, hav'en, m. ageneral waste; slaugiter. [speech.
             Havoc, hav'ok, n. general waste; slaughter, [speech, Haw, haw, n. the seed-ressel of the thorn; hesitant Hawk, hawk, n. a bird of prey; v. to go about with
          Roads or sale.

Roads for sale.

Roads for sale.

Roads for sale.

Hawk-eyed, hawk'id, ad/. with hawk-like eyes.

Hawk-eyed, hawk'id, ad/. with hawk-like eyes.

Hawke, hawk, m, the position of a ship's cables; the

holes for the cables.
          holes for the cadies.

Hawser, haw'er, n. a large rope.

Hawthorn, haw'thorn, n. a hedge styub.

Hay, há, n. dried grass.

Hazard, haz'aid, n. chance; danger.

Hazardous, haz'er-dus, ad', dangerous.

Hazardous, haz'er-dus, ad', dangerous.

Hazardous, z. light mist; obscuring nuts.
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PEARS' CYCLOPAEDIA.

Helical, hel'Ik-al, adj. spiral.
Helical, hel'Ik-al, adj. spiral.
Helicyraph, he'It-o-graf, v. to communicate by heliostat or other sun reflector.
Heliolatry, he'Ii-o'l'atri, n. sun worship.
Helicath, he'Iik-stat, n. a reflecting instrument.
Heilx, he'Iiks, n. a spiral.
Hell, n. abode of evil spirits; place of torment.
Hellenset, he'le-böx, n. a plant whose root is a purgative.
Hellenist, he'Iid-stat, n. one learned in Greek; a Jew Helm, helm, n. steering apparatus of a ship.
Helmist, he'Iid-stat, n. one learned in Greek; a Jew Helm, helm, n. steering apparatus of a ship.
Helmisthology, hel-min-shol'o-ji, n. the study of Helot, he'lot, n. a Spartan slave.
Helynehp, v. to adi; to assist; n. provision.
Helpmeet, hely mett, n. a consort or companion.
Helynehely, n. the handle of an axe.
Helvetic, hel-vet'ik, adj. pertaming to Switzerland
Hem, hen, v. the stitched or woven border of a garment; n. a short cough.
Hemal, he'mal, adj. connected with the blood.
Hematology, he'mal-ol'o-ji, n. science of the bood.
Hematology, he'mal-ol'o-ji, n. science of the bood.
Hemistich, hem'-fsik, n. an incomplete line of verse.
Hempineng, n. p plant used for cordage making.
Hen, hen, n. femile fowl or burd.
Henbane, hen'ban, n. a spoisonous plant.
Hencotman, henst'man, n. a servant.
Henpacke, hen'or-id, n. dir. verse for poultry,
Henna, hen's, n. an Oriental dye pigment.
Henpacke, hen's'n, n. a woman who tends poultry,
Henna, hen's, n. an oriental dye pigment.
Hepsacke, hen'ye't, n. an a servant.
Hepsacke, hen'ye't, n. an oriental dye pigment.
Hepsacke, hen'se't, n. an oriental dye pigment.
Hepsacke, hen'ye't, n. an oriental dye pigment.
Hepsacke, hen'ye't, n. an oriental dye pigment.
Hepsacke, hen'ye't, n. an oriental dye pigment.
Hepsacke, hen'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Herpetology, her-pet-ol'o-jl, n. the natural history of Herse, hers, n. a portculis.

Hesitancy, her'-tah-si, n. wavering.
Hesitate, her'i-tah-si, n. western.
Hesperian, hes-per'-tan, adi, heretical.
Heterodox, het'-o-ro-doks, n. di, heretical.
Heterogeneous, het-er-ol-jen'e-si, n. spontaneous Heven, hu. v. to cut vigurously.
Hexagon, heks'a-gon, n. a figure of six equal sides.
Hexahedron, heks-a-he'dron, n. a cube.
Hexametr, heks-a-m'e-ten, n. a cube.
Hexametr, heks-a-m'e-ten, n. a cube.
Hexametr, heks-a-m'e-ten, n. a verse of six metrical feet.
Hexapla, heks'a-pla, n. a six-versioned edition of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hexapia, heks'a-pia, n. a six-versioned edition of the Hexapia, heks'a-pia, n. a six-footed animal. Hexastyle, heks'a-stil, n. a structure with six pillars. Hiatus, hi-â'tus, n. a gap; an opening. Hibernal, hi-bernal, adj. wintry. Hibernate, hi'-bernal, adj. wintry. Hibernate, hi'-bernal, n. to pass the winter in torpor. Hibernate, hi'-bernal, adj. relating to Ireland; n. an Irishman.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hiccough, hik'up, n. a spasmodic cough.
Hickory, hik'ori, n. an American nut-bearing tree.
Hidalgo, hidal'go, n. a Spanish nobleman.
Hidden, hid'n, adi', concealed.

1v. to conce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hidden, hid'n, adi concealed. [v. to conceal. Hide, hid, n. the skin of a beast; an old land measure; Hidebound, hid bownd, adi, having the skin or outer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hidebound, hid bownd, ad./ having the skin or outer covering too closely attached.

Hideous, hid e.us, ad/ frightful.

Hiding, hiding, n. a thrashing: concealment Hidrotle, hidrovik, ad, sudorine.

Hie, hi, v. to proteed, to wend.

Hierarch, hi'er-ark, n. the chief of a sacred order Hierarchy, hi'er-ark, n. the chief of a sacred order Hierarchy, hi'er-ark, n. the chief of a sacred order Hierarchy, hi'er-ark, n. ancient writing in pia tures and symbols

Hierology, hi-er-of-orightk, n. ancient writing in pia tures and symbols

Higholiar, hi'ae' vol. or the chief altar in a church, High-hier, hi'dler, n. a high-dying burd; an extrawilling hierology, hi-er, n. a high-dying burd; an extrawilling hieronessure in hipreshift, n. steam pressure in excess of the distance hid at attoocher.

High-pressure hipreshift hierond.

High-pressure hipreshift hierond.

High-pressure hipreshift for hid hipshift.
            a seven-stringed instrument,
Heptade, hep'tad, s. number or total of seven.
Heptagon, hep'ta-gon, n. a figure of seven equal sides.
Heptarchy, hep'tar-kl, s. government by seven rulers.
         Heptarchy, hep'tar-ki, n. government by seven rulers. Herald, her'ald, n. a forerunner; v. to proclaim. Heraldic, her-al'dik, adj. pertaining to heraldry. Heraldry, her'aldrid, n. the science of heraldic matters. Herb, herb, n. a plant whose stem dies every year. Herbaceous, herb'silsus, adj. pertaining to herbs. Herbage, herb'ij, n. pasture. Herbage, herb'ij, n. pasture. Herbarlium, herb-à'ri-um, n. a collection of plants. Herbarlium, herb-à'ri-um, n. a collection of plants. Herbirorous, herb'if er-us, adj. herb-feeding. Herbirorous, herb-ir'er-us, adj. herb-feeding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Highway, in we. 7: a punton total
Highwayman, hi way-inan, n a robber who stops
people on the highways
Hilarious, hilarita, azi, boisterously mirthful.
Hilarity, hilarita, n galety i mirth.
Hil, hil, n an elevation of ground of lesser altitude
                Herborise, herb'o-riz, v. to botanise.
              Herculean, her-ku'li-an, ad). difficult: very strong;
Herd, n. a collection of beasts; a flock; v. to run in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             than a mountam.
Hillmen, hi/men, n dwellers in hill-country.
Hillock, hi/ok, n. a swall hill.
Hith, hilt, n. a sword handle
Hind, hind, n. a female deer; a farm servant.
Hilders, hind'er, v to obstruct; to prevent.
Hinders, hind'most, adv, the farthest in the rear.
Hindu, hin'doo, a native of Hindostan.
Hinge, hiny, n. a joint on which a door turns; v. to
Hinny, hin't, v. to neigh.
Hint, hint, n. an insiliantion; v. to suggest indirectly.
Hip, hip, n the haunch; the fruit of the brier.
Hippocentaur, hip'o-sent'aur, n. Centaur (horse and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 than a mountain.
                                           company.
              Herdsman, herds'man, n. one who tends cattle.
Hereditament, her-e-dit'a-ment, n. unheritable pro-
            Heredity, her-ed't-4-ri, ad/ descending by inherital-theredity, her-ed't-4-ri, ad/ descending by inherital-theredity, her-ed't-4, n. transmission of ancestral qualities.
            qualities,
Heresiarch, her-es'i-ark, n a leader in heresy.
Heresy, her'es-i, n unsound doctrine.
Heretic, her'e-tik, n, an unbelieve.
Heretical, her-et'ik-al, ad/, relating to heresy.
Heritable, her'i-tik-al/, ad/, capable of being inherited.
Heritage, her'i-tik, ad/, capable of being inherited.
Heritage, her'i-tik, n, an inheritance.
Hermaphrodite, her-mafro-dit, n, an animal or plant
combining the male and female sexual character-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rilp, nip, n the haunch; the truit of the brier. Hippocentaur, hip'o-sent'aur, n. Centaur (horse and Hippodrome, hip'o-drom, n. a circus. [man, Hippophagy, hip-poff-ji, n. the practice of eating Hippophile, hip'o-l'il, n. a lover of horses. (horsefiesh, hippophile, hip'o-l'il, n. a lover of horses. (horsefiesh, Hippopot amus, hip-popt'a-mus, n. African river horse, Hippus, hip'us, n. a morbid trembling of the eyes. Hip-toof, hip roof, n. a roof with angle.

Hip-toof, hip'shot, n. a duslocated hip.

Hips. hir, v. no engage help for pay.
combining the male and female sexual characteristics.

Scriptural interpretation.
Hermeneutics, hermen-l'tiks, n. the genence of Hermetically, hermerik-al-l, adv. perfecty closed.
Hermit, hermit, n. one who lives in solitude.
Hermitage, her'mit-li, n. a hermit's abode.
Hermia, her'nl-a, n. rupture.
Hero, her'no, n. one who does notable deeds.
Herole, her-l'sin, adl, valorous; daring.
Herole, her'o-in, n. a female hero.
Heroism, her'o-izm, n. bravery.
Heron, her'on, n. a large water-fowl.
Herpes, her'pez, n. certain skin diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hipshot, nip shot, n. a dislocated nip. Hire, hir, v. to engage help for pay. Hirelding, hir ling, n. a servant. Hirre, hir for, n. pae who hires. Hirrient, hir l-aft, n. trilling sound. Hirsute, hir sit, ab., hairy. Hispld, his pid, ad/, having strong hairs. Histold, his ti-oid, ad/, tissue-like.
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ling.

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Homageneous, ho-mo-je'ne-us, ad/, of the same kind. Homagraph, ho'mô-graf, n. a system of military signalling.
Homologate, ho-mo'o-gāt, v. to agree; the same. Homologous, ho-mo'o-gus, ad/, agreeing.
Homologue, hom'o-log, n. that which is similar to something else.
Homonym, hō'mô-nim, n. a word with more than one meaning.
 Histology, hist-ol'o-Ji, n. the science of tissues. Historian, hist-ol'rian, n. one who writes history. Historiette, his-to-ri-et', n. a shoft story of history, his'to-ri, n. a record of events. Histrian, his'tri-on, n. an actor. Histrionics, his-tri-on'ik, n. dy. theatrical. Histrionics, his-tri-on'iks, n. play-acting. Wil. hit n. ta strike
   Hit, hit, v. to strike.
Hitch, hich, v. to fasten: n. a sudden obstacle.
Hive, hiv, n. place where bees are kept.
                                                                                                                                                                                                                                                                                                                                                         meaning, no mo-nim, st. a word with more than one meaning.

Homotype, hom' ō-tīp, st. that which is of the same Hone, hon, w. to sharpen.

Honest, on'est, st. di, just; good; frank.

Honesty, on'est, st., the state of being honest.

Honey, hun'i, st. the sweet substance collected by bess.
     Hives, hīvz, n. a skin disease.
Hoar, hōr, adj. white.
Hoar, nor, act, white. [In secret. Hoard, hord, n. a. store; a secret stock; v. to amass Hoarding, hord ing, n. a temporary screen of boards round a building.

Hoar-frost, hor frost, n. white frost.

Hoarse, hors, act, harsh; discordant.

Hoars, hoks, n. a deceptive joke.

Hoarser, hoks'er, n. one who hoares.

Hob, hob, n. the nave of a wheel; a projection near Hobble, hoh'i, v. to lang.

[the fire. Hobbledhey, hob'l-de-hol, n. an awkward youth.

Hobbly, hob', n. a favourite pursuit.

Hobbob, hob-nol', ach, 'a. manual association.

Hoboob, hob-nol', ach, 'amiliar association.

Hockle, hok', n. a German wine.
                                                                                                                                                                                                                                                                                                                                                         Honeycomb, hurl-köm, s. wax cells made by bees.
Honeydew, hurl-kön, s. a juice exuded by plant lice
or the plant they infest; a sweetened tobacco.
Honeymoon, hurl-moon, s. first month of marriage.
Honeysuckle, hurl-sukl, s. a climbing flowering
                                                                                                                                                                                                                                                                                                                                                           Honied, hun'id, ad/. accounding in sweetness; flatter-
Honorarium, on or ā'rī-um, n. a voluntary fee. [fee,
Honorary, on'or-ar-ī, ad/. conferring honour; without
                                                                                                                                                                                                                                                                                                                                                             Honour, on'or, n. esteem due to worth.
                                                                                                                                                                                                                                                                                                                                                           Hood, hood, s. a head covering; folding roof of a vehicle.
                                                                                                                                                                                                                                                                                                                                                           Hoodman, hood'man, n. the person blindfolded in the juvenile game formerly called "hoodman-blind." Hoodwink, hood'wink, v. to deceive. Hoof, v. the horny substance on an animal's foot.
Hock, hok, n. a German wine.

Hockle, hok'l, n. to hamstring.

Hockle, hok'l, n. to hamstring.

Hockle, hok'l, n. a shoulder-supported receptacle for carrying bricks or mortar

Hodden, hod'en, n. cloth '('hodden-gray'') manufactured from undyed wool.

Hodge-podge, hod'podl, n. a mixed mass.

Hoddernal, hod'man, n. a mason's iabourer.

Hodgraph, hod'o-graf, n. a curve illustrating the theory of central forces. [ing distances traversed. Hodoniete, hod-don'etct, n. an insument for measur-Hoe, ho, n. an implement for breaking up earth.

Hog, hog, n. a castrated boar pig: a year-old unshom
                                                                                                                                                                                                                                                                                                                                                           Hookah, hoo'ka, n, a pipe in which the smoke passes
                                                                                                                                                                                                                                                                                                                                                                                 through water.
                                                                                                                                                                                                                                                                                                                                                             Hoop, hoop, s. a ring of wood or metal.
Hodoneter, ho-don'e-ter, a, an instancent for measur-
hoe, ho, n, an implement for heading up earth.
Hog, hog, n, a castrated boar pig; a year-old unshorn
sheep; a glution or dirty fellow.
Hogshead, hogs hed, n, a large cask.
Hoist-toty, hol'st-owtt, naer, an exclamation of sur-
Hoist, v, to raise; to lift, large, an exclamation of sur-
Hoist, v, to raise; to lift, large, and large large large,
Hold, hold, v, to keep possession of; to maintain; to
Hold, hold, v, to keep possession of; to maintain; to
Hold, hol, n a holiow place; a pit; a dent.
Hold, hol, n a holiow place; a pit; a dent.
Holiday, hol'-dia, n, a feast day, a day of rest.
Holiness, hol'lines, n, sacrodness.
Hollands, hol' ands, n, a buch yen.
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a cavity; ad,
Hollow, hol'd, n, a hole; n depression; a hole,
Hollow, hol'd, n, a hole; n, depression; a hole,
Hollow, hol'd, n, a hole; n, depression; a hole,
Hollow, hol'd, n, a hole; n, depression; a hole,
Hollow, hol'd, n, a hole; n, depression; a hole,
Hollow, hol'd, n, a hole; n, depression; a hole,
Hollow, hol'd, n, a hole,
Hollow,
                           many sorts of measurements.
   Holster, hol'ster, n. a case for holding pistols. Holt, holt, n. a wood; an orchard. Holy, ho'li, n.d. morally pure; sacred. Holy-rood, ho'll-rood, n. holy-cross.
                                                                                                                                                                                                                                                                                    [boards.
      Holystone, ho'll-ston, " a stone used for scrubbing
   Holystone, ho'll-ston, n a stone used for scrubbing Homage, hom'ij, n. reverence; respect; feath, Home, hom, n. the place or country of one's own abode or birth; a dwelling.

Homely, hom'il, adh, faunther; plain, Homelyn, hom'el-un, n. a species of ray.

Homeopathic, ho-me-o-puhh'ik, adh. relating to
                           home pathy.
   home-pathy. hom'spun, adj. of domestic manufacture, Homespun, hom'spun, adj. of domestic manufacture, Homestead, hom'sted, n. the place of the home. Homicled, hom'l-sid, n. murder; a gana-killer. Homilletica, hom-l-ei'ks, n. the art of homily-contonily, hom'l-in, a serious discourse. [struction. Hominy, hom'r-in, n. huiled corn. Hommock, hom'ok, a small conical hill. Hemodont, ho'mô-dont, adj. having teeth all alike.
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Hoop, hoop, n. a ring of wood or metal.

Hooper, hoop'er, n. a cooper,

Hooping-cough, hoo'ping-kof, a convulsive cough.

Hoope, hoop'o, n. a large-crested bird.

Hoot, hoët, v. to cry out.

Hoove, hoov, n. a disease of the abdomen in cattle,

Hop, hop, v. to leap of one leg; to spring; n. a plant

jielding comes used in brewing. [n. confidence.

Hope, hop, r. to anticipate; to cherish desire of good;

Hopper, hop'er, n. a hop-gatherer; a chute for

diverting material into a machine.

Hoppel, hop'l, v. to feter by fastening the feet. diverting material into a machine.

Hopple, inoyl, v. to fetter by fastening the feet.

Horal, hōr'al, adr, relating to an hour.

Horde, hōr'al, adr, relating to an hour.

Horden, hord, v. a migratory tribe.

Hordenum, hord'e-un, v. barley.

Horehound, hor'hownd, v. a plant used as a tonic.

Horizon, ho-ri'zon, v. line where earth and sky meet

Horizontal, hor-l-zon'la, adr, level.

Horn, hawrn, a bony or epidermic projection from the

head of an animal. Authorized extraority v. a head of an animal; prolonged extremity; a musical instrument. Horner, hawm'er, st. a dealer in horns. Horning, hawm'ng. n. the crescent moon.

Horning, hawm'ng. n. a step dance.

Horny, hawm'n, ad/ hornlike, hard, unfeeling.

Horography, horograft, n. nt of dal construction.

Horology, horo-loj, n. a time-lece. c fime-telling.

Horoscope, horo-skop, n. an astrological prediction.

Horoscope, horo-skop, n. an astrological prediction.

Horoscopy, horo-skop in. the art of prediction.

Horrent, hor'ent, ad/, bristimy.

Horrible, hor'ibl, ad/, dreadful.

Horrid, hor'id, ad/, 'Hightid!

Horror, hor'er, n. violent feat.

Horse d'œuvre, or-diwr, n. a preliminary relish.

Horse, hors, n. a familiar quadruped.

Horse-power, hor's how, n. the power a horse can

Horseshoe, hor's-boo, n. shoe for horses, or a thing of

that shap, hor's-hoip, n. a driving whip; n. to

Hortative, hor's-tiv, ad/, encouraging; advising.

Hortus Eucles, hor's-tiv, ad/, encouraging; a collection of dried Horning, hawm'ing, n. the crescent moon. Hortus siccus, hortus-sickus, n a collection of dried Hosanna, hō-zan'a, n praise to God. [plants. Hose, hōz, n. stockings; a portable pipe for conveying water. Hosier, hoz'i-er, n. one who sells stockings. Hospice, hos'pës, n. house of charitable entertainment. Hospitable, hos'pit-able, adj. charitable; kind to strangers.

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Hospital, hos pital, n. a home for the sick.
Hospitality, hospitaliti, n. generous entertainment.
Hospitality, hospitaliti, n. generous entertainment.
Hostage, host'al, n. a person left as a pledge.
Hostel, host'el, n. an inn.
Hospies, host'es n. female hast
      Hostel, hos'tel, #. an inn.
Hostels, hos'es, #. female host.
Hostelle, hos'es, #. female host.
Hostelle, hos'el, #. ag room at an inn.
Hot, hot, #. ag room at an inn.
Hot, hot, #. ag hostel; warm; ardent.
Hothed, hot'bed, #. a heated bed for forcing plants.
Hothed, hothelf, #. a confused mixture.
Hotel, hot-lef, #. a superior inn.
Hotheaded, hot'hed'ed, #. farce; impetuous.
Hotheuse, hot'hows, #. a house kept for growing tender plants.
    Hothouse, hothows, n. a house kept tor growing tender plants.

Hot-press, hot pres, v. to press between hot plates.

Hotspur, hot'sper, n. one who spurs his horse to great speed; an impetuous man.

LAfrica.

Hottentot, hot'en-tot, n. an aboriginal of South Houdah, hor'dah, n. a seat on an elephant's back.

Houdah, hoo'dah, n. a seat on an elephant's back.

Houdah, hok, n. the joint immediately below the Hound, hownd, n. a dog kept for hunting.

[fetlock.

**Town our de minimited.**
Hound, hownd, n. a dog kept for hunting. [fetlock. Hour, our, n. 60 minutes.]
Hour, our, n. 60 minutes.
Hour, our, n. 60 minutes.
Hour, how's, n. a lymph of paradise.
House, how's, n. a dwelling or place of assembly.
House, how's, n. a dwelling or place of assembly.
House, how'el, n. a het Holy Eucharist.
Housewifery, how's wife-ri, n. pertaining to the duties of the mistress of the house.
Howsel, how'el, n. a mean cottage.
Hovel, hov'el, n. a hean cottage.
Hovel, hov'el, n. a hean cottage.
Howel, how'd, n. (see Houdah).
Howitzer, how'it-zer, n. a kind of short cannon.
Howl, how, n. to cry or yell, as a dog.
Howlet, how'elt, n. a kind of owl.
Hoy, hoy, n. a small coasting gessel.
Hub, hub, n. centre of a wheel.
Hubbah, hub'ab, n. tunuit.
Huckle, huk'l, n., the hip; a hip-like projection.
Huckaback, huk'a-bak, n. table lines.
Huckaback, huk'a-bak, n. table lines.
Huckaback, huk'a-bak, n. table lines.
Hudde, hud'l, v. to crowd; to bring together hastily Hudibrastic, hu'd-di-bras'tik, ad/. in the style of Hug, hug, n. colour; v. a shouting.
Huddibrastic, hud-di-bras'tik, ad/. in the style of Hug, hug, n. colour; v. a shouting.
Huddibrastic, hud-di-bras'tik, ad/. in the style of Hug, hug, v. to embrace nowerfullv.
        Hour, our, s. 60 minutes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hut, hut, n. a mean dwelling.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             liquids.
      Huff, s. petulant anger.
  Huff, n. petulant anger.

Hug, hug, v. to embrace powerfully.

Huge, buj, ad/, gigantic; massive; large.

Huguenot, huge-no, n. a French protestant.

Hulle, hulk, n. body of a ship.

Hull, hulk, n. body of a ship.

Human, him, n. to shell.

Human, him, n. to make a buzzing sound.

Human, him, n. d/, pertaining to mankind.

Humane, him, man, d/, kind.

Humanist, hü'man-ist, n. a student of human nature.

Humanist, hü'man-ist, n. a student of human nature.

Humanist, hü'man-kind, n. the hunan race.

Humanist, him, n'shin, n. coruse burial.
      Humation, hū-mā'shun, n. corpse burial.
      Humble, hum'bl, adv. modest; neek; v. to lower; to Humbly, hum'bl, adv. with humility. [degrade.
  Humbly, humbl, adv. with humbly. [degrade. Humbug, humbug, w. an inposition. Humdrum, hum'drum, adf. dul. [duidity. Humectant, hūm-ck'ant, adf. tending to increase Humeral, hūmeral, adf. pertaining to the shoulder. Humerus, hūmerus, w. the arm above the elbow. Humbur, w. a coarse Indian fabric. Humbur, hūmdri, m. molsture. Humblide, hūmdri, n. molsture. Salle horness. Hummoral, hūmoral, adf. connected with humours. Humoral, hūmoral, adf. connected with humours. Humorous things.
    Humorous, inner-us, adj. exciting mirth.
Humorous, ü'mer-us, adj. exciting mirth.
Humoro, ü'mer, m. wit; fancy; abnormal
Humour, ü'mer, m. wit; fancy; abnormal
Hump, hump, m. a hunch on the back.
Humus, hump, m. a hunch on the back.
Humus, hump, m. a hunch on the back.
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Hunch, bunch, n. a hump. [division. Hundred, hundred, n. ten times ten; a territorial Hung, hung, pa. par. of hang. Hunger, hungger, n. craving for food. Hunger, hungger, n. craving for food. Hunger, hungger, n. a miser.
    Hungry, hung gri, adf. needing food; famishing. Hunks, hungks, n. a miser. Hunk, hund, n. to chase. Hunk, hundi, n. a frame of twigs; a movable frame Hurdy-gurdy, hurdi-gurdi, n. a rude musical instruburi, hur, v. to cast away; to throw forcibly. [ment. Hurly-burly, hurfi-burl], n. confusion. Hurrah, hur-rah', interf. an exclamation of applause. Hurricane, hur rikkin, n. a violent storm. Hurti, v. to damage, or cause pain to; n. a wound. Hurtic, huri', v. to dash or whirl away with noise and Husband, hur's hand, n. a married man. [rapkitty. Husbandman, hur'band-man, n. a labouring farmer. Husbandry, hur'band-ri, n. land-culfivation; farming. Hush, inster, be silent. Hush-money, hush'mun-i, n. money paid for silence, Husk, n. covefing of eestain fruits. Huskiness, husk'. ad. hoarse. Huskar, hox-ar, n. a light cavality soldier. Hussy, hur', n. e. to push. Hustle, hur', v. to push. Hustle, hur', v. to push. Hustle, hur', v. on ewho hustles. Hut, n. a mean dwelling.
         Hatch, huch, m. a box; a coop.

Huzen, huzen', meter, hurrah; a shout of joy.

Hyzenth, h'a-stuta, n. a bulbous plant.

Hyzdes, hra-dez, n. a cluster of ave stars in the constellation of the Hull.
       constellation of the Bull.
Hyaline, hi's-lin, adv. glassy.
Hybrid, hi'brid, adv. produced from different species.
Hybrids, hi'brid, adv. produced from different species.
Hybrids, hi'brid, an. a many-headed monster.
Hydrane, hi'dra, n. a many-headed monster.
Hydrane, hi'dra, hi'dra, n. a water-plug.
Hydraulic, hi-draw'lik, adv. connected with hydraulics.
Hydraulics, hi-draw'liks, n. the science of flowing liquids.
         Hydrocephalus, hi-dro-sel'ā-lus, n. dropsy of the brain.

Hydrodynamics, hi-dro-di-nam'iks, n, the science of
the force of water.

[stance.
         Hydrographer, hi-drog'rā-fer, n. a sea-chart maker.

Hydrographer, hi-drog'rā-fer, n. a sea-chart maker.

Hydrography, hi-drog'ra-ft, n. the art of measuring
       seas.

Hydroid, h'droid, n. one of the sub-class Hydroze,
Hydroigy, hi-dro'-, f. n. the science of water.

Hydroide, h'dro-mel, n. a beverage composed of
Hydrology, hi-dro'ro-li, n. the science of water.

Hydromel, hi-dro'ro-ler, n. a beverage composed of honey and water.

Hydrometer, hi-drom'e-ter, n. a liquid-measuring in-hydrometer, hi-drom'e-tri, n. the art of measuring the power of fluids.

Hydropathist, hi-dro-path'ik, adj, relating to coid-hydropathys, hi-drop'a-thist, n. a practiser of hydropathy, hi-drop'a-thist, n. a practiser of hydropathy, hi-drop'a-thist, n. the coid-water treat-hydrophobia, hi-dro-fo'bl-a, n. canine madness. Hydropical, hi-drop'a-thist, n. the science of fluid hydrops, hi-drop's-al, adj, dropsical.

Hydropsa, hi-dro-stat'iks, n. the science of fluid hydrous, hi-dro-stat'iks, n. the science of fluid hydrous, hi-dro-stat'iks, n. the science of fluid hydrous, hi-dro-stat'iks, n. the science of neith. Hygienica, hi-li-en'tis, n. the science of health.

Hygrometer, hi-grom'e-ter, n. an instrument for calculating atmospheric moisture.

Hydropsa, hi-dro-dro'tsm, n. the science of calculating atmospheric moisture.

Hydrobelsm, hi-lo-th's ism, n. the doctrine that there is no God but matter; mater-alism.

Hymology, him-wo'l-o'l, n. s. collection of hymns; hyperbola, hi-per bola, n. one of the conic sections, hi-per-bola, n. one of the conic sections, hi-per-bola, n. one of the conic sections, achine; bold; pōt; stôrm; mate; tüb; būtm,
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Hyperborean, hi-per-bô're-an, adj, relating to the far
         north.
Hypercriticism, hi-per-krit'i-sizm, s. exaggerated
Critifism. [Syllables. Hyphen, &!fen, n. a printer's mark (-) joining two Hypnotism, hip'no-tizm, n. meaneric aleep. Hypochondriac, hi-po-kon'dri-ak, n. one suffering
  from delusions.
Hypochondriacal, hl-po-kon-dri'ak-al, ad/melancholy.
Hypocrise, hip-o-gas' trik, adv. relating to the lower part of the abdones.
Hypostasis, hi-pos'tă-sis, n. essence; being; person-
Hypostatic, hi-po-stat'ik, edj. real; distinctive; sub-
stantial. [angle. Hypotenuse, hi-pot'en-üs, s. the side opposite a right Hypothec, hi-pot'ek, s. a lien on goods for money last.
         lent.
Hypothesis, hi-poth's kit, u. to pledge as security. Hypothesis, hi-poth's kit, u. a supposition. Hypothesical, hi-po-th'esi, u. a supposition. Hypothesical, hi-po-th'esi, u. di-conditional. Hypometry, hip-sony'esi, u. the art of measuring Hysos, his'un, u. a Chinese green tea. [hoights. Hysop, his'up, u. an aromatic plant. Hysterics, his'ter-iks, u. nervous fits of alternate laughing and cryme;
Iambus, I-am'bus, n. a metrical foot of two syllables. Ibidem, ib-l'dem, adv. in the same place. Icarian, I-kā'ri-an, adv. pertaming to flight.
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Ibidem, ib-l'dem, adv. in the same puce.

Learian, 1-käri-an, adv. pertanung büght.

Lea, is, s. frozen water.

Lea-ge, is'āj, s. the glacial period.

Lee-beat, is'hōt, s. baa for forcing through or over ice.

Lee-beat, is'hōt, s. baas of floating through or over ice.

Lee-beat, is'hōt, s. mas of floating ice.

Lee-beat, is'hōt, s. mas of floating ice.

Lee-beat, is'hot, s. nas of floating ice.

Lee-beat, is'hot, s. nack of dirfted ice.

Lehnite, ik'nit, s. a fossil footprint.

Lehnology, is'hai-oli, s. the science of fossil foot-

Lehnylogy, is'hai-oli, s. tossil fish.

Lehnylogy, is'hai-oli, s. a fossil fish.

Lehnylogy, is'hai-oli, s. the natural history of 

Leicle, is'ik', s. pendant ice.

Lenn, i'kon, s. a figure of Christ or a saint.

Leonoclasm, i-kon'o-klazm, s. inage-breaking.

Leonoclasm, i-kon'o-klazm
                               the foundation of knowledge and existence. Ideality, i-deafti-f. a. fancy. Identify, i-denf'i-f. v. to recognise. Identify, i-denf'i-f. v. to recognise. Identify, i-denf'i-f. v. the condition of being the same. Ideography, i-de-og ra-f. v. kleas in pictures. Idea, Idz. v. a particular day of the Roman month. Idiogr, idf'i-o-si, w. the state of mental aberration. Idiom, idf'i-um, w. mode of expression peculiar to a language or nepulse.
                       idiom, id-to-si, a. die sade of expression peculiar to a language or people. Idiopathy, id-lop's-l/l. m. primary disease. Idiopathy, id-lop's-l/l. m. primary disease. Idiopathy, id-lop's-l/l. m. primary disease. Idiopathy, id-lop's-l/l. m. peculiarity of tem-Idiotic, id-l-o-tik, adj. extremely foolish. Idiol, id-lo-tik, adj. extremely foolish. Idiol, id-lo-tik, adj. extremely foolish. Idiol, id-lo-tik, adj. extremely foolish. Idiolise, id-lo-liz, v. to worship; id oldore. Idiolize, id-lo-liz, v. to worship; id-los dore. Idyl, id-li, m. a short pastoral poem. Igneous, ig-nes-ent, adj. ready to break into fire. Ignescessi, ig-nes-ent, adj. ready to break into fire. Ignescessi, ig-nes-ent, v. to kindle; to take fire. Ignesia, ig-nes-bl, adj. low; mean. Ignominious, ig-no-mini-us, adj. disgracoful. Signosias, ig-nes-mini-us, adj. disgracoful. Signosias, ig-ne-mini-us, adj. disgracoful. Signosias, ig-ne-mini-
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ENGLISH DICTIONARY.

Ignoratice, ig'no-rans, a. unleamed state; want of Ignoratice, ig'no-rans, a. unleamed state; want of Ignore, ig-nor', v. to disregard.

[Ill, ill', ill, a. a. a. ill, ill, a. a. feeling of enmity.

Ill, ill, a. a. a. ill, ill, a. a. feeling of enmity.

Ill-atour, ill-s'sun, a. inference.

Ill-blood, il'blud, a. a. feeling of enmity.

Ill-bred, ill-bay badly trained.

Illegal, il-le'gal, a. d. against the law.

Illegal, il-le'gal, a. d. against the law.

Illegal, il-le'gal, a. d. against the law.

Illegal, ill-le'gal, a. d. against the law.

Illication ill-s'ill, a. d. unlawful.

Illication ill-s'ill, a. d. unlawful.

Illication ill-le'gal, a. d. illication illication ill-le'gal, a. d. illication illication.

Illication ill-le'gal, a. d. illication.

Illision, il-lib'er-al, a. d. illication.

Illumine, ill-ill'and, a. d. mean; peevih.

Illogical, il-lo'ik-al, a. d. unlucky.

Illumine, ill-ill'and, a. to tirrow light upon.

Illusion, il-lib'ser-l, a. d. unlucky.

Illumine, ill-ill'ser-l, a. d. illications,

Illustrate, ill-lus'trat, a. to decorate with pictures;

to make clear.

Illustrious, il-us'trat, a. to decorate with pictures;

to make clear.

Illustrious, ill-us'trat, a. d. distinguished; famous;

to make clear.

Illustrious, ill-us'trat, a. d. distinguished; famous;

to make clear.

Illustrious, ill-us'trat, a. v. to decorate with pictures;

to make clear.

Illusion, ill'and, a. n. work of the fancy.

Imagine, in-al'in, a. to fancy; to think; to conceive,

Imagine, in-al'in, a. to who recites prayers in a mosque,

Imbar, im-bar, v. to ewolude.

Imbien, im-bar, v. to evolude.

Imbien, im-bar, v. to the one brute-like.

Imbue, im-brot, v. to to depeny.

Immarental, im-l-ic'rl-al, a.d. unineportant; not com-

Immarental, im-l-ic'rl-al, a.d. unineportant; not com-

Immarental, ill-l-ic'rl-al, a.d., unineportant; not com-
              Immanent, im'a-nent, ad., inherent, iposed of matter.
Immanent, im'a-nent, ad., inherent, iposed of matter.
Immaterial, im-1-ie'ri-al, ad., unimportant; not com-
immature, im-a-ie'r, ad., unine; imperfect.
Immeasurable, im-mezh'ur-abl, ad., incapable of
                                                                measurement.
                 Immediate, im-mē'dī-āt, adj. instant; direct.
Immemorial, im-mem-ō'ri-al, adj. beyond wemory
                 Immenserial, int-mem-o'ri-at, adj. beyond memory.
Immense, int-mens', adj. unlimited; grgant.c; vast.
Immerse, un-mers', v. to dip under water.
Immersion, un-mer'sbun, n. the act of unmersing.
Immethodical, int-meth-od'ik-al, adj. irregular.
                 Immethodical, in-ine/h-od'ik-al, ad/, irregular.
Immigrant, im'ni grant, n. one who immigrates.
Imminent, im'n-ient, ad/, threatening; impending.
Immischle, im-is'-ble, ad/, incapable of being mixed.
Immit, in-init', v. to inject.
Immodolity, im-mo-bli'l-ti, n. fixedness.
Immoderate, im-mod'est, ad/, indecent, bold; impudent.
Immodest, un-inod'est, ad/, indecent, bold; impudent.
Immodest, un-inod'est, ad/, indecent, bold; impudent.
                     Immolate, mu'mo-lât, v. to sacrifice.
Immorality, ma-mo-ral'it-i, u. vice.
                     Immortal, un-mort'al, sa). imperishable.
Immortality, im-mortal'it-I, n. eternal life.
              Immortality, in-mortaliti, n. eternal life.

Immortality, in-mortaliti, v. to make mmortal.

Immortalize, in-mortaliti, v. to make mmortal.

Immortalize, in-mortaliti, v. to make mmortal.

Immortality, in-mortaliti, n. exempton; privilege,

Immune, in-min', ad, exempt; not hable to infection.

Immune, in-min', v. to confine within walls.

Immune, im-min', v. to confine within walls.

Impaic, im-pake, in-mitaliti, ad, unchangeable.

Impaic, im-pake, v. to drive close together.

Impain, im-pai', v. to deteriorate; to weaken.

Impain, im-pai', v. to paint.

Impain, im-pai', v. to chrose of the paint of the pai
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dky; at; arm; eve; elk; thère; we; pin; machine; böld; pot; stôrm; mute; tub; burn.

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PEARS' CYCLOPAEDIA.
    Impartial, im-pai'shal, adi. just.
Impassable, im-pas'abl, adi. not to be passed.
Impassable, im-pas'abl, adi. not to be passed.
Impassible, im-pas'abl, adi. not passed.
Impassionate, im-pas'hunat, adi. strongly affected.
Impassionate, im-pas'hunat, adi. strongly affected.
Impassionate, im-pas'hunat, adi. excited.
Impassionate, im-pas'hunat, adi. excited.
Impardi, im-pardi adi. fearless.
Impacahment, im-pech'ment, s. censure; accusation by Crown or other representatives.
Impectable, im-pech'ment, s. censure; accusation by Crown or other representatives.
Impectable, im-pech'ment, s. a hindrance.
Impectiment, im-pech'ment, s. a hindrance.
Impel, s. to urge; to instigate,
Impel, im-pech', v. to threaten; to hang over; to be Impending, im-pend'; s. to threaten; to hang over; to be Impending, im-pend'; s. dt. imminent.
Impentrable, im-pen'e-tra-bi, adi, hard; incapable of being pierced.
      impenetration, im-pen'e-tra-bi, adj. hard; incapable of being pierced. Irrepenting. Impenitence, im-pen'i-tens, ss. the condition of not Impenitent, im-pen'i-tent, adj. without penitence. Imperative, im-per'a-tiv, adj. urgent; peremptory. Imperectible, im-per-gent'ibl. adj. not perceivable. Imperfect, im-per'fekt, adj.; short of perfection. Imperfection, im-per-fekt'shun, st. incompleteness. Imperforable, im-per'fer-abl, adj. that cannot be perforable.
                                  foraged.
                                                                                                                                                                                                                                                                                                                           [supreme.
      Imperial, im-pēr'ēal, adj. pertaining to an empire; Imperially, im-pēr'ēal, adj. pertaining to an empire; Imperially, im-pēr'lal-l, adv. in an imperial manner. Imperil, im-per'las, adj. commanding; tyrannical. Imperiabable, im-per'ish-abl, adj. enduring; ever-lastically imper'ish-abl, adj. enduring; ever-lastically im-per'ish-abl, adj.
                                  lasting.
lasting. [ence, im-per'man-ens, n. lack of perman-ensempermeable, im-per'me-abl, adj. impervious. Impersonal, im-per'sun-al, adj. without personality. Impersonate, im-per'sun-al, v. to personate. Impertinent, im-per'tin-ent, adj. rude; saucy. Imperturbable, im-per-turbable, adj. incapable of being imperturbable, im-per-turbable, adj. incapable of being imperturbable, im-per-turbable, adj. incapable of being imperturbable.
                                                                                                                                                                                                                                                                                                                                             [trable.
                                  agitated
        Impervious, im-per vi-us, ad/, not pervious; impendentuosity, im-per-d-os/tr/, n. violence; passion. Impetta, im-per-ta, n. momentum, force of motion. Impletty, im-pi'et-i, n. ungodliness.
    Impiety, im-ji'et., n. ungedlunes.
Impinge, im-pinj', v. to strike upon; to touch.
Impinus, un'pius, ad/, profune; irreverent. [able.
Impiacable, im-piak'abl, ad/, inappeasable; inexorimplant, in-piak', v. to fix, as to plant in the ground.
Implead, im-piad', v. to prosecute at law.
Implement, im'ple-ment, n. a tool.
Impletion, im-pib'shun, n. condition of fullness.
Implication, in-pib'shun, n. condition of fullness.
Implication, in-pib'shun, n. entanglement; that which is implied.
Implicit, im-pib'st, ad/. unreserved; implied; unimplore, v. to entreat. [questioning.
Impluvium, in-pib'vi-um, n. basin for receiving rain water in ancient Koman houses.
                                  water in ancient Roman houses.
      Imply, in-pif, at to involve; to include.
Impolicy, im-pol'(-sl, n. imprudence.
Impolitic, im-pol'(-sl, n. imprudence.
Impolitic, im-pol'(-sl, n. imprudence.
Impolitic, im-pol'(-sl, n. do), imprudent; unwise.
Imponderable, im-pon'der-abl, ad/, incapable
being weighed.
    being weighed.
Importun; in-pô'rus, ad/, poreless.
Import, m'port, n. a thing imported; meaning.
Import, in-port', v. to bring in: to signify.
Important, im-port'ant, ad/, valuable; of note.
Importation, im-port-3'shun, n. that which is importation, im-port-3'shun, and the before in goods from
      ported. [other countries. Importer, im-port'er, n. one who brings in goods from Importunity, im-port'un't, n. to urge persistently? Importunity, im-port'un't, n. the act of importuning Impose, n. to lay on: to intrude; to deceive. Imposing, im-po'z nge, ad/: impressive. Imposing, in-po-zin/t, n. n. a deception. Impossible, in-po's inl. ad/: that cannot be done. Impost im'post, n. tribute; a tax; a duty. Imposthume, im-pos'tin, n. an abscess. Imposture, im-pos'tur, n. fraud. Imposture, im-pos'tur, n. fraud. Impotent, im'po-tent, ad/: weak; incompetent; Impound, im-pownd', n. to confine in a pound.
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Improverish, im-pover-ish; v. to make poor.
Impracticable, im-prak'tik-abl, adi. unmanageable.
Impractical, im-prak'tik-al, adi. not practical.
Imprecate, im'prak'tik-al, adi. down good or bad
                      upon ; to curse.
   Imprecation, im-pre-kā'shun, n. a curse.
Impreg nable, im-preg na-bl, adj. that cannot be taken;
invincible.
[pant.
   Impregnate, im-pregnate, v. to imbue: to make preg-
Impregnate, im-pre-skript ibl. adj. without ex-
ternal authority.
   Impress, in-pres', v. to fix deeply; to press upon. 
Impress, in-pres', v. to fix deeply; to press upon. 
Impressible, im-pres' in-fix succeptible. 
Impressment, in-pres'ment, v. the act of forcible 
seizure of inten for war service.
 seizure of men for war service.
Imprimatur, im-pri-mā'tur, s. authority to print.
Imprimai, im-pri mā, aze. in the first place.
Imprint, im-prim't, v. to stamp: to fix on the mind.
Imprison, im-prio'n, v. to incareerate.
Improbable, im-proo'tui, s. without study: off-hand.
Improper, im-proo'er, adf. unbecoming; wrong;
wicked.

[to appropriate.
   Impropriate, im-pro'pri-fit, w. to take possession of; 
Impropriety, im-pro-pri'et-f, w. an improper act. 
Improve, in-proo', w. to make better; to amen. 
Improvement, im-proov'ment, w. the act of improving;
   advancement. [thoughtlessness.
Improvidence, im-prov'l-dens, n. lack of foresight;
Improvident, im-prov'l-dent, adj. inconsidera.e; un-
    thrifty. (posing without prep ration. Improvisation, im-pro-vis-ā'shun, n. the act of con-
Improvisatore, im-pro-viz-ā-tō'rā, n. one who impro-
                                                                                                                                                                                                                                         liessness.
   Imprudence, im-proo'dens, n. incautiousness; reck-
Impudence, im'pū-dens, n. rudeness; insolence;
shamelessness. [tion.
shamelessney. Inductes, in Inductes, insolence, shamelessney. I from Impuga, in-pin', v. to gaincay; to oppose; to questimpulse, in-pin', v. to charge; accusation; Imputation, im-pit-d'shun, n. charge; accusation; Imputation, im-pit-d'shun, n. charge; to accuse. [censure. Inability, im-a-bit-it, n. incapacity.] Inaccessible, im-dx-is-asi, n. want of correctness; error. Inaction, in-ak'shun, n. rext; idieness; lackive, in-ak'tiv. adi; alle; without power to move. Inadequacy, in-ak'tiv. adi; hile; without power to move. Inadequacy, in-ak'tiv. adi; ont allow-like. Inadvertence, in-ad-vert'ent, adi, institutive inalienable, in-al'yen-abl, adi, permanent; incapable of being transferred. Inadvertence, in-ad-vert'ent, adi, mattentive inalienable, in-al'yen-abl, adi, permanent; incapable of being transferred. Inamorata, in-an-ora'ta, n. a woman whom a mane, in-an', adi, empty; void. [io es. Inantiton, in-an-ish'un, n. empliness; exhaustion. Inantito, in-an-ish'un, n. empliness; exhaustion.
Inantiton, in-an-ish'un, i. emptiness; exhaustion. Inantity, in-an'ish'un, i. emptiness; exhaustion. Inapplicable, in-ap'lik-abl, adj. unsuitable. Inapposite, in-ap'o-zit, adj. unfit; not suitable. Inapposite, in-ap-pro'pri-sh'-abl, adj. imperceptible. Inappropriate, in-ap-pro'pri-di, adj. unsuitable. Inapitude, in-ap'-pro'pri-di, adj. unsuitable. Inarithe, in-ar'-dil, adj. indiress, awkwardness. Inarable, in-ar-th'-dil, adj. indistinctly uttered. Inarticulate, in-ar-th'-di-dil, adj. indistinctly uttered. Inartificial, in-ar-th'-fish'al, adj. simple; without art. Inattentive, in-at-territy, adj. heedless. Inaudible, in-awd'-bl, adj. unhead. Inaugural, in-awd'-bl, adj. unhead. Inaugural, in-awd'-bl, adj. unhead. Inaugural, in-awd'-bl, adj. unhead. Inaugural, in-awd'-bl, adj. pertaining to an inauguration.
                      ration.
 Inaugurate, in aw'gū-rāt, v. to initiate; to make public show in commencing an undertaking.

Inaugurate, in aw-spish'us, adj. unfavourable; illomened.
   Inhorn, in hawrn, and implanted; born with.
Incalculable, in-kal'kū-la-bi, adj. counterss. [warm.
Incalescence, in-kal-s'ems, s. the act of growing
Incandescence, in-kan-des'ems, s. white heat. [ment.
Incantation, in-kan-la'shun, s. a charm; an enchânt.
Incantation, kal'pa-bi, adj. not capable.
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Incapacitate, in-ka-pas'it-lit, v. to disqualify.
Incapacity, in-ka-pas'it-lit, v. to disqualify.
Incapacity, in-ka-pas'it-lit, v. to imprison. [colour.
Incarnaste, in-ka'ra-din, v. to to ye red; v. carnation
Incarnaste, in-ka'ra-din, v. to embody in fiesh; adj.
clothed with fiesh. [setting on fire.
Incendiary, in-sen'di-ar-l.v., v. to embody in fiesh; adj.
Incendiary, in-sen'di-ar-l.v., v. to embody in fiesh; adj.
Incendiary, in-sen'di-ar-l.v., v. to embody in fire to.
Incense, in-sens, v. fragrant odour; perfume burned
Incense, in-sens', v. to excite to anger.
Incentive, in-sen'ti-tid, v. doubtfulness.
Incensent, in-sen'ti-tid, v. doubtfulness.
Incensent, in-sen's adj. unceasing; continual.
Incess, in'sen, v. sexual relations between kindred.
Inch, inch, v. the twelfth part of a foot.
Incest, in sext, n. sexual relations between kindred. Inch., inch. n. the twelfth part of a foot. Inchaote, in k0-3t, adi, incipient; unfinished. Incidence, in k0-3t, adi, incipient; unfinished. Incidence, in si-dens, n. an impingement; the manner of failing, in-si-dent, n. a circumstance; an event; adj. Incidental, in-si-dent'al, adj. accidental; casual, Incipient, in-sib'nen, n. a cut; a gash, Incision, in-sib'nen, n. that which incites, Incison, in-si'nen, n. that which incites, Incite, in-siv, n. to simulate; to goad, Incivil, in-siv'il, adj. impolite.
Incivil, in-siv'il, adj. impolite.
Inclement, in-klen'ent, adj. without mercy; stormy, Inclement, in-klen'ent, adj.
Inclement, in-kieli' ent, adj, without mercy; stormy, inclose, in-kio² v. to shut in or surround.
Inclosure, in-kio² v. to shut in or surround.
Inclosure, in-kio² viv, adj, enclosing; within expressed inclusively, in-kio² viv, adj, enclosing; within expressed inclusively, in-kio² viv, adj, enclosing; within expressed incognitio, in-koy² viv, adj, unknown; in disquise, incognizable, in-koy² viv, adj, indistinguishable.
Incompatit, in-kol· erret, adj, disconnected; loose.
Incombustible, in-kom-bust¹ viv, adj, that will not income, in 'kum · u, gan; earnings; revenue. [burn.Income-tax, in 'kum-taks, n. atx payable on incomes. Incommen. within adj, indiadquate, incommen. adj, incommen. adj, incommen. Incomparable, in-kom'parabl, adj, inconsistent.
Incompassionate, in-kom-pash un-it, adj, merciless.
Incompassionate, in-kom-pash un-it, adj, merciless.
Incompatible, in-kom-pash un-it, adj, merciless.
Incompatible, in-kom-pash un-it, adj, inconsistent.
Incompetency, in-kom'pa-ten-si, w. the state of being inadequate.
                                                                         inadequate.
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Incompetent, in-kom'pe-tent, ad/. incapable; lacking lacomplete, in-kom-plet' ad/. not complete. [power. Incomprehensible, in-kom-pre-hen'sibl, ad/. not understandable. smaller bulk.

derstandable. [smaller bulk. Incompressible, m-kom-pres'ibl, adj. not reducible to Inconceivable, in-kon-sev'abl, adj. unimaginable. Inconceinalty, in-kon-sin'il-1, m. incongruity. Inconclusive, in-kon-kloo's v, adj. indecisive. Incongenial, in-kon-je'n'al, adj. not in harmony. Incongruity, in-kong-groo-int, adj. unsuitable. Incongruity, in-kong-groo-int, adj. unsuitable. Incongruity, in-kong-groo-int, adj. unsuitable. Incongruity, in-kong-groo-int, adj. unsuitable. Inconsiderable, in-kon'se-kwent, adj. illogical. Inconsiderate, in-kon-sid'er-abl, adj. unimportant. Inconsiderate, in-kon-sid'er-abl, adj. thoughtless. Inconsistent, in-kon-sid'er-si, ad. thoughtless. inconsistent.

inconsistent.

Inconspicuous, in-kon-sist'ent, adj. incompatible, Inconspicuous, in-kon-spik'u-us, adj. not prominent.
Inconstant, in-kon'stant, adj. fickle.
Incontestable, in-kon-test'abl, adj. indisputable.
Incontinence, in-kon'tin-ens, s. unchastity.
Incontinent, in-kon'tin-ens, adj. unchastes. Incontrovertible, in-kon-tro-vert'ibl, adj. indisputable. Inconverience, in-kon-ve'ni-ens, v. to igcommode. Inconvenient, in-kon-ve'gi-ent, adj. ngt convenient, incorporate, in-kon-ve'gi-ent, adj. ngt convenient, incorporate, in-kon'pō-rat, v. to form into a corporate

body. Incorporation, in-kor-pô-rē'shun, s. act of igcor-Incorporati, in-kor-pô-re-al, adj. not Incorporat, in-kor-ekt', adj. not correct. in-kor-ekt', adj. not correct.

Incorrigible, in-kor'ij-ibl, ad/. bad beyond correction. Incorrupt, in-kor-rupt', ad/. pure; sound. Incorruptible, in-kor-ruptibl, ad/, pure; not to be Increaseate, in-kras'at, w. to make thick. [bribed. Incrassate, in-kras'āt, v. to make thick. [bribed. Incrasse, in-kras', v. to make thick. [bribed. Incrasse, in'krēs', v. to expand; to grow. Incrasse, in'krēs't, ad', uncreated. Incredible, in-kred'ibl, ad/, surpassing belief. Incrediblous, in-kred'ibl, ad/, sepassing belief. Increment, in'kre-ment, v. incrasse. Incressent, in'kre-ment, v. increassing. [criminate. Incrassent, in-kres'ent, ad/, increasing. [criminate. Incrassing, in-krus'sta's shun, v. the act of incrusting. Incubate, in'kl-bāt, v. to sit upon eggs; to hatch. Incubation, in-kl-bāt'shun, v. the act of incubating. Incubator, in-kl-bāt'or, v. an apparatus for hatching eggs artificially.

eggs artificially.
Incubus, in'kū-bus, w. a burden; the nightmare.
Incubus, in'kū-bus, w. a burden; the nightmare.
Incubers, in-kul-kā', w. to impress; to teach.
Incubers, in-kul-kā', w. to impressing. Inculpate, in-kul-pat, w. to bring into blame.
Inculpation, in-kul-pat'shun, n. the act of inculpating.
Incumbency, in-kun-ben-si, w. an obligation; the
possession of an office.

Incumbent, in-kum'bent, n. the holder of a benefice;

Incumbent, in-kum'bent, n. the holder of a benefice; act. bounden.

Incumbent, in-kum'bent, n. early printed books. Incut, in-kur', to encounter; to become liable to. Incurable, in-ku'rab, ad). beyond cure. Incuration, in-kur'shun, ad). without curiosity. Incursion, in-kur'shun, n. a hostle invasion; an inroad. Incurvate, in-kur'shu, v. to make crooked. Incurvate, in-kur'shu, v. to curve inward. Incurvate, in-kur'shu, v. to curve inward. Indebtedness, in-de'sed-ness, n. the condition of being Indecent, in-de'sen, ad, inmodest. [in debt. Indecipherable, in-de-sifer-abl, ad/, that cannot be indecising, in-de-sifer, inconclusive. Indecipherable, in-de-kom-por'abl, ad/, not decomindecorous, in-de-kom-por'abl, ad/, not decomindecorous, in-de-kom-por'abl, ad/, unremitting; not giving way to faiting.

grving way to fatigue. and, unalterable, for indefeatible, in-de-fex'fbl, adj. unalterable. Indefeatible, in-de-fex'fbl, adj. incapable of defect. Indefensible, un-de-fens'ibl, adj. defenceless; that cannot be defended.

Indefinable, in-de-fin'abl, adj. not capable of being Indefinite, in-de-fin'abl, adj. not capable of being Indefinite, in-de-fin'abl, adj. vague; unlimited. Indelible, n-de-fin', adj. vague; unlimited. Indelible, n-de-fin', adj. that cannot be effaced. Indelicate, in-de-fi.-i.t. adj. rude; indecent. Indemnify, un-dem'nf-fi, v. to security against loss. Indemnity, un-dem'nf-fi, v. security against loss. Indent, in-dent', v. to notch.
Indentation, in-dent' dishun, v. that which is indented. Indentiter in-dent' in written contract. Indenture, in-den'in, n. written contract.
Independent, in-do-pen'dent, adj. free from control.
Indescribable, in-de-skn'ba-bl, adj. inexplicable.
Indestructible, in-de-struk'ti-bl, adj. incapable of

Indestructible, in-de-struk'ti-bl, adj, incapable of destruction. [terminated. Indeterminable, in-de-ter'min-abl, adj, not to be Indeterminable, in-de-ter'min-at, adj, uncertain. Index, in'deks, n. a table of contents; a guide. Indextary, in-deks-ter'it-l, adj, want of desterity. Indicate, in'dicat-nub'er, n. caoutchouc. Indicate, in'dicat-nub'er, n. caoutchouc. Indicate, in'dicate, to show; to mark. Indicate, in'dicate, to show to mark. Indicative, in'dicate, n. of the who or that which Indict, in-dir', v. to charge with; to accuse. Indicator, in'dir', v. to charge with; to accuse.

Indictive, in-dir'tiv, adj. capable of being indicted.
Indifference, in-dir'er-ens, n. unconcern.
Indifference, in-dir'er-ens, autonocern.
Indifference, in-dir'er-ent-izm, n. indifference. [ing. Indigence, in-dir'er-ent-izm, n. indifference. [ing. Indigence, in-dir'en-us, adj. native.
Indigentin-di-jent, adj. poor; needy.
Indigestion, in-di-jest'yun, n. dyspepsia; weak
Indign, in-dir', adj. unworthy.
Indignant, in-dig'nant, n. angry.

years. Indictive, in-dik'tiv, adj. capable of being indicted.

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Indignation, in-dig-në/shun, s. anger ; resendment.
Indignity, in-dig ni-ti, s. insult; slight.
Indignity, in-dig s. s. blue dye.
Indirect, in-di-rekt', adj. crooked : not direct.
Indiscerable, in-dis-reft', adj. unseen; not visible.
Indiscrete, in-dis-krët', adj. injudicious.
Indiscrete, in-dis-krët', adj. injudicious.
Indiscretion, in-dis-krest' un, st. rashness.
Indiscretion, in-dis-krest' un, st. rashness.
Indiscretionset, in-dis-krim'in-st. adj. confused;
promiscuous.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Inexcusable, in-eks-küz'abl, adj. without excuse. Inexhaustible, in-egz-hawst'ibl, adj. that cannot be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       exhausted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Inexorable, in-egz'or-abi, adj. infexible; not to be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Inexpandible, in-eks-pan'si-bl, adj. that cannot be ex-
Inexpendient, in-eks-pe'di-ent, adj. inconvenient.
Inexpendient, in-eks-pe'ri-ens, s. lack of experience.
Inexplicable, in-eks-pilk-abl, adj. incapable of ex-
planation.
        Indiscriminate, in-dis-krim'in-st, adj. confused; promiscuous, in-dis-krim'in-st-ing, adj, without Indispensable, in-dis-krim'in-st-ing, adj, without Indispensable, in-dis-post, v. to make unfit; to disqualify. Indisposed, in-dis-pozd, adj disinclined; alling, Indisposition, in-dis-po-zish'un, n. disinclination; illness.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Inexplorable, in-eks-plor'abl, adj. that cannot be explored.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Inexpressible, in-eks-pres'ibl, adj. unutterable.
Inexpressive, in-eks-pres'iv, adj. not expressive.
Inextricable, in-eks'trik-abl, adj. incapable of being
extricated.
          Indisputable, in-dis-pūr'abl, adj. beyond dispute.
Indisputable, in-dis-o'shi-abl, adj. inseparable.
Indissouble, in-dis-o'd-bl, adj. not soluble; binding.
Indissolvable, in-dis-solv'abl, adj. incapable of being
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               extricated.

extricated.

infamous, infa-mus, as/. unerring: certain.

Infamous, infa-mus, as/. notorious; wicked; shame-
Infamy, infa-mis, as, the state of being an infamt.

Infant, infami, as, the state of being an infamt.

Infant, infami, as, a young child.

Infanticle, infami-si, as, murder of an infamt.

Infantile, infami, as/. pertaining to infancy.

Infantile, infami, as/. pertaining to infancy.

Infantile, infami, as foot soldlers.

Infattate, infami-si, so to soldlers.

Infattate, infami-si-hun, as unreasoning passon.

Infeasible, infami-si-hun, as, unreasoning passon.

Infect, as, infami-si-hun, as, infami-si-hun, infami-si-hun, as, infami-si-hun, as, infection, infeisible, inferion, infami-si-hun, as, infami-si-hun, as, infeisible, inferion, infeisible, as, as, want of fertili y.
                                             dissolved.
     dissolved. Indistinct, in-dis-tingkt', edf, obscure: faint. Inditie, in-dit', v. to utter; to write; to dictate. Inditement, in-dit'ment, v. that which is indited. Indium, in' di-um, v. a white metallic element. Individual, in-div-id'ü-al, edf, single. [vidually. Individualies, in-div-id'ü-al-iz, v. to distinguish indi-Individualism, in-div-id'ü-al-izm, v. independence of action.
fexistence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Infectious, in-fel-shus, adj. having the quality of infectious, in-fel-shus, adj. having the quality of infection, in-fel-shi tus, adj. unhappy. Infer, in-fer, v. to deduce; to imply. Infernale, in-fer-shi, adj. ca, who of being inferred. Inference, in-fer-shi, adj. ca, who of being inferred. Inference, in-fer-shi, adj. adj. deducible. Inferior, in-fer-filer, adj. subordinate. Inferior, in-fer-filer, adj. subordinate. Inferior, in-fer-file, in-fer-shi, adj. outrageous; damnable. Inferior, in-fer-file, adj. outrageous; damnable. Inferiule, in-fer-shi, adj. outrageous; landale. Inferiule, in-fil-del, n. a disbeliever m Christianty. Infidelity, in-fil-mi, adj. unlimited. Infinity, in-fil-mi, adj. unlimited. Infinity, in-fermi-shi, n. a hospital. Infimity, in-fermi-shi, n. a hospital. Infinity, in-fermi-shi, n. defect; weakness. Infin, in-file, in-file in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 infirmity, in-term'it-i, n. detect; weakness. Infix, m-fix', v. to fix v. to fix. Infix, m-fix', v. to to cause to burn; to excite. Infiammable, in-fiam' ship, adj. combustible. Infiammable, in-fiam' ship, n. violent heat in any part; state of being in fiame. [ton; excitable. Infiammabory, in-fiam'at-or-i, adj. showing infiammalinate, infiat', v. to swell; to blow out. Infiation, in-fix', shun, n. the act or state of being Infiect, in-fiek', shun, n. the act or state of being Infiect, in-fiek', v. to bend; to conjugate. [infiated. Infiection, in-fik', shun, n., the act of bending; voice Infiection, in-fik', v. to impose. Infile of infiction, in-fik', v. to impose. Infile of infiction, in-fik', v. to impose. Infilence, in-flow-er's-ens, n. method of flowering. Influence, in-flow-er's-ens, n. method of flowering. Influence, in-flow-er's-ens, n. method of flowering. Influential, in-flow-en', sh. flowing in. [power. Influential, in-flow-en', sh. n. a pideimac catarth. Influx, in'fluks, n. a flowing in. Influence in-flowering. n. man epidemac catarth. Influx, in'fluks, n. a flowing in. Influence in-flowering. Influence in-flowering. Influence in-flowering in-
Isdustrialism, m.dus'tri-al-izm, n. the study of industrial pursuits.
Industrious, in-dus'tri-us, adt. diligent.
Industry, in'dus-tri, n. toll; labour; assiduity.
Indusell, in-dwell, n. toll will be included in linearth, in-dwell, in-dwell, n. toll; labour; assiduity.
Indusell, in-dwell, n. to inter.
Inearth, in-erk, v. to dwell in.
Inearth, in-erk, v. to inter.
Inebriation, in-ebri-3th, n. adrunkand; v. to make drunk.
Inebriation, in-ebri-3th, n. adf. unternamens.
Inedited, in-eri-3th, adf. unif for eating.
Inefficient, in-eri-shl, adf. unspeakable.
Inefficient, in-ef-ish'ent, adf. useless.
Inefficient, in-ef-ish'ent, adf. unavailing.
Ineligant, in-ef-ent, adf. tonser; rude; unpolished, ineligible, in-ef'ij-ibl, adf, not worthy; unsuitable.
Inely, in-ek-wa-b, adf, unjust.
Inequable, in-ef-wa-b, adf, unjust.
Inequable, in-ef-wa-b, adf, unjust.
Ineradicable, in-ef-adf'ka-bl, adf, incapable of being Inert, in-er'shl-a, n. singgishness.
Inessential, in-er-en'shal, adf, undessential.
Inestimable, in-ef'in-abl, adf, unavoidable.
Inestimable, in-ef'in-abl, adf, unavoidable.
Inestable, in-eg-akt', adf, incorrect.
day; at; arm; ève; elk; thère; foe; pln; m
                                          trial pursuits.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Influxion, in-fluk'shun, s. influsion.
Inform, in-form', v. to impart: to animate; to toil.
Informal, in-form'al, act. without form; irregular.
Informality, in-form-al'it-I, s. a dispensing with form.
Informant, in-famant, s. one who informs against.
Information, in-form-d'shun, s. knowledge.
Infracostal, in-fra-kost'al, act. beneath the ribs.
Infraction, in-frak'shun, s. a breach.
Infragrant, in-frak'grant, act. lacking fragrance.
Infragrant, in-frak'grant, act. lacking fragrance.
Infragrant, in-frak'grant, act. lacking fragrance.
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PEARS' CYCLOPAEDIA.

Infraguent, in-fré quent, sei, mare ; uncommon.

Infringe, in-frit, v. to violate ; to-breek.

Infruiate, in-fir fat, v. to enrage.

Infrue, je-fir v. to brew; to steep; to pour into.

Infrashe, jn-fir fib, sei, capable of being infused.

Infrashe, jn-fir fib, sei, capable of being infused.

Infrashe, jn-fir fib, sei, having power of infusion.

Infrashering, in/gath-er-ing, m. harvest.

Ingenious, in-fin-in-sei, sei, seifful; inventive.

Ingenium, in-je-fi-iu, sei, seiful; inventive.

Ingenium, in-je-fi-iu, m. inventiveness.

Ingenium, in-je-fi-iu, m. inventiveness.

Ingenium, in-je-fi-iu, sei, seiful; inventive.

Ingenium, in-je-fi-iu, m. inventiveness.

Ingenium, in-je-fi-iu, m. inventiveness.

Ingenium, in-je-fi-iu, seif, seigraceful.

Ingenium, in-gio' fivus, seif, disgraceful.

Ingenium, in-gio' fivus, seif. disgraceful.

Ingrain, ingrain, v. to insert a scion in a stock.

Ingrain, ingrain, v. to insert a scion in a stock.

Ingrain, ingrain, v. to fix deeply; to dye in the raw.

Ingrain, ingrain, v. to fix deeply; to dye in the raw.

Ingratitude, in-grain'ti-dd, n. unthankfulness for Ingratitude, in-grain'ti-dd, n. unthankfulness for Ingredient in-gred dient, n. zoompound part. [favours.

Ingraess, ingress, n. entrance.
    Ingreedient, in-gre'di-ent, s. a compound part. [favo ingrees, n. intrance.
Ingreen, n. ingres, s. entrance.
Ingruing, in'gro-ing, ad/. growing inward.
Inguling, in gwi-nal, ad/. relating to the groin.
Inguli, in-gwi-nal, ad/. relating to the groin.
Inguli, in-gwi-nal, ad/. relating to the groin.
Insabit, in-hab'it, s. to swallow greedily.
Insabit, in-hab'it, s. to dwell in.
Insabitant, in-hab'it, s., a dweller.
Insabitant, in-hab'it, s., a dweller.
Insabitant, in-hab'it, s., to draw into the lungs.
Insabitant, in-hab', s. to draw into the lungs.
Inharmonious, in-har-on-in-us, ad/. discordant,
Inhere, in-her', s. to stick.
Inherent, in-her'elt, s. to possess by descent.
Inheriti, in-her'it, s. to possess by descent.
Inheritin, e., in-her'it, s., s., an inherted property
            Inheritance, in-her it-ans, n. an inherited property.
Inhibit, in-hib'it, v. to prohibit.
Inhibiton, in-hib-it/un, n the act of prohibiting.
Inhospitable, in-hos pit-abl, adj. not disposed to
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Inhospitable, in-hos pit-abl, adj. not disposed to entertain straigers.

Inhuman, in-hi'man, adj. cruel; unfeeling.
Inhumanity, m-hu-man'i-t, n. want of feeling.
Inhumation, in-hi'm'i-shun, n. the act of burial.
Inhume, in-him'i, v. to bury.
Inimical, in-im'ik-al, adj. unfriendly; repugnant.
Inimitable, in-im'ik-al, adj. beyond imitation.
Iniquitous, in-ik'wit-a, adj. injust; wicked.
Iniquity, in-ik'wit-i, n. injustice; wickedness.
Initial, in-ik'i-it, n. injustice; wickedness.

[with

Initiate, in-ish'i-it. v. to introduce; to make acquainted initiation, in-ish-i-i'shun, v. the act of initiating, initiative, in-ish'i-i'd-iv, ad/, serving to initiate; v. the laject, in-jekt', v. to force in. [first step. in-jekt', v. to force in act of forcing in; a clyster.

Injudicial, in-joo-dish'al, adj. contrary to legal form.

Injudicial, in-joo-dish'al, adj. contrary to legal form. Injudicial, in-joo-dish'al, adj. contrary to legal form. Injudicious, in-joo-dish'us, adj. unwise: imprudent. Injunction, in-jungk'shun, n. an order of court; a comfigure, in joor, v. to damage: to harm. [mand. Injuncies, in-joo'rl-us, adj. harmful. Injuncies, in-joo'rl-us, adj. harmful. Injuncies, in-joo'rl-us, adj. harmful. Injuncies, inju'k inn, n. an inisholder, formerly of horn. Inistings, ingk' inn, n. a vessel for holding ink. Inisid, in-lidd, n. lidd, n. lidd, in-lidd, in-lided, in-lided, in lidd, in-lidd, in-lided, in lidd, in-lidd, i

Issovale, in'ô-vit, v to introduce a novel idea.
Innuento, in-û-en'do, m a side hint. [numbered. Innuento, in-û-en'do, m a side hint. [numbered. Innuentendo, in-û-irish'us, asi, not nourishing. Inoculate, in-où-i-ish u, asi, not nourishing. Inoculate, in-où-i-i-i-i, w to engraft; to communicate disease by the insertion of matter into the system. Inoderous, in-ô-der-us, asi, scentless. Inoffensive, in-o-fer-us, asi, without offence. Inofficial, in-o-fish'al, asi, without proper authority. Inoperative, in-op'e-a-tiv, asi, inactive; without Inopportune, in-op'or-tin, asi, untimely. [effect. Inordinate, in-or-gan'is, asi, without living organisation. Inorganic, in-or-gan'is, asi, without living organisation.

inorganic, in-organic, ed., without awing organic, in-organic, ed., without himporphistion.

Insoculate, in-palent, s., patient living in hospital.

Inspuring, in-po'ing, s., a pouring in.

Input, in poot, s., contribution.

Inquest, in'text, s. a judicial inquiry concerning an quietude, in-kwiet-id, s. uneasiness; restiessness.

Inquire, in-kwir', s. to ack; to examine.

Inquire, in-kwir', s. to ack; to examine.

Inquiri, in-kwir', s. examination; act of inquiring.

Inquirillon, in-kwiz-ish'un, s., a judicial inquiry; a tribunal for dealing with heretic.

Inquirillon, in-kwiz-ish'un, s., a judicial inquiry; a tribunal for dealing with heretics.

Inquirillon, in-kwiz-ish'un, s., a judicial inquiry; a tribunal for dealing with heretics.

Inroad, in'tod, s., a sudden incursion.

Inrault, in'tod, s., a sudden incursion.

Insalutary, in-sal'id-ta-i, adj, unwholesome.

Insalutary, in-sal'id-ta-i, adj, undepable of being salisfied.

Insalish, in-sa'in-tab, adj, incapable of being in-salishied, in-sa'in-tab, adj, incapable of being in-salishied, in-sa'in-tab, adj, in-capable of being in-salishied, in-sa'in-tab, adj, in-capable of being in-salishied, in-sa'in-tab, adj, in-capable of being in-salishied.

satisfed.

satisfed.

Insatisfed, m. satisfed, m. the state of being (satiable).

Insatistey, in-satifetd, m. the state of being inInsacribe, in-skrift, v. to write upon.

Insacribe, in-skrift, v. to writing upon; a title.
Insacribe, in-skr. na same flying or crawling animal.
Insectivorous, in-sekt, m. a same flying or crawling animal.
Insectivorous, in-sekt, na same flying or crawling animal.
Insectivorous, in-sekt, na same flying or crawling animal.
Insectivorous, in-sekt, na satisfication of insection insects.
Insensate, in-sect sat, adv. thoughtless; senseless.
Insensate, in-ser satisfication adv. without perception.
Inseparable, m-sep a-rabi, adv. that cannot be sepaInsert, in-sert, v. to put in.
Insect, in-sert, v. to put in.
Insect, in-set, v. something inserted: v. in-set, in-set, v. something inserted.

thing inserted.

Inset, in'set, n. something inserted; v. to set in.

Insete, in'set, n. something inserted; v. to set in.

Inside, in-sid', n. within.

Insidious, in-sid', n. within.

Insidious, in-sid', n. s. d./, deceitful; designing.

Insignt, in'sit, n. penetration; knowledge.

Insignia, in-sig "il-a, n. badges of office.

Insincere, in-sin'-il-a, n. deceitfulness.

Insincere, in-sin'-il-a, n. lacking in life and spirit.

Insiplence, m-sip'-il-n, n. foolishness.

Insist, in-sist', v. to urge with persistence.

Insiplence, m-sip'-ins, n. portinacity.

Insinare, in-sin'-, v. to state.

Insolate, in-sin'-, v. to state.

Insolate, in-so'sta-b', n. intemperance; drunken
Insolate, in-so'sta-b', n. intemperance; less.

Insolate, in'so'sta, v. to expose to the sun.

Insolate, in'so'sta, v. to expose to the sun.

Insolate, in so-lät, v. to expose to the sun.
Insolence, in so-lens, w. rudeness.
Insolent, in so-lent, ad, insuling.
Insoluble, in-sol'o-b, ad, in capable of being disInsoluble, in-sol'o-b, ad, incorpicable. [Solved.
Insoluble, in-sol'o-b, ad, incorpicable. [Solved.
Insoluble, in-sol'si-an, w. indifference. [debts.
Insourian.ce, in-soo'si-ans, w. indifference. [aminer.
Inspector, in-spect' to r. w. a superintendent; an exInspector, in-spect' to r. w. a superintendent; an exInspirit, in-spir', w. to animate.
Inspirit, in-spirit, w. to animate.
Inspirit, in-spir

Installation, in-stal-a'shun, so the act of giving pos-

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Instalment, in-stawl'ment, s. the act of installing;
payment of part.
payment of part.

Instance, in stans, w. example; occurrence.

Instant, in stant, w. a moment; ad; present; urgent.

Instant, in stant, w. a moment; ad; present; urgent.

Instantaneous, in-stant-fine-us, ad; done in an

Instante, in-stait; w. to install.

Installation, in-stait shun, s. placing among the stars.

Instant, in-stait; w. to install.

Installation, in-staid shun, s. placing among the stars.

Institute, in-stait; w. to urget to do; to incite.

Institute, in-stail; w. to drop into; to infuse.

Institute, in-stail; w. to drop into; to infuse.

Institute, in-stringer, s. natural impulse.

Institute, in-stringer, ad; sanistated with.

Institute, in-stringer, ad; sanistated with.

Institute, in-stringer, ad; sanistated institute, in-stringer, in-stringer, in-surface, in
        Insular, in 'sū-lar, ad/, pertaining to an island.

Insulate, in 'sū-lāt, v. to abuse; to affront.

Insult, in-sult, v. to abuse; to affront.

Insult, in sult, v. abuse; a fafront.

Insuperable, in-sū-perabl, ad/, not to be overcome.

Insuperable, in-sup-port-abl, ad/, insuferable.

Insuperable, in-sup-port-abl, ad/, insuferable.

Insurance, in-shoor' and, v. the act of insuring.

Insurance, in-shoor' and, act use to insuring.
Insurance, in-shoor ans, n. the act of insuring.
Insure, in-shoor, v. to secure; to invest against loss.
Insure, in-shoor, v. to secure; to invest against loss.
Insurent, in-sur-inn, n. one who rises against authority.

[overcome, insurentialle, in-sur-mownt'ab], adv. not to be insurrection, in-sur-ek'shun, n. a rising or revolt; rebellion.

[Insurrectionary, in-sur-ek'shun-ar-l, adv. pertaining insusceptible, in-sus-sept'th], adv. insensible to feeling.

Intact, in-takt', adv. entire; uninjured.

Intagila, in-tah'yōn, a figure cut into any substance.

Intagila, in-tah'yōn, a figure cut into any substance.

Intagila, in'te'gral, adv. entire; complete.

Integral, in'te-gran, av. onestituting part of a whole.

Integrant, in'te-grant, n. constituting part of a whole or
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Integrate, in'te-grat, v. to constitute one whole or total; to renew. Integrity, in-tegrit-I, n. uprightness; honesty. Integument, in-tegru-ment, n. the external skin of

animal or plant. [ing faculties. Intellect, in tel-ekt, st. the understanding; the reason-Intellectual, in-tel-ekt u.al, adj. pertaining to the [pure reason

Intellectualism, in-tel-ekt'ū-al-izm, n. the doctrine of Intelligence, in-tel'i-jens, n. mental power. Intelligent, in-tel'i-jent, adj. mentally bright. Intelligent, in-tel'i-jent, adj. easy to understand.

Intelligent, in-tel't-jent, adj. mentally bright. Intelliginte, in-tel't-jent, adj. easy to understand. Intelligente, in-tel't-jent), adj. easy to understand. Intemperance, in-tem' per-ans, n. excess; drunkenness. Intend, in-tend', v. to purpose; to incline to. Intendant, in-tend' ant, n. superintendent; overseer. Intense, in-tense, i

Intercourse, in ter-körs, st. mutual dealings; com-Interdash, in-ter-dash', st. to intersperse. [suunion. Interdict, in-ter-dist', v. to prohibit.
Interdictory, in-ter-dist'ord, ad/, prohibitory.
Interest, in-ter-est, v. concern; payment for the use
of money; v. to arouse concern.
Interesting, in'ter-est.ng, ad/, worthy of attention.

Interfere, in-ter-fer, w. to meddle with; to interpose. Interference, in-fer-fer-ens, s. act of interfering. Interirm, in-ter-fm, s. intervening time. Interior, in-fer-for, sel, inner; s. the inside of any-Interiociacht, in-fer-ference, sel, inner; sc., the inside of any-Interiociacht, in-fer-ference, sel, inner; sc., the inside of any-Interiociacht, in-fer-ference, sel, inter-les, in-fer-ference, interiociacht, in-fer-ference, to lace together. Interiociacht, in-fer-ference, w. to insert between lines. Interiociacht, in-fer-ference, in-ference, in-fer-ference, in-fer-ference, in-fer-ference, in-fer-ference, in-fer-ference, in-ference, in-fer-ference, in-fer-ference, in-fer-ference, in-fer-ference, in-ference, in-ference, in-ference, in-fer-ference, in-ference, in-fer-ference, in-ference, in-ference, in-fer-ference, in-ference, in-fer Intertunar, in-ter-loo'ner, ad/, relating to the period of the mon's invisibility.

Intermediate, in-ter-me'diat, ad/, intervening.

Interment, in-ter'me'diat, ad/, intervening.

Interminable, in-ter'min-abl, ad/, without end.

Intermission, in-ter-mish'un, s. interval.

Intermission, in-ter-mish'un, s. interval.

Intermistant, in-ter-mish'un, d/, between walls.

Intern, in-ter', v. to confine in neutral territory.

Internal, in-ter-nal, ad/, inward.

Internacina, in-ter-nals'un-al, ad/, between nations.

Internacene, in-ter-ne'sin, ad/, mutually destructive,

Internacin, inter-ne'sin, ad/, mutually destructive,

Internacin, inter-ne'sin, ad/, mutually condes.

Internuncio, in-ter-nun'shi-o, n. papal representative at small courts. Interlunar, in-ter-loo'ner, ad/. relating to the period of

small courts. Interpolation, in-ter-pol-ā shun, n. interposition. Interpolate, in-ter-pol-āt, v. to insert words unfairly. Interpolation, in-ter-pol-ā'shun, n. what is inter-

polated. Interposal, in-ter-pô'sa' n. the act of interposing.
Interposal, in-ter-pôs', v. to step between; to mediate.
Interpreta, in-ter-pret, v. to ey plant; to translate.
Interpretation, in-ter-pre-nā'shun, ... the act of ex
plaining.
Interpreter, in-ter'pre-ter, n. one who translate, or

Interregaum, in-ter-regaum, st. time between the death of a ruler and the accession o successor. Interrogate, in-ter'o-gat, v. to question.

Interrogatory, in-terrogators, n. a question.
Interrupt, in-ter-rupt, v. to interface; to hinder; to
Interrupton, in-ter-rupt'shun, n. interference, [oppose,
Interscapular, in-ter-skap'ū-lar, ed/. between the
shoulder-blades.

Intersect, in-ter-sekt, v. to cut between.
Intersection, in-ter-sekt'shun, v. intersecting point.
Intersperse, in-ter-sekt'shun, v. intersecting point.
Intersperse, in-ter-spers', v. to scatter among.
Interstellar, in-ter-stel'ar, ad/: "inong the stars. Interstice, in'ter-stis, n. a space between things. Intertexture, in-ter-teks'tür, n. the state of being

interwoven.
Intertwine, in-ter-twin', v. to twine together.
Interval, in'ter-val, s. time between. Intervention, in-ter-ven'shun, n. an interposing.
Intervelwe, in'ter-ven'shun, n. an interposing.
Interview, in'ter-vu, n. a meeting; v. to call upon a
person and take down his views.

Interwaves, in-ter-we'v, v. to weave together. Intestable, in-test'abl, adj, not qualified to execute a intestate, in-test'abl, adj. dying without a will. [will. intestinal, in-tes' tin-al, adj. relating to the bowels. Intestine, in-test'in, a. domestic; internal.

Intestune, m-ter un, s. domestic; internal.
Inthralment, in-thraw'ment, s. act of enslaving.
Intimacy, in'tim-a-si, s. familiarity.
Intimate, in'ti-mât, s. near; familiar with. [known.
Intimate, in-ti-mât', v. to hint; to suggest; to make
Intimidate, in-tim'id-ât, v. to frighten; to make timid.
Intolerable, in-tol'er-abl, adf, insuferable.
Intolerance, in-tol'er-ans, s. lack of toleration;
blooters.

higotry, 9.
Intone, in-ton', v. to chant
Intonation, in-ton'd shun, s. infection of voice.
Intogicant, in-ton'd shun, s. that which intoxicates.
Intoxicate, in-to's'-kant, s. that which intoxicates.
Intractable, in-trakt'abl, sd/, unmanageable; unruly,

day; at; arm; eve; elk; there; ice; pin; machine; bold; pot; storm; mute; tab; barn.

Intramural, in-tra-mū'ral, ad/, within, walls.
Intramative, in-tra-mū'ral, ad/, within, walls.
Intramative, in-tra-mū'ral, v. do, not pālsing over.
Intranch, in-trechir/, w. to make treaches; to encroach.
Intrapading, in-tre-dir/ ment, w. a ditch of defence;
Intrepid, in-sepid, ad/, fearless.
Intricate, in-trin-li, a. daring; fearlessness.
Intricate, in-trin-li, ad/, complicated; obscure.
Intrigue, in-trin-li, ad/, complicated; obscure.
Intrinate, m-trin-li, ad/, real; inherent.
Introduce, in-tro-duk', w. to make known to; to bring in.
Introduction, in-tro-duk'ord, serving to introduce.
Intromission, in-tro-duk'ord, serving to introduce.
Intromission, in-tro-duk'ord, serving to introduce.
Intruspe, in-tro-duk', w. to force oneself in uninvited.
Intruspe, in-tro-o'sw, ad/, apt to intrude.
Intruspe, in-troo'sw, ad/, apt to intrude. intrustee, in-troos v. aqv. apt to intrude. Intrust, in-trust v. to give charge of, Intuition, in-tu-isivan, m. natural perception Intuitive, in-tu-iv-iv. adv. perceived by intuition. Intuise, in-tu-v. m. a bruise. Inumbrate, in-tu-v. v. to throw a sludow.

Inumbrate, in-un'Drat, v. to throw a shadow.
Inundate, in-un'dat, v. to overflow.
Inundation, in-un-da'sinu, n. a flood.
Inure, in-ür', v. to harden; to accustom.
Inutility, in-u-in'if-i, n. uselessness.
Invade, n. va', v. to oncroach upon; to enter a country as an enemy.
Invalid, in-va'id, ad, void; worthless.
Invalid, in-va'id, n. a sick person.
Invalid, ad, vide, n. a sick person.
Invalid, in-va'id, in, wanting legality.
Invalueble, in-va'id-id, n. a wanting legality.
Invalueble, in-va'id-id, ad, unchangeable.
Invasion un-va'zhun, n. hostile entrance.
Invasion un-va'zhun, n. hostile entrance. avective, in-vek'tiv, n. severe censure; sarcasm. reeigh, in v?, v. to centure; to rail.
inveigh, in ve', v. to centure; to wheedle.
Inveit, in ent', v. to centure as omething new.
"wention, m-ven'shun, v. a tl_ vg invented; a fabrica--ven'tiv, are ready in contriving. ntiv wrentor inventor, in ventori, in a list of articles.

Inventor, in ventori, in a list of articles.

Inverse, in-vers', ad/, opposite
- rt, in-vers', 'o reverse; to turn up-side down,
- rtoh av in-vers'-(-brid), ad/, without lockbone.

.t, in-vest', to lay out money; to besiege; to stigate, in-vest'i.g.it, 7: to inquire into. [clothe. In-estigation, in-vest-i.ga'shun, **, the act of ex-

arming.
Investiture, in-vest': "ir, n. a putting in possession.
Investment, un-vest'ment, n. that which is invested;

Inveteracy, in vet'er '4-si, n. obstinate persistence. Inveterate, in vet'e 'at, ad, habitual; hardened. Invidious, in rad'i-us, ad, like to call forth envy. Invigorate, in.v. or.åt. v. to strengthen.
Invigorate, in.v. or.åt. v. to strengthen.
Invigolbe, in.vio.lai, adj. not to be overcome.
Invigolate, in.vio.lai, adj. unnupred: unitampered with.
Invisible, in.vio.lai, adj. unnupred: unitampered with.
Invisible, in.vio.lai, adj. unnupred: unitampered with.
Invisible, in.vio.lai, act of inviting.
Invite, in.vio.v. or equest atterdance; to allure.
Invocation, in.vo.ki'shinn, i. prayer.
Invoice, in.vio.v. v. to summon; to implore.
Involution, in.vo.li'shinn, i. complication.
Involution, in.vo.li'shinn, i. complication.
Invulnerable, in.vulnerable, adj. unassailable; imlinwan, in.vo.li fiol.
Inviting in. or. infold.

(things. Invigorate, in-v. or at, v. to strengthen. Inwrap, n.-rap', v. to infold. [things. Inwrought, in-rawt', ad/, worked together with other Iodior, To-did, s. an iodine and metal compound. Iodine, To-din, s. a subgance madeafrom seaweed

ashes Iolite, "o-it, ". a violet-blue transparent stone.

Ionic, I-on'ik, ". relating to Ionia; ". an order of lota, ". dan ". a fot.

[architecture. Ipecacuanha, ip-e-kak-u-an'a, a South American root,

Irascible, frasTbl, ed/, irritable; easily angered.

Ire, ir, a. wrath; anger.

Irein, ir, a. wrathful.

Irein, ir, a. wrathful.

Irein, ir, a. wrathful.

Irein, ir, a. wrathful.

Iridium, iridiu Irrecoverable, ir-re-kuv cr-abl, adj. not to be reirrecoverable, ir-re-kuv cr-abl, adj. not to be re-covered. Irredecemable, ir-re-disvibl, adj. not to be redeemed. Irreducible, ir-re-disvibl, adj. that cannot be reduced. Irrefragable, ir-refra-ga-bl, adj. indisputable. Irrefutable, ir-refra-ga-bl, adj. indisputable. Irrefutable, ir-refra-ga-bl, adj. indisputable. Irrefragular, ir-regra-lar, adj. variable; not according to Irregularity, ir-regra-lar ir-l, n. the state of being irregular. Irregularity, ir-reg-u-larit-i, n. the state of being irregular.

Irrelevancy, ir-rel'e-vand, n., the state of being apart from the question.

Irrelevant, ir-rel'e-vant, ad/, not relevant.

Irreligious, ir-re-in'e di-abl, ad/, without remedy.

Irremissible, ir-re-me'di-abl, ad/, without remedy.

Irremissible, ir-re-predi-abl, ad/, beyond repair.

Irreprasable; ir-re-predi-abl, ad/, beyond repair.

Irreprasable; ir-re-procl'abl, ad/, free from blame.

Irreprasable; ir-re-procl'abl, ad/, free from blame.

Irreprasable; ir-re-procl'abl, ad/, recapable of restrictions, irrep-tish usable, adv. encroaching.

Irrespective, ir-re-spective, ad, without regard.

Irrespective, ir-re-spective, ad, without regard.

Irrespective, ir-re-spective, ad, without regard.

Irretrievable, ir-re-viewibl, ad/, not answerable for;

Irretrievable, ir-re-viewibl ad/, unchangeable.

Irreversible, irre-versibl ad/, unchangeable.

Irrigate, ir-registon, ad/, beyond revocation.

Irrigate, ir-registon, ad/, setting cultivable lands.

Irritant, ir-rit-ant, n. that which irritates.

Irritant, ir-rit-ant, n. that which irritates.

Irritant, ir-rit-ant, n. that which irritates.

Irruption, ir-repressum, n. a bursting in. Irritate, irritant, s. that which tritates. Irritate, irritatir, v. to annoy. Irruption, irrup'shun, s. a bursting in. Irruption, irrup'shun, s. a bursting in Isagon, s. a figure of equal angles. Ischial, is'kical, adj. pertanning to the hip. Ishmaelite, ish'ma-lit. s. an outcast. Isinglass, Faing-plas, s. notas. Isinglass, Faing-plas, s. notas. Islamism, irlam-lzu, s. Mahommedanism. Islamism, irlam-lzu, s. land surrounded by water. Saland, Fland, a. and surrounded by water.

Islet, Flet, n. a small island.

Isochronous, I-sok'ro-nus, adj. equal in time.

Isolate, is'o-lat, or 'so-lat, v. to set apart; to detach.

Isolation, is-o-la'shun, n. the act of isolamin.

Isolaton, is-o-la'shun, n. the act of isolamin.

Isolaton, is-ola'shun, adj. of like elements but different

Isocheric, Iso-ner'ik, adj. of like elements but different

Isocheric, Iso-ner'ik, adj. of like elements (hurcoerties. auguous, 1-sor gus, a44, in like proportion.

Isofheric, Iso-mer'ik, a44, of like elements but different
Isonomy, I-son'o-mi, n. equality.

Isothermal, I-so-dier mal, a44, possessing equal heat.
Issue, ish'd, v. to flow; to proceed from; n. progeny.

Isthmian, is' mi-an, a44, pertaining to an ushmus.

Isthmian, is' mi-an, a44, pertaining to an ushmus.

Isthmian, is' mi-an, n. a neck of land.

Italicize, I-tal'isk, n. inclined letters.

Ich, ich, v. to have skin rritation; n. a skin disease.

Item, Ptem, n. a distinct particular.

Itemation, ii-er-d'shun, n. the act of repetition.

Itimerant, ichin'er-ant, n. a wanderer.

Itimerant, ichin'er-ant, n. a wanderer.

Itimerant, i-thin'er-ant, n. a wanderer.

Itimerant, i-thin'er-ant, n. a proceed with v.

Itimerant, i-thin'er-ant, v. to proceed from place to place.

Ivied, Ivid, a44, covered with ivy,

Ivory, Y. verd, n. elephant's tusk.

Ivy, I'vi, s. an evergreen creeping plant.

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Jobbery, job'er-l, s. fraudulent methods.

Jockey, jok'i, s. one who rides racehopses.

Jocoes, jo-k'is', s. one who rides racehopses.

Jocolar, joh'o'-lar, sel', sportive.

Jocular, joh'o'-lar, sel', sportive.

Jocular, joh'o'-lar, sel', sportive.

Jodel, b'del, s. to sing falsetto.

Jog, s. to shake.

Joge, bo'l, s. to shake; to jostle.

Jog-trot, jog'trot, s. a humdrum pace.

Johnsoneses, john-son-ër', s. the style of Dr. Johnson-

Join, join, s. to unite.

Joiner, join'er-l, s. the joiner's art.

Joint, joint'er-l, s. the joiner's art.

Joint, joint'i, s. a, to to the joiner's art.

Joint, joint'i, s. a, to to the joint'i held.

Jointur, joint'in, s. a, to poetry settlet on a woman on

Joist, joist, s. a jest; v. to lest.

Jollification, Jol-i'lak's'shun, s. festivity.

Jollity, Jol'it, s. s. bisterous mirth.

Jolly, jol'it, s. s. in merry.

Jollyboat, jol't-bot, s. a small boat or yawl.

Joit, jolt, v. to shake jerkly.
    Jabber, Jab'er, v. to chatter.

acinth, Ja'sinth, w. a precious stone.

Jack, Jak, w. a pike; a spit rumer; a playing card.

Jackanapes, Jak'a-nips, w. an impudent fellow.

Jackanapes, Jak'a-nips, w. an impudent fellow.

Jackase, Jak'a-nips, w. an impudent fellow.

Jackase, Jak'a-nips, w. an impudent fellow.

Jackase, Jak'a-nips, w. a bird.

[knee.

Jackaser, Jak'er, w. a short coat.

[objects.

Jackaser-w, jak'skroo, w. a sopew for moving weighty

Jacobite, Jak'o-bit, n. an adherent of the Stuarts.

Jacquerie, Jak'er-bit, w. French peasants' revolt of 1358.

Jack, Jack, w. a notch.
  otting, jot ing, s. a note or memorandum.
oule, jool, s. a unit of electrical energy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Joule, job. ng. x. a inter of neurorandum.

Joule, job. n. a unit of electrical energy.

Jounne, jurnal, v. a record.

Journalism, jurnal-su. n. the journalistic profession.

Journalism, jurnal-su. n. a writer on the Press.

Journey, jurnal, v. a writer on the Press.

Journey, jurnal, v. to travel.

Journeyman, jurnal-man, n. a qualified hired work-

Journeyman, jurnal-man, n. a qualified hired work-

Journeyman, jurnal-man, n. a toulistic workinghts at a

Jorial, jo'vial, ad, murthful.

Jovel, n. the cheek.

Joy, joi, n. exultation; gladness.

Jubaie, joo'bit, ad, d. n. byous.

Jubilant, joo'bit, and, d. poyous.

Jubilant, joo'bit, and, d. poyous.

Judaies, joo'did-iz, v. to bring into conformity with

Jewish ideas.

Judaiem, joo'did-iz, v. to bring into conformity with

Jewish ideas.

Judaiem, joo'did-iz, v. to bring into conformity with

Judaiem, joo'did-iz, v. to bring into conformity with

Judaiem, joo'did-izm, n. Jewish doctrines.

Judea, juy, n. on ewho passes judgenet, in law cases;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Judean, Joo-dè-an, m. a native of Judea; ad; relating to Judean, Joo-dè-an, m. a native of Judea; ad; relating to Judea, Jud; no ne who passes judgment in law cases; one who decides in a dispute; v. to decide. Judgeahlp, juj'ship, n. the office of judge. Judgment, juj'enti, m. taste; a judicial decision. Judicable, Joo'dik-al, ad; capable of being tried. Judicatory, joo'dik-al-tūr, n. the power of dispensing Judicial, joo'dik-al-tūr, n. the power of dispensing Judicial, joo-dish'un, ad; relating to the law. Justice. Judicious, joo-dish'un, ad, relating to the law. Justice. Judicious, joo-dish'un, ad, reactoring to right judgment. Jug. n. a vessel for holding liquors; the nightingale's Jugal, joo-gal, ad; malar.
Juggle, jug'ler, n. one who juggles; a conjurer. Juggler, jug'ler, n. one who juggles; a conjurer. Jugglery, jug'ler, n. one who juggles; a conjurer. Jugglery, jug'ler, n. a ven in the neck.
Juce, Joos, n. sap, Justinian.
         eremiad, jer-e-mrad, n. a lamentation.
erk, n. to pull or throw suddenly.
erkin, perkin, n. a short coat. [filmsy structures,
erry-builder, jer-bild-er, n. a builder of cheap and
less, n. a strap for holding a hawk's legs.
esse, jes-sī, n. a large branched candlestick.
est, jest, n. a joke; v. to make fun of.
            ester, jest'er, n. a maker of jests.
estingly, jest'ing-li, adv. jocosely.
esuitical, jez-ŭ-it'ik-al, adj. crafty.
            esus, jē'zus, n. the Saviour. [gas bracket.
et, n. a black fossil substance; a spout of water; a
Jesus, J. Zus, n. the Saviour. Jesus, Je'zus, n. the Saviour. Jet, n. a black fossil substance; a spout of water; a Jetaam, Jet'sam, n. floating wreckage. Jetton, jet'on, n. a stamped metal counter. Jetty, jet'i. n. a small pier. Jew, joo, n. a Hebrew.
Jew-baiting, joo-bif'ing, n. persecution of Jews. Jeweller, joo'el-er, n. a dealer in jewels. Jeweller, joo'el-er, n. a dealer in jewels. Jewellery, joo'el-ri, n. jewels in general. Jewry, joo'ri, n. a jewish quarter. Jew's-harp, Joo'erharp, n. a small musical instrument played between the teeth by striking a spring. Jesebel, jer'e-bel, n. a virago. Jib boom, n. the beam on which the jib is fixed. Jib boom, n. the beam on which the jib is fixed. Jil, n. a dance. Jit, Jil, n. a cancuette. Jinge, jing n. a dance. Jil, Jil, n. a coquette. Jinge, jing n. a dance. Jinge, jing n. a headstrong politician. Job n. a piece of work; v. to hire. Jobber, Job'er, n. a dealer in stocks.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          jugular, juguar, n. a ven in the neck, juice, joo, n. sap juicy, joo'st, adf. full of juice, joo, n. sap juicy, joo'st, adf. full of juice, joo, n. sap juicy, joo'slop, n. a kind of spring shrub; a sweet-lilep, joo'lep, n. a sweet drink. [neat. jump, v. to leap, jump, v. to mix confusedly, jump, v. to leap, jump, v. to joo jump, jump, jumpk, jum, n. a joining, juncture, jumpk, tim, n. a critical time, jungte, jumpk, in, thick forest. jumio, joo'ne, ad, younger, jumiper, joo'ne, n. a shrub and its berry, jumiper, joo'ne, n. a shrub and its berry, jumk, jungk, 1. old ropes, hard salt beef; Chinese ship, junker, jungk'er, n. a young German noble.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Junker, jungk'er, s. a young German noble.
Junket, jungk'er, s. a sweetmeat; a pic-nic.
Junta, junt'a, s. Spanish Counci; of State.
Junto, jun'to, s. a confederacy.
         ob, n. a piece of work; v. to mre.
lobber, job'er, n. a dealer in stocks.
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Jupon, joo'pon, n. a sleeveless jacket. Juridical, joo-rid'ik al, adi, relating to law admission. Jurisconsult, joo-ris-kon'sult, n. a jurist. Jurisdiction, joo'ris-dik'shun, n. the district within Jurisdiction, Joo'ris-dik'shun, u. the district within which ascount has power.

urisprudence, Joo-ris-proo'dens, n. science of the law.

urist, Joo'rist, n. one versed in civil law.

uror, Joo'ro, n. one of a jury.

ury, joo'ri, n. a body of men to judge a cause.

uryman, Joor'i-man, n. a member of a jury.

urymant, Joor'i-mast, n. a temporary mast.

ury-rudger, joo'ri-ud-e, n. an extemporised rudder.

justice, just'is, n. impartiality: equity; a magistrate,

usticean, just'is, n. impartiality: equity; a magistrate,

justice, just'is, n. impartiality: equity; a magistrate,

justice, just'is, n. one who administers

justice. justice, just-i-fi'abi, adj. that can be justified; justification, just-ifi'ki-a'shun, n. defence; vindication, justify, jus'ti-fi, v. to vindicate.

just, v. to project. ut v. to project. inte, joot, n. a coarse kind of hemp. invense, joo-ven-cs'ens, n. youthfulness. invenile, joo'ven-il, n. a youth; ad/, youthful. inxtaposition, juks-ta-po-zish'un, n. contiguity.

Kaleidoscope, kal-l'do-skôp, n. an optical toy.
Kamptulicon, kamp-til'li-kon, n. a kmd of floor-cloth.
Kanaka, kan-3'ka, n. a native of, the Sandwich
Kaolin, kā'o-lin, n. a very fine clay. [Islands.
Katydid, kā't-did, n. a kind of grasshopper
Keel, kcl. n. the lower timber of a ship. ([American].
Keel-haul, kcl'hawl, n. to baul under keel by ropes;
a form of naval punishment.
Keelson, kêl'son, n. an mier keel. a form of naval punsiment.

Keelson, kél'son, n. an marc keel.

Keen, kén, at/s eager; alert; pungent; acute.

Keep, kép, v. to retain; to last.

Keeper, kép'er, n. ane who guards.

Keepsake, kép'sák, n. a gift of regard.

Keg, n. a small cask.

Kelp, n. seawecd.

Kelp, n. a fancied spirit of the water.

Ken, ken, v. to know. Ken, ken, v. to know. Kennel, ken'el, n shelter for a dog. Kerasine, ker'a-sen, adj. made of horn. Refrasine, Ker'a-Sen, arth. made of norn. Kerbstone, see Curbstone. Kerchief, ker'chif, n. a small loose shawl. Kern, kern, n. the last sheat of the harvest. Kernel, ker'nel, a grain; a seed within a shell. Kerosene, ker'o-sen, n. coal oil. Kersey, ker'sf, n. a kind of woollen cloth. Kastrel, kes'trel, n. a kind of falcon. Kestrel, Res trei, n. a kind or tercon.

Ketch, n. a two-masted vessel. [may
Ketchup, ketch'up, n. a flavouring mad
Kettle, ket'l, n. a vessel for bolling lighds m.

Kettle-drum, ket'l-drum, n. a kind of drum.

Kex, keks, n. hemlock stalk.

Kew k m instrument for opening or c Imashrooms. made from Rex, kex, w. nemiock stark.

Rey, ke, m. an instrument for opening or closing a lock; centre stone; fundamental note or composition.

Reyboard, ke'bord, m. the keys of a piano or organ.

Reynote, ke'not, m. the fundamental note of a musical thaki, ke'li, m. dust-coloured uniform. [composition. Khaki, ka'ki, s. dust-coloured uniform. [composition. Khan, kan, s. an Asiatic chef. Khanate, kan'at, s. the territory of a khan. Kibe, kib, s. a chibbain. Kibe, kib, s. a chibbain. Kick, kik, s. to give a blow with the foot; s. the blow Kickshaw, kik'shaw, s. something fanciful. [itself. Kid, s. a young goat; kid leather. Kidling, kid'ling, s. a young kid. Kidnap, kid'nap, s. to carry off a human being. Kidnapper, kid'nap-er, s. one who kidnaps. Kidnapper, kid'nap-er, s. one who kidnaps. Kidnapper, kid'nap-er, s. an ewho kidnaps. Kidnapper, kid'nap-er, s. an ewho kidnaps. Kidnapper, kid'nap-er, s. a boomerang. Kilderkin, kil'der-kin, a a small baugel. Killey, k'le, s. a boomerang. Kill, kil, s. to slay it on unlify. Kila, s. an ovga for making lime, bricks, etc. a Killo, k'lo, s. k large oven. [Highlander's dress. Kill, kilt, s. a short petticoat forming gart of a

Rimbo, kim'bō, adj. bent; arched.
Kin. n. findred.
Kin. findred.
Kin Kinematics, kin-6-mat'lka, n. the science of motion.
Kinetic, ki-net'ik, ad/, moving. [nection.
Kinetics, kin-et'ika, n. the science of force in conKinetics, kin-et'ika, n. the science of force in conKinetics, kin-et'ika, n. the science of science of science of the scienc Kipskin, kipskin, w. calf-sku.

Kirk, kirk, w. a. church (Scotch),

Kirtle, kir'll, a kind of gown; a mantle.

Klas, kis, v. to salute with the lips; n. the act of

kitsing. Kit, n. a workman's outfit of tools.

Kit-cat, kit-kat, n. a size of portrait (36 × 28 inches)
so-called after the portraits done by Kneller for Socialist after the partials done by Kilchen, the Kirchen, n. place where food is cooked. Kitchener, kirchener, n. a cooking stove. Kitch, kir, n. a bird of prey; a flying toy. Kitch, kindred. Rith, n. kindred.

Kitthen, kit-en, n. a young cat.

Kitten, kit-en, n. a young cat.

Kitten, kit-en, n. a young cat.

Kinang, n. a confused tolle.

Kleptomania, klep-to-mid'ni-d, n. a morbid impulse to klick, kik, n. a sharp catching noise.

Kick, hik, n. a sharp catching noise.

Kinab, nab, v. to seize hold of.

Knacke, nak, n. adroitness; special aptitude.

Knacken, nake, n. a droitness; special aptitude.

Knacken, nake, n. a konte.

Knap, nap, v. to break.

Knappsack, nap'sak, n. a soldier's provision bag.

Knapsack, nap'sak, n. a helmet.

Knarled, nar'ld, naf, knotty.

Knave, nay, n. a scamp: a playing card.

Knaveny, na'ver-i, n. villamy.

Rnead, ned, v. to work and press.

Knee, ne, n. the joint between the leg and thigh. Knee, ne. s. the joint between the leg and thigh. Kneel, nel, v, to bend the lenee. Kneel, nël, v. to bend the knee.

Kneepan, në pan, n. a round bone at the knee; he

Knell, nel, n. the sound of a funeral bell. [patella.

Knickerbockers, nik'er-bok-ers, n. short trousers,

gathered in at the knee.

Knick-knack, nick'nak, n. a trifling object.

Knije, nif, n. a cutting instrument.

Knight, nit, n. a champion; the rank next below

laronet, entilling the owner to be called "Sir."

Knight-errant, nit-erant, n. one who travelled in quest

of adventures in olden times.

Knight-don, nit hood, n. the dienity of a knicht of adventures in order times.

Knighthood, nithood, n. the dignity of a knight. Enight-marshal, nit-mar shal, n. a royal offi Knight-marsnai, nit-mar snai, n. a land tenure based on Knoi, noi, s. a smait round mit.
Knop, no, s. a nob or cluster;
Knot, not, s. a group; a bunch; a cluster; a tie.
Knot, not, s. a grass with knotty stems.
Knotty, not', s.d.; abounding in knots; difficult.
Knotty, not', s.d.; abounding in knots; difficult.
Knotty, not', s.d.; anony work formed of knots.
Knott, nowt, s. a Russian whip of punishment.

Know, nö, v. to understand; to perceive.

Rnowingly, no ing. ii, adj. intelligently.

Rnowingly, no ing. ii, adj. intelligently.

Rnowledge, no i e. i. s. learning; information; instruc
Rnub, nub, s. a knob.

Rnuckle, null, s. joint of a finger.

Knurr, nur, s. a wooden ball.

Kodak, kö (dak, s. a small camera.

Koran, kö'ran, s. the Mahommedan Bible.

Koumfas, koo'mis, s. an intoxicating beverage made

from mare's milk fermented.

Kraal, kral, s. a Hottentot village.

Kremlin, kremlin, s. imperjal palace at Moscow.

Kyanise, k'an-iz, v. to protect wood by means of

corrosive sublimate.

Kylois, k'il-io'ss, s. club-foot.

Kylois, k'il-io'ss, s. club-foot.

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Labarum, lab'a-rum, n. Roman imperial standard.
Label, la'bel, n. a slip for name or description.
Labellum, la-be'um, n. the lower portion of a petal.
Labial, la'bl-al, n. a lip consonant; adj. relating to the lips.
Labodental, la-bi-o-dent'al, adj. of sound produced
Lab'um, la'bi-um, n. a lip.
Laboratory, la-bor'ato ri, n. a chemist's workshop;
place for scientific experiments.
Laborup, la-bo'r-us, adj. with diligence; tollsome.
Labour, la'bor, n. toil; exertion.
Labouret, la'bor-er, n. one who works with his hands.
Laburnum, la-burn'um, n. a tree that bears clusters of yeilow flowers.
Labyrinth, lab'-rinth, n. a maze; a place of many Labyrinthlan, lab'-rin'th'an, ad' maze-like; winding.
Lac, lak, n. a resmous substance; 100,000 ripsets. Lac, lak, m. a resimous substance; too,000 ripces.
Lace, lak, m. a resimous substance; too,000 ripces.
Lacerate, las effecte ret-work; a string or fastening.
Lacerata, las-effa, m. a class of Saurian reptiles
Laceratian, las-effan, ad; pertaining to lizards.
Lachet, lash'ez, m. negligence; delay,
Lachymar, lak'fi-mā-rī, ad, containing tears.
Lachymary, lak'fi-mā-rī, ad, sertilu.
Lacing, lās'ing, m. a laced fastening; a lace.
Lack, lak, v. to want.
Lackada, lak'fi, m. a evile attendant;
Lackada, lak'fi, m. a evile attendant;
Lacerati, lak'fi, m. a evile attendant;
Laconism, lak'fi, m. a evile attendant;
Laconism, lak'fi, m. a evile attendant; Laconism, lak'on-ıznı. n. a concise style. Kacquer, lak'er, n a kind of varnısh. bacquet, tak er, w a sint of variasis. Lacqueter, lak'eret, w a worker with lacquet. Lactate, lak'fat, s. in the condition of growing milk. Lacteous, lak'te-us, azi, persuning to milk. Lactiferous, lak'te-us, azi, producing milk. Lactometer, lak-tom'e-ter, n. a milk-measuring in-Lactone, lak'tōs, adj. milky. Lacuna, la-ku'na, n. an hiatus. Lacustrine, la-ku's'trin, adj. relating to lakes. Lacustrine, as-tus trin, aap, relating to takes.
Lad, lad, n. a boy.
Ladder, lad'er, n. a means of ascent.
Lade, lad, v. to load; to throw out.
Laden, la'dn, aap, loaded.
Ladle, la'dl, n. an implement for lifting liquid.
Ladle, la'dl, n. an implement for lifting liquid.
Lady, la'dl, n. a female of rank or position. Ladle, la'dl, n. an implement for litting uqua.
Lady, la'dl, n. a female of rank or position.
Lag, lag, v. to linger.
Lager-beer, lag'erder, n. light German beer.
Lager-beer, lag'erder, n. light German beer.
Lagerand, lag'erd, ad/. slow; loitering.
Lageon, lagoon', n. a shallow lake.
Laical, la'ik-al, ad/. pertaining to the laity.
Lair, la', n. resting-place; retreat of wild animals.
Laird, la'rd, n. a Scottish chief, or landed proprietor.
Lairdiship, la'd ship, n. the estate of a laird. [clery, laity, la'tl, n. the people, as distinguished from the
Lake, lak, n. a body of water surrounded by land.
Lamel, la'ik-let, n. a mail lake.
Lame, la'ma, n. a Buddhist head priest in Tibet.

Lamb, lam, s. a-goung sheep.
Lambent, lam'bont, sqf, flickering.
Lambent, lam'bont, sqf, flickering.
Lambein, lam'kin, s. a small lamb.
Lame, lim, sqf, hait or crippled.
Lamelin, is. actin plate or scalt.
Lament, liment', s. a thin plate or scalt.
Lamentable, lam'ent-abl, sqf, sorrowing.
Lamentable, lam'ent-abl, sqf, sorrowing.
Lamentable, lam'ent-abl, sqf, sorrowing.
Lamina, lam'ent-a'shun, s. the act of sorrowing.
Lamina, lam's, s. a thin plate; a leaf-blade.
Lamina, lam'en, s. actin plate; a leaf-blade.
Lamina, lam'en, s. a swelling in a horse's mouth.
Lamina, lam'en, s. a swelling in a horse's mouth.
Lamina, lam'en, s. astire; skit. Lampbuck, [amp'blak, s. soof from lamp smoke.
Lampon, lam-poor, s. satire; skit.
Lampon, lam-poor, s. satire; skit.
Lampon, lam-poor, s. satire; skit.
Lamben, lam-poor, s. satire; skit.
Lamben, lam-poor, satire, lam-poor, long-handled.
Lamce, lams, s. a pointed weapon; long-handled.
Lamce, lams, s. a pointed weapon; long-handled.
Lamce, lams, s. a pointed weapon; long-handled.
Lamce, lams, set, s. a surjecal knife. [lance-heads.
Lamd, s. the solid surface of the earth.
Lamdau, lam'daw, s. a kind of ceach.
Lamdau, lam'daw, s. a subsidence or slipping of ground.
[priator of real estate.
Lamdzrabber, land-grab'er, s. an unscrupulous approground. [priator of real estate, Landgrabber, land-grab'er, m. an unscrupulous approLandlady, land'id-di, m. a woman innkeeper or land
Landlock, land'id-w, v. to enclose by land. [owner, Landloper, land'id-per, m. a vagrant wanderer.
Landlord, land'ia-wrd, m. landowner; inn-keeper.
Landmark, land'mark, m. a boundary mark; an elevated object.
Landsware, land'owner, m. a proprietor of real estate.
Landswape, land'skäp, m. a land view. [sea-farers.
Landshark, land'shark, m. one who essays to cheat
Landalip, land'slip, m. a slipping down of land.
Landsman, lands' man, m. one who lives on land.
Landsward, land'werd, adt towards the land.
Lane, lin, m. a narrow road. Lane, lin, n. a narrow road. Language, lang wai, m spreech.
Language, lang gwil, ad, feeble; sluggish.
Languid, lang gwil, ad, feeble; sluggish.
Languidh, lang gwish, v. to pine.
Languor, lang gwer, m. lassitude.
Lank, ad, ling; thin; thin; loose; weak.
Lankness, lang lang a protected band loos antern, anivern, n. a protected hand lamp; a roof-anuginous, lan-d'jin-us, adj. downy. anyards, lan'yards, n. ship's ropes. aodicean, la-o-di-se'an, adj. lukewarm in religion. Lanyards, inn'yards, m. ship's ropes.

Laodicean, la'o-dise'an, ade, lukewarm in religion.

Lao, lap, n. upper part of the legs of a seated person;

v. to overspread.

Lapiclape', m. the fold of a garment.

Lapiclape', m. the fold of a garment.

Lapiclape', m. the fold of a garment.

Lapiclape', n. the fold of a garment.

Lappet, lap'er, m. one who laps or enfolds.

Lappet, lap'et, m. alittle flap.

Lapse, lap's, v. to pass slowly; to slide. [beat leather.

Lapse, lap's, v. to pass slowly; to slide. [beat leather.

Laputan, lap'tinn, ad, v. ory small; from Calliver's

Lapwing, lap'wing, n. the peewit.

Larboard, laf'both, n. port side of a ship.

Larcapy, laf'sen-1, n. theft.

Larde, laft'er, n. place where provisions are kept.

Large, larder, n. the owner.

Larges, larder, n. the present.

Larges, larder, n. a present.

Larya, larder, n. a present.

Larya, lard'er, n. place where provision are kept.

Larya, lard'er, n. hase the organ of voice.

Larya, lard'er, n. a step of voice.

Lasard, lasa'er, n. a meast Indian sallor.

Lasard, lasa'er, n. a special control lasard, las Latchet datch'et, s. a shoe string.

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Late, ikt, ad/, tardy; departed.

Latem, ia-tim', so, a triangular sail, a loisted obliquely.

Latemt, ia'tent, ad/, hidden.

Lateral, ia'tent, ad/, hidden.

Lateral, ia'tent, ad/, hidden.

Lateral, ia't, so, a thin strip of wood.

Lath, iath, so, a thin strip of wood.

Lath, iath, so, a thin strip of wood.

Lather, iath'er, so, foom; w. to foom.

Lating, ia'th'er, so, one learned in Latin.

Latinites, ia'th-ist, so, one learned in Latin.

Latinutian, ia'th-is', so, width; distance from the

Latitudinal, iat-i-t'din-a', ad/, possessing latitude.

Latinutianian, iat-i-t-din-a', rath, ad/, free; unre-

strained in views.

Latria, ix'tip', so, the highest worship. [building.
                                                                                                                                                                                                                                                                                                                                                                                                                              Leaseholder, les hold-er, s. one who occupies under
                                                                                                                                                                                                                                                                                                                                                                                                                                  Leash, lish, s. a leather thong; three animals.
Leash, lest, sql, smallest in size, value or importance.
Leather, leth er, s. tanned hide.
                                                                                                                                                                                                                                                                                                                                                                                                                                      eathern, leth'ern, salf. composed of leather.

eave, lev, v. to discard or depart from; s. a term of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rmissive absence.
                                                                                                                                                                                                                                                                                                                                                                                                                                      eaved, levd, adj. provided with leaves.
eaven, lev'en, n. yeast.
                                                                                                                                                                                                                                                                                                                                                                                                                            Leaven, ev'en, n, yeast.

Leaven, ev'en, n, yeast.

Leaven, ev'en, n, yeast.

Lecher, lech'er, n, a levd person.

Lecher, lech'er, n, a levd person.

Lecherous, lech'er-us, adj, lustful.

Lecteron, lech'er-us, adj, lustful.

Lecteron, lech'shun, n, a reading.

Lecton, lech'shun, n, a reading.

Lecture, lek'shun-er-l, n, a book for use in public Lector, lek'shun-er-l, n, a book for use in public Lecture, lek'shun-er-l, n, a book for use in public Lecture, lek'hun, n, a scount book.

Ledger, lejer, n, an account book.

Ledger, lejer, n, a seriment.

Lee, le, n, a dregs; settiment.

Lee, le, n, a count of record.

[blows.
  strained in views.

Latria, latria, n. the highest worship. [building.

Latrine, latrin, n. place of convenience in a large

Latten, laten, n. iron plate covered with tin.

Latter, lat'se, n. den plate covered with tin.

Latter, lat'se, n. open plate covered with tin.

Lattice, latvis, n. open work of cross bars.

Lattice-work, lat'is-werk, n. same as lattice.

Laud, lawd, v. to praise.

Laudale, lawd'able, ad/, praiseworthy.

Laudanum, lawd'a-num n. tincture of opium.

Laudanum, lawd'a-to-ri, ad/, praising.

Laugh, laft, v. to make a merry sound; to be mirthful.

Laugh ble, laft@bl, ad/, comical.

Launch, lawnch, v. to send forth; n. a large boat.
                                                                                                                                                                                                                                                                                                                                                                                                                              Leet, let, n. a court of record.

Leet, let, n. a court of record.

Leeward, le'werd, ad/. towards the lee.

Leeway, le'wā, n. a movement towards the lee.

Lee, n. a pedal lumb; a support.
      Laughable, láfabl, adf. comical.
Launch, lawnch, v. to send forth; w. a large boat.
Launch, lawnch, v. to send forth; w. a large boat.
Laundres, lawn'dif, m. a wash-house.
Laureate, law'fe<sup>3</sup>t, m. the court poet; one decked
Laurel, law'rel, m. a shrub. [with laurel.
Lawa, lâ'va, m. molten matter ejected from a volcano.
Lawa, lâ'va, m. wolten washing.
Lawe, lâv, v. to wash or bathe.
Lawender, law'en-der, m. a sweet-scented plant.
Lawender, law'en-der, m. the lark.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Legacy, leg'd-si, n. a bequest.
Legal, le'gl, adj. conforming to law.
Legalize, le'gal'iz, v. to render lawful.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Legality, ic.galfit., n. lawfulness.
Legate, leg'at, n. an ambassador.
Legate, leg-ā-tc', n. the recipient of a legaty.
Legatine, leg-ā-tcn', adjapertaining to a legate.
                                                                                                                                                                                                                                                                                                                                                                                                                                    egation, le-ga'shun, n. an embassy.
egato, le-ga'to, adj. smooth (muss.)
egend, le'jend, n. a story; a motto.
eger, lej'er, adj. light; small.
Laver, la'ver, m. a wash dish.

Laverock, lav'er-ok, m. the lark.

Lavish, lav'es, a.d. wasteful.

Law, law, m. a rule or ordinance, authoritatively

Law, law, m. a rule or ordinance, authoritatively

Law, law, ful, a.d., legal. [imposed and binding.

Law, law, m. fine linen; a grass plot.

Lawauit, law'sūt, m. a suit in law.

Law, law'sūt, m. a suit in law.

Law, laks, a.d. flabby; soft; not firm.

Lax, laks, a.d. flabby; soft; not firm.

Lax, laks, a.d. flabby; soft; not firm.

Laxity, laks'it-l, m. looseness.

[tive song.

Lay, la, v. to place prone; a.d.; unclerical; m. a narra-

Lay-brother, la'bruth-er, m. an unprofessional clerical

Layer, la'er, m. a stratum.
                                                                                                                                                                                                                                                                                                                                                                                                                                Legend, if jend, n. a story; a motto.
Leger, iej'er, adr. light; small.
Legerdemain, iej-er-de-mān', n. sleight of hand.
Legerging, leg ing, n. a leg covering.
Legible, iejhol, adr. readable.
Legiona, iejhon, n. a great number; a body of soldiera.
Legionary, iej'inn-art, adr. relating to legions.
Legislate, iej-is-lā'tv, to make laws.
Legislation, iej-is-lā'tv, n. enacting laws.
Legislative, iej-is-lā'tv, n. enacting laws.
Legislative, iej-is-lā'tv, n. a body of law-makers.
Legislature, iej-is-lā'tu, n. a body of law-makers.
Legislature, iej-is-lā'tu, n. a body of law-makers.
Legislature, iej-it'im-is, n. a lawfulness.
Legitimacy, ie-jit'im-is, n. a supporter of legitimate.
Legitimise, ie-jit'im-is, n. a supporter of legitimate.
Legitimise, ie-jit'im-is, n. a supporter of legitimate.
Legitimise, ie-jit'im-is, n. a supporter of legitimate.
Legumn, leg'um, n. a pod, as of peas.
Legumnous, leg'um-in-us, adr. legume-bearung.
Lesunn, lem'an, n. a mistress.
Lemma, lem'an, n. a mistress.
  Layer, lifer, m. a stratum. [assistan Layer, lifer, m. as tratum.] Layette, lifer, m. as infant's outfit. Layent, lifer, m. an infant's outfit. Layman, lifer, m. an eff the laity. Lazar, lifer, m. a person with a pestilential disease. Lazaretto, laz-i-refto, m. a hospital; a pest-house.
                                                                                                                                                                                                                                                                                                                           [assistant.
  Lazy, la'zi, adj. indolent.
Lea, le, n. a field.
    Lea, i.e., a. field.

Leach, liech, m. the edge of a ship's sail.

Leach, liech, m. the edge of a ship's sail.

Lead, leid, m. a soft grey metal.

Lead, leid, m. to direct or precede.

Lead, leid, m. one of the external parts of a plant or

tree; a division of a flat body, as the leaf of a book,

Leaf, leif, m. one of the external parts of a plant or

tree; a division of a flat body, as the leaf of a book,

Leady, leif, act, full of leaves.

Leady, leif, act, full of leaves.

Lead, leig, m. an alliance; three miles.

Leak, leik, m. to ouse out; m. a crack that lets out

Leak, leik, act, having leaks.

Leak, leik, act, act, having leaks.

Leak, leik, act, having leaks.

Leak, leik, act, having leaks.
                                                                                                                                                                                                                                                                                                                                                                                                                        Leman, lien'an, n. a mistress.

Lemma, lem'an, n. a mistress.

Lemman, lem'an, n. a mistress.

Lemming, lem'ing, n. he Norwegnan rah.

Legnon, lem'on, n. he Norwegnan rah.

Legnon, lem'on, n. he Norwegnan rah.

Legnon, lem'on, n. a species of Madagascar monkey.

Lemura, le'nur, n. a species of Madagascar monkey.

Lemura, lem'urêz, n. spectres.

Lend, v. to grant on loan.

Lenity, lem'thi, n. de', of great length; longish.

Lenity, lem'thi, n. gentleness; unercy; mildness.

Lenity, lem'thi, n. gentleness; unercy; mildness.

Lenity, len'thi, n. gentleness; unercy; mildness.

Lent, lent, v. a fast before Easter.

Lenten, lem'te, n. de', pertaining to Lent; scanty.

Lenten, lem'te, n. de', pertaining to Lent; scanty.

Lenten, len'ti, n. a pulse-bearing edible plant.

Lentiak, len'tisk, n. mastic-tree.

Leatous, len'tisk, n. mastic-tree.

Leatous, len'tisk, n. mastic-tree.

Leatous, len'tisk, n. mastic-tree.

Leatous, len'tisk, n. aspotted wild animal.

Cohner, ledd't n'dt; stêrrn, mistar, hith been.
Lean, ien, sa, cord by which to lead a dog.
Lean, ien, s. a cord by which to lead a dog.
Lean, ien, s. to incline; ss/, meagre; not fat; poor.
Lean, ien, s. to spring up or away from a base.
Lean, pear, ien'yer, s. every fourth year which has one more day than others.
Learn, len, s. to acquire knowledge.
  Learner, ben'er, n. one who is learning.

Learner, ben'er, n. one who is learning.

Learning, lern'ing, n. scholarship; knowledge.

Lease, des, v. tô let for hire; n. a tenure of land or
                          other property.
                  dāy; šīt; šīrm; šve; šīk; thère; šce j.pin; machine; böld; pöt; stôrm; mūte; tüb; būra.
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PEARS' CYCLOPAEDIA.

Lepar, lep'er, n. a person afflicted with leprosy.

Lepidoptera, lep-id-op'ter-4, n. four-winged insects.

Leporonine, lep'o-fin, n. n. virulent skin disease.

Leprous, lep'ro-5, n. a sin disease.

Lesson, les'n. n. a smaller degree.

Lessee, les. ad/, in a smaller degree.

Lessee, les. es, n. one to whom a lease is granted.

Lessee, les. on, n. a task; a portion of study.

Lesson, les-or, n. a lease granter.

Lest, let, v. to permit, to lease.

Lett, let, v. to permit, to lease.

Letth, let, v. to wash by water percolation.

Lettang, leth-ar'jik, ad/, droway; dufl.

Lettangry, leth-er-ji, n. dullness; heaviness.

eth, lether, n. the view of forgetulness.

eth, lether, n. the view of forgetulness.

ethilerous, leth-ifer-us, ad/, deadly.

Letter, let'er, n. a nepistle; a sign of the alphabet.

Lettered, let'erd, ad/, learned.

Letters, let'ers, n. literature; authorship.

Lettune, let'is, n. a well-known edible plant.

Levant, le-vant', v. to decamp.

Levantine, le-vant'in, ad/, pertaining to the Levant.

Levee, lev'er, n. a bar for raising weights.

Levere, lev'er-et, n. a nesmbly of visitors.

Leveller, lev'er-et, n. a poung hare.

Levershie, lev'er-et, n. a nesonoshity.

Lexicography, leks-i-klog'ra-et, n. ductionary making.

Levitation, lev'i-d'-fin, n. nesonoshity.

Lability, l'A-bill'et, n. responshibity.

Lability, l'A-bill'et, n. responshibity.

Lability, l'A-bill'et, n. responshibity.

Lability, l'B-bill'et, n. responshibity.

Lability, libel-ler, n. one who defanues.

Libellier, libel-er, n. one who defanues.

Libellier, libel-er, n. one who defanues.

Libellier, libel-er, n. one who defanues.

Libellier,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Liege, léj, n. a vassal.
Lieu, li'an or lé'en, n. a legal claim.
Lieu, li, n. place; room; stead.
Lieu, lii, n. place; room; stead.
Life, lii, n. vitality; animate existence.
Life, lii, n. vitality; animate existence.
Life, liife, n. a guard of the king.
Lifehold, li'hold, n. land held for life.
Lifeless, liffes, adj. dead; inert.
Lift, liit, v. to raise to a higher position.
Ligament, lig'a-ment, n. a cord.
Ligation, lig'a-tin, n. at or condition of binding.
Ligatir, liig-a-tir, n. a Bandage.
Light, lit, n. the agent which renders objects visible; knowledge; a point of view; a window.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ligature, ligatur, n. a Bandage.
Light, lit, n. the agent which renders objects visible;
knowledge; a point of view; a window.
Lighten, lifen, v. to render lighter.
Lighter, liften, v. a river barge.
Lighter, lift, n. a m electric flash in the sky.
Lights, lift, n. the lungs.
Lights, lift, n. the lungs.
Lighter, lift, n. a di. light-hearted.
Ligneous, lighter, s. adj. woody.
Lighter, liften, v. wood post from tissues or bark.
Lignure, lighter, n. a kind of procious stone.
Lignure, lighter, n. a kind of procious stone.
Lige, lift, adj. equal; similar; n. resemblance; v to enjoy; to be pleased with.
Likelihood, likTh-hood, n. probability,
Liken, liften, v. to compare.
Liken, liften, v. to compare.
Liken, lift, n. a shrub.
Liliacous, lili-lift, n. a shrub.
Liliacous, lili-lift, n. a shrub.
Liliacous, lili-lift, n. adj. relating to lilies.
Liliputian, lili-pu'shan, adj. dwarfish.
Lili, lilt, v. to sing cheerfully.

[snalls, Lilit, shellers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lilt, lilt, v. to sing cheerfully. [snails. Limaceous, li-ma'shus, adv. pertaining to shell-less Limb, lim. v. an ann, leg, or foot, branch of a tree;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         v. to dismember.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          v. to dismember.
Limber, in/fex. line; n. a two-wheeled attachment to a gun-carriage.
Limberness, lum'berness, n. flexibity.
Limbo, lim'bō, n. a place of restraint.
Limit, lim't, n. restriction; bounds.
Limitation, lim-t-3'clum, n. restriction.
Limitation, lim-t-3'clum, n. restriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Limitation, lim.-it.a'slum, n. restriction.
Limn, lim, n. to draw or paint.
Limnuer, lim'ner, n. a portrait painter.
Limous, li'mus, adj. slimy.
Limpu, limp, n. to walk lame; adj. lacking stiffness.
Limpet, lim'pet, n. a small shell-fish that sticks to rocks.
Limpid, lim'pid, adj. clear.
Limpidity, lim-pid'it.l. n. clearness.
Limy, li'ml, adj. viscous.
Linchlin, limsh'pin, n. a bolt for an axio.
Linchlin, lim'den, n. the lime tree.
Lince, lim, a mark drawn, stretched, or scored from
            Libellous, li'bel-us, ad). defamatory.
Liberal, lib'er-al, adj. generous; n. a supporter of
Liberal, ib'er-al, ad; generous; n. a supporter of e.L.iberal politics.
Liberal, ed; generous; n. a supporter of e.L.iberal politics.
Liberalism, lib'er-al-izm, n. Liberal principles.
Liberalism, lib'er-al-izm, n. Liberal principles.
Liberator, lib'er-al-izm, n. a debauchee.
Liberator, lib'er-al-izm, n. a debauchee.
Libertinism, lib'er-tin-izm, n. licentiousness.
Liberty, lib'er-tin, n. a debauchee.
Libertinism, lib'er-tin-izm, n. licentiousness.
Liberty, lib'er-tin, n. a room where books are kept.
Libraty, li'brat, n. a room where books are kept.
Libraty, li'brat, n. a room where books are kept.
Librator, li-brat'shun, n. act of balancing.
Libratory, li'brat-or, n. de hook of words of an opera or other extended musical composition.
Licence, li'sens, m. permission.
Licence, li'sens, m. permission.
Licentatte, li-sen'sh'-a, n. license holder.
Licentatte, li-sen'sh'-a, n. one who holds licence for a profession.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Linchpin, liusi'pin, n. a bolt for an axlo.
Linden, iniden, n. the lime tree.
Line, lin, n. a mark drawn, stretched, or scored from
point to point; a cord; a longitudinal extension.
Lineage, lin'e-â, n. ace; family.
Lineament, lin'e-a, n. ace; from from flax.
Linear, lin'e-a, n. ace; from from flax.
Linear, lin'e-a, n. ace; from flax.
Linear, lin'e-a, n. ace; family.
Linger, ling'e-a, v. to lag behind.
Linger, ling'e-a, v. to lag behind.
Linger, ling'e-a, v. ace skilled in languages.
Linguistic, ling'ewist'ik, n. ace; for the language.
Linguistic, ling'ewist'ik, n. ace; for the language.
Links, ling'e-a, n. ace; bertaining to the Lineae.
Links, ling'es, n. ground on which gol' is played.
Linean, lin-ê'an, n. ace; bertaining to the Lineae.
Linear, lin'e-a, n. ace; pertaining to the Lineae.
Linear, lin'e, n. a sail singing bird. (classification.
Linotype, lin'e-a, n. ace; fax-seed.
Linsey, lin'zi, n. a fabric of sinen.
Lintel, lin'zi, n. a fabric of 
    a profession. Licentious, self. unrestrained; immoral. Lichem, Wiken, st. a plant of the moss order. Licht, lis'tt, asf, lawful; proper. a. Lick, lis'tt, asf, lawful; proper. a. Lick, lik, w. to draw the tongue over the surface of. Lictor, lit'tor, st. a court official of ancient Rome. Lid, st. a movable cover. Lid, st. a movable cover. Lid, st. w. to utter falsehood; to remain prostfate. Lief, left, adv. willingly; gladly.
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ENGLISH DICTIONARY.

Loaf, 16f, n. a shaped mass of bread or sugar; v. to Loafer do'fer, n. an idler. [lounge idly. Loam, lon, n. soil; narl. Loan, lon, n. money or object lent; v. the lending Loath, lok, adj. unwilling. [thereof. Loathe, loth, v. to detest. Loathemeness, loith'sun-ness, n. the quality of Lob, lob, n. a lout, a dolt. [being loathsome. Lobate, lob'fit, adj. composed of lobes. Lobble, lob, n. a division of the brain, lungs, etc. Lobelet, lob'fit, n. a small lobe. Lobelia, lobe'fi, n. a small lobe. Lobelia, lobe'fi, n. a small lobe. Lobelia, lobe'fi, n. a small lobe. Localise, lob'fitalit, v. to render local. Locality, lo'kalit, v. to render local. Locality, lo'kalit, n. place; district; position. Locate, lock, n. a lake. Lock, lok, n. a lake. Lock, lok, n. a nappliance for fastening doors, cabinets, etc.; the inclosure of a canal; v. to secure; to confine; to unite. Locket, lok'e, n. a leke locks of a canal. Locket, lok'et, n. a little case. Locket, lok'et, n. a little case. Locket, lok'et, n. a coarse cloth made at Locrenan. Locksmith, lok'smith, n. a maker and mediter of Locomotion, lo-ko-mo'shun, n. movement. [locks. Locus, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point. Locust, lo'kus, n. place; curve described by a point.
  Lion, if on, st. a well-known carnivorous animal; a prominent person or object. **
Lion-is, v. to flatter: to treat as eminent.
Lip, st. the fleshy covering of the front teeth; the outer adge of a vessel.
Lipograms, inpogram, st. a poem from which words containing a particular letter are omitted.
Liquation, lik-wi-fix, shun, st. the act of rendering liquid.
Liqueston, lik-wi-fix, shun, st. act of melting.
Liquesty, lik-wi-fi, st. to melt.
Liquesty, lik-wi-fi, st. to melt.
Liquesty, lik-wi-fi, st. to melt.
Liquid, lik-wi-fi, st. to settle, or wind up.
Liquidate, lik-wid at, st. to settle, or wind up.
Liquidaton, lik-wid-fix, st. act of liquidating.
Liquidator, lik-wid-fix, st. one who winds up insolvent estates.
      Lion, il'on, s. a well-known carnivorous animai: a
                                insolvent estates.
      Injustivent estates.

Liquidty, lik-wid'k-l, n. the quality of being liquid.

Liquor, lik'or, n. a liquid; strong druk; spirits.

Liquorice, lik'er-is, n. Spanish juice.

Lisp, v. to whisper or pronounce sibilants imperfectly.

Lisome, liv'un, adj. supple.

List, n. a catalogue; a kind of cloth; v. to desire; to

List, liv'el v. a narrow filler
Listome, lis'uni. adj. supple.

List, n. a catalogue; a kind of cloth; v. to desire; to

Listel, list'el, n. a narrow fillet.

Listen, lis'n. v. to hearten; to give close attention.

Listener, lis'ner, n. one who listens.

Listener, lis'ner, n. one who listens.

Listener, lis'ner, n. one who listens.

Listensy, lit'er-al, adj. d. carelessly,

Litany, lit'er-al, adj. erral; catcl.

Literary, lit'er-al, adj. learned.

Literati, lit-er-al', adj. versed in or relating to

Literati, lit-er-al', n. men of letters.

Literati, lit-er-al', n. n. pooks and writings collectively; the science of letters.

Lithe, lith, adj. flexible; numble.

Litheness, lith'ness, adj. flexibility; tenderness.

Lithography, lith'o-g-aff, n. a stone print; v. to write

on stone and print therefrom.

Lithography, lith'o-g-aff, n. a rate of writing on stone.

Lithology, lith-ol'o-fl, n. natural history of stones.

Lithophys, lith'o-g-aff, n. a stone or into counting stone

Lithotrity, lith'o-trit, n. an object of combined stone and plant, as coral.

Lithotrity, lith-ol'o-nil, n. operation of cuting stone

Lithotrity, lith'o-trit, n. the operation of crushing stone in ladder.

Littgable, hit'spabl, adj. contestable at law.

Literati, lithount. s. one envaded in a lawsuit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        thorny tree.
                                                                                                                                                                                                                                                                                                                                                                                                                            thorny tree.
Locution, lockd'shun, n. the art of speaking.
Lode, bod, n. a metallic venn; a channel.
Lodge, lod, n. a cottage at the entrance to a park;
a friendly society og its place of meeting.
Lodger, lofer, n. one who lives in the house of
another.

[an upper room.
                                                                                                                                                                                                                                                                                                                                                                                                                            another.

Jumper room.

Loft, n. the space clove under the mof; a gallery;
Logarithm, log'a-rit/nn, n. mathematical term.

Log-book, log'book, n journal of a ship's course.

Log-book, log'book, n. journal of a ship's course.

Log-great, log'eat-log, n. a dut

Logic, log'ik, n. the art of reasoning.

Logical, log'ik, al, n., reasoninde.

Log-dine, log'lik, n. n. one versed in logic.

Log-dine, log'lin, n. line for measuring a ship's way.

Logogram, lo'go-gram, n. an abbrevlated word,

symbol, or type.

Log wood, log'wood, n. d.trk red wood used in dying.

Log wood, in, the part above the hip.
      stone in bladder.
Litigable, in't'ya-bl, ad/. contestable at law.
Litigath, in't'ya-bl, ad/. contestable at law.
Litigate, in't'-gain, n. one engaged in a lawsuit.
Litigate, in't-gain, n. to engage in contention at law.
Litigation, lit-l'ga's hun, n. contention in law.
Litigation, lit-l'ga's hun, n. contention from helens.
Litte, le'tr, n. a French liquid measure.
Litter, le'tr, n. a hund currouse for the duador injured.
                                                                                                                                                                                                                                                                                                                                                                                                                            Log wood, fog wood, n. d.r.k red wood used in dying.
Loin, loin, n the part above the hip.
Loiter, loj ter, v. to delay.
Loil, ioi, v. to lean lazity.
Loil, ioi, v. to lean lazity.
Loinard, loir berd, n. an unlabitant of Lombardy.
Lone, loin, adv. solitary; alone. Lan old-time banker.
Long, adv. dr um out; lengthy; protracted.
Longerity, lon-jev'id., n. long life.
Longimanous, lon-jun'a-nus, adv. long-handed.
Longing, long'ing, n. craving; desire.
Longitude, lon'jit-id, n. length, distance from east to
Loo, n. a. card game.
    Litre, [s'tr, n. a French liquid measure.
Litter, litr, n. a hand carrange for the dead or injured;
the young of an animal produced at one birth.
Little, lit!, aaf, small in size, quantity, or degree.
Littoral, lit-ur'ide-al, n. pertaining to the shore.
Litturgical, lit-ur'jik-al, aaf, relating to litrigy.
Litrurgi, lit'ur'jik, n. the ritual prescribed for public
worship.

Lite the bounding to dead the construction of the conduct.
      Live, liv, v. to have life; to dwell m a place; to regulivelihood, liv'li-hood, v. subsistence; means of hving.
      Liveliness, liv'lines, n. gaety.
Livelong, liv'long, ady, tedoos: long-lasting.
Lively, liv'li, add, annuated; active.
Liver, liv'er, n. organ of bile secretion.
Livery, liv'er, l., dress. [member of a ci
                                                                                                                                                                                                                                                                                                                                                                                                                                  Loo, n. a card game.
Look, n. to observe; to take sight of.
                                                                                                                                                                                                                                                                                                                                                                                                                                Look-out, look'owt, n. a watching for.
Loom, n. a weaving machine: v. to appear in sight.
Loon, n. a water-fowl; a mean fellow.
                                                                                                                                                                                                                      member of a city guild.
      Liveryman, in eri-man, n. one who wears livery; a Livestock, in farm annuals.
Livid, adj. discoloured; n. a lead colour.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Loop, n, g noose; a bend; a thong.
Loophole, loop'hôl, n, hole in a wall; way of escape.
      Living, living, n support; a benefice.
Living, living, n support; a benefice.
Living, living, n support; a benefice.
Livington, livington, n, a number of a book
published in serial form.
Lixiviation, lik-siy-la'shun, the process of washing
                                                                                                                                                                                                                                                                                                                                                                                                                                  Loose, loos, adj. unfastened; not dense; lax.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Loosen, loos'n, v. to unfasten; to relax.
                                                                                                                                                                                                                                                                                                                                                                                                                              Loot, n. plunder; v. to plunder.
Lop, v. to hair down; to cut away.
Lopsided, lop sid-ed, ad, unequal; heavier or more
inclined in one direction.
Loquacity, lo-kwas't-f. n. talkativeness.
  Lixivistion, lik-sty-fa'shun, the process of washing substances in fluid for dissolving purposes. Lizard, liz'erd, n. a saurian reptile.
Lizard, liz'no, n. a prairie.
Lloyd's, loidz, n. the London shipdwners' exchange and marine insurante headquarvers.
Loach, loch, n. a sinall river-fish.
Loach, loch, n. a sinall river-fish.
Loach, lod, n. a burden; v. to make heavy.
Loadstar, lod'str, n. the polestar.
Loadstar, lod'str, n. magnetic ore.
                                                                                                                                                                                                                                                                                                                                                                                                                              Lord, lawrd, n. a peer; a person of rank and authority.
Lordiness, lawrdliness, n. dignity.
Lording, lawrdling, n. a little lord; a presumer.
Lordship, lawrd slip, n. dominion; the condition of
being a lord.
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Dearly Cycl. Opacida.

Lore, lor, n. learning; doctrine.

Lorette, lorett', n. a loose woman.

Lorguette, lorett', n. a loose woman.

Lorguette, lorenyet', n. an operagiass.

Loricate, lord-tat, v. to plate over.

Lorry, lor'l, n. a sideless four-wheeled waggon.

Loe, looz, v. to misplace; to waste; to suffer damage

Lot, lot, n. a quantity; a portion.

Lothario, lor/sk'i-lo, n. a male fiit.

Lotton, lo'shun, n. a male fiit.

Lotton, lo'shun, n. a male fiit.

Lottery, lot'er'l, n. chance; prize-giving by lot.

Lottus, lo'tus, n. the Egyptian water-lily.

Lounge, lownj, n. to loiter.

Lounge, lownj, n. to loiter.

Lounge, lownj, n. to loiter.

Lowner, low'el, n. a stupid fellow.

Lowe, low, n. a religious (estival.

Lowe-feast, luv'fst, n. a religious (estival.

Lowe-ru, luv'er, n. one who loves; a sweetheart.

Lowe-loy, luv'sic, n. ad', or or own with amorous feeling.

Low, lo, ad', of little elevation.

Lowe, lo'er, n. to humble.

Lower, lo'er, n. to humble.

Lower, lo'er, n. to humble.
            Lower, lover, v. to humble.
Lower, lower, v. to threaten; to appear dark.
    Lower, low'er, v. to threaten; to appear dark.
Lowery, low'er-!, ad/. cloudy.
Lowing; lô'ing, ad/. bellowing; n. cry of cattle.
Lowings, lô'ines, n. humility.
Lowates, lô'ines, n. humility.
Lowates, lô'ines, n. dejection.
Low-water, lô'waw-ter, n. the lowest point of chil-
Loxia, loi's-ia, n. ny-neck. [tude.
Loyate, loi'al-li, n. fdelity in allegiance.
Lozenge, lor'enj, n. a rhomb; a small sweetmeat.
Lubber, lub'er, n. a clown; a clumsy fellow.
Lubricate, loo'brit-sit, n. smoothness; slipperiness.
Luce, loo, f. a fresh-water fish.
    Lubricity, loo-bris'it!, n. smoothness; slipperiness. Luce, loos, c. a fresh-water fish. Lucent, loo'sent, ad; resplengent. Lucent, loo'sent, ad; resplengent. Lucernal, loo-ser'nal, ad; relating to a lamp. Lucerna, loo-ser'nal, ad; relating to a lamp. Lucenta, loo-serin', n. a fodder plant. Luckid, loo'sid, ad; clear; transparent. Luckid, loo-sid'it!, n. light. Lucki, luck, n. fortune; fate; chance. Luckides, luk'ess, ad; unfortunate. Lucky, luk'i, ad; fortunate. Lucky, luk'i, ad; fortunate. Lucherate, loo'ki-lvid, ad; gainful; profitable. Lucubrate, loo'ki-lvid, v. to write or study at night. Lucubrate, loo'ki-lvid, v. to write or study at night. Lucubrate, loo'ki-lvid, shu, n. product of study. Luculent, loo'ki-lent, ad; lucid; clear. Ludicrous, loo-ki-brid'shu, n. product of study. Luce, liviez, a plague. Luff, luf, n. the windward side. Lug, v. to drag.
Lues, lifez, a plague.

Luff, ht., n. the windward side.

Lug, v. to drag.

Lug, v. to drag.

Lug gege, lug ij, n. personal travelling baggage.

Luggege, lug ij, n. personal travelling baggage.

Luggege, lug ij, n. personal travelling baggage.

Luggege, lug ij, n. personal travelling shp.

Luguerious, loog givirius, n. doleful.

Lukewarm, look wawrm, adj. tepid.

Luli, n. an interval of caim or silence.

Luliaby, luij id-hi, n. a song to queten children.

Lumbago, lum-big og, n. rheunatism in the loins.

Lumber, lum'ber, n. timber; anything cumbersome.

Luminous, loor min-us, adj. shining.

Lump, n. a mass of unshapen form and uncertain size!

Lumpner, lump'er, n. a ship labourer.

Lumping, lump'ish, adj. in a lump; bulky.

Lumpy, lump'ish, adj. in a lump; bulky.

Lumps, lump'ish, adj. in a lump; bulky.

Lumps, lump'ish, adj. to the moon.

Lunarian, loonat' n. m. an inhabitant of the moon.

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Lunarian, loonat' n. m. an inhabitant of the moon.

Lunarian, loonat' n. m. an inhabitant of the moon.

Lunarian, loonat' n. m. m. the interval between two lunar revolutions.

[dinner: v. to take same.

Lunact, loon n. anything of half-moon form.

Lunge, lunj, v. a sudden push.

däy; it; farm; ëve; čik; thère: ice; pin; m.

däy; it; farm; ëve; čik; thère: jo; pin; m.
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unt, m. a light.
      Lunine, loo pin, self. wolf-like.
Lupinius, loo pid-lus, s. the hop plant.
Lupus, loo pid-lus, s. the hop plant.
Lurch, w. to shift; s. a sudden roll of a ship.
Lurcher, lurch'er, s. a lurker; a kind of sporting dog.
Lurch, w. to shitt; w. a sudden roll of a shap.
Lurcher, lurch'er, w. a lurker; a kind of sporting dog.
Lure, loor, w. to snare.
Lurid, loo' rid, ad/, gloomy; ghastly.
Lurk, w. to skulk; to lie in wait.
Luscious, lush'us, ad/, delicious; cloyingly rich.
Lush, ad/, fresh; succulent.
Lusiad, loo's-ad, w. a Portuguese epic.
Lusory, loo's-ad, ad/, playful.
Lust, w. carnal desire; w. to crave immoderately.
Lust, w. carnal desire; w. to crave immoderately.
Lustriul, lust'ful, ad/, sensual.
Lustral, lust'ral, ad/, sued in the ceremony of puri-
Lustralion, lus-tris'shun, w. purification by sacrifice.
Lustry, lus'tral, ad/, shaining; luminous.
Lustrium, lus'trum, a, a silky cloth.
Lustrous, lus'trus, ad/, shaining; luminous.
Lustry lus'trus, ad/, shaining; luminous.
Lustrium, lus'trum, a, a period of five years.
Lusty, lus'trus, ad/, shaining; luminous.
Lustrium, lus'trus, ad/, relating to the doctrines of
Luxate, luks'āt, w. to put out of joint.
Luxuriate, luks'āt, w. to indulge; to grow to
Luxurious, luks'ūt'ius, ad/, pleasurable; given to
things.
   Luxurious, 'luk-xi'ri-us, adj. pleasurable; given to luxury.

Luxury, luk'ū-ri, n. a delicacy; indulgence in costly Lycanthropy, li-kan'/hro-pi, n. insanity with lupine imaginings. [where it meets. Lyceum, li-sū-um, n. a literary society; or the place Lydian, lid'i-in, adj. soft and slow music; effeminate. Lye, li, n. a solution from ashes or alkaline salt. Lying, l'ing, n. falsifying; adj. recumbent. Lying-to, l'ing-too, w. checking in sailing; salling so as to front the waves.

Lymph, limf. n. a fluid contained in animal bedies.
   as to front the waves.

Lymph, limf, n. a fluid contained in animal bodies.

Lymph, limf, n. a fluid contained in animal bodies.

Lymch, linsh, v. to punish without legal trial

Lyrate, lir'ait, adi, lyrc-shaped.

Lyre, lir, n. a stringed musical instrument,

Lyric, lir'ist, n. a poem to be sung.

Lyrist, lir'ist, one who plays the lyre.
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Mab, n. fairy queen.

MacAris, mak'ar-iz, v. to line a road with MacAris, mak'ar-iz, v. to bless. [broken stones. Mace, mas, n. spice; a staff of authority.

Mace are, mas'er-it, v. to steep; to attenuate.

Machiavelian, mak'n-it, vito steep; to attenuate.

Machiavelian, mak'n-it, vito steep; to attenuate in the staff of the sta
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dāy; āt; arm; ēve; ēlk; thère; ice; pin; machine; bold; pot; storm; mute; tib; bûra.

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PEARS' CYCLOPAEDIA.
Magistrate, maj-is-te'ri-al, ad/, matterful.
Magistrate, maj-is-te'ri-al, ad/, matterful.
Magistrate, maj-is-trat, n. the body of magistrates.
Magistrate, maj-is-trat, n. a public civil officer.
Magnatin, maj-is-trat, n. a public civil officer.
Magnate, mag-in-is-trat, n. a light white powder.
Magnet, mag-net-is, n. a light white powder.
Magnet, mag-net-is, n. loadstone.
Magnetise, mag-net-is, n. to officence; to attract.
Magnificence, mag-nii'o-keens, n. high-aounding
phrases.
Magnificence, mag-nii'o-keens, n. high-aounding
phrases.
Magnificens, n. pomp; grandeur.
Magnificence, mag-nii'o-keens, n. high-aounding
phrases.
Magnificens, mag-nii'o-keens, n. high-aounding
phrases.
Magnificens, n. pomp; n. n. a bird of the crow species.
Magnificens, mag-ni-ib-ib-ira-ta, n. the title of an Indian
Mahogany, maj-hig-in-it o make lame.
 Mahogany, må-hog'an-l, n. a fine hard-wood. [epic. Maim, naim, v. to niqure: to make laime. Mainland, mān'land, n. the land as distinct from sca. Maintain, men-tān', v. to support: to uphold. Maintenance, men'ten-ans, n. sustenance. Majersty, niaj'es-ti, n. dignity; royal state. Major, mil'ei-r, nd, greater; eider: n. a military officer. Major-domo, maj'er-do'mo, n. a general steward. Major-domo, major'ici, n. the larger number; fill age; a major's rank. "Malachite, mal'ak-lt, n. one who foments strife. Malachite, mal'ak-lt, n. a green unineral. Malachite, mal'ak-lt, n. and-a-min-t-tra'shun, n. bad Maladminstration, mal-a-d-min-t-tra'shun, n. bad Malady, mal-kz', n. uneamess.
    Malaise, ma-laz', #. uneasmess.
  Malaperi, mal'a-peri, adi. forward; bold.
Malaperi, mal'a-peri, adi. forward; bold.
Malaprojas, mal'a-prop.izm, n. misapplication of
Malar, mal'ari-a, n. bad air from marshy ground.
Malacinieni, mal'kori-eni, n. a discontented person.
    Malediction, mal-e-dik'shun, n. a curse.
Malefactor, mal-e-fak'tor, n. a crininal.
  Malevolence, mal-evel to: n. a crimina.
Malevolence, mal-evel n. bad conduct.
Malformation, mal-form. shad conduct.
Malformation, mal-form. shun, n. wrong formation.
Malicon, malish n. apt. with will.
Malicon, malish n. apt. with ked; spiteful.
  Malign, ma-lin; v. malicious; badly disposed.

Malignant, ma-lin; malicious; badly disposed.

Malignant, ma-lin; mant, adj. spateful.

Malingerer, ma-lin; ger-er, n. one who feigns sickness.
    Malison, mal'i-zun, n. a curse.
Malicable, mal'e-abl, adj. ductile.
    Malmsey, mam'zi, n. a wine.
Malpractice, mal-prak'tis, n evil practice.
Maltater, mawit'ster, n. one who makes malt.
     Maltreatment, mai trêt'ment, n. improper treatment.
    Malversation, malver-sa'shun, n. evil practices.

Mammillary, mam'il-ar-l, adj. pertaming to the
                     breasts.
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Mammon, mam'on, n. the god of wealth; riches. Mammoth, mam'uth, n. a large extract animal of the manimoun, manimum, m. a large extinct animal of the elephant kind: adj. gigantic.

Manacles, man'a-klz. m. handcuffs.

Manageable, man'a-klz. m. handcuffs.

Mandamus, man-da'nius, m. writ of command from a higher court to a lower.

Mandarin, man'da-rin, m. a Chinese official. Mandatary, man'da-ta-n, n. one to whom a mandate is addressed.

Manoreer, man-om'e-ter, n. an instrument for substanting gases.

Manor, man'or, n. a seudal lordship.

Manorial, man-o'ri-al, ad/, pertaining to a manor.

Manalaughter, man'slaw-ter, n. willul slaying.

Mantel, man-tel-et', a small mantle.

Manual, man'i-al, ad/, pertaining to the hand.

Manual man'i-al, add, pertaining to the hand.

Manual man'i-al, add, pertaining to the hand.

Manual man'i-al, add, pertaining to the hand.

Manumiastory, man-i-ak'to-i, n. a factory.

Manumiastory, man-i-ak'to-i, n. a factory.

Manumiastori, man-i-man'in, n. the act of setting Manure, man-i-r, n. fertilissing material.

Manuscript, man'i-skript, n. written matter

Manunks ad/, pertaining to a Manx, mangke ad/. pertaining to i Mappery, map'er-l, s. the art of map-making. Maranatha, mar-an-l'/sa, s. anathema. Maraschino, mar-as-ke'no, n. a liqueur distilled from Maraamus, mar-as'mus, n. a flesh wasting. [chernes. Maraud, ma-rawd', n. to wander in quest of plunder. Maramus, mar-as'mu. u. a firsh wasting. (chernes, Maraud, mar-awd', w. to wander in quest of plunder. Marcescent, mar-ses'ent, ad/, withering. Marches, march'ez, m. borders of a country. Marchloness, marsh-o-nes', n. a wife or widow of a Marcld, mar'sid, ad/, withered. Margarine, mar'gar-ën', n. a fatty imitation of butter. Marginal, mar'gin-al, ad/, in the margin. Marigold, mar'leold, n. a yellow flowering plant. Marine, mar'in', n. a soldier serving on a ship; the navy; ad/, relating to the sea. [Virgin. Mariolatry, mar-lo-d'Artf, n. excessive worship of the Marital, mar'it-al, ad/, relating to a husband. Marit, mar'it-in, ad/, pertaining to the sea. Marine, mar'ltim, ad/, pertaining to the sea. Mark, n. a sign i an impression; a badge; v. to make a mark; to note. Marine, mar'ltim, n. a small protective role [oranges. Marine, mar'lm', n. a small protective role [oranges. Marmalade, mar'ma'], n. pre-serve made from Marmorean, mar-mo're-an, ad/, like, or pertaining to marble. to marble. Maroon, ma-roon', n. claret colour; a fugitive negro slave; v. to put ashore on an unmhabited Island.

Marque, mark, w. licence to make reprisals; a ship fitted out for capture.

Marquee, marke, v. a large field tent.

Marquetry, marketti, w. inlaid shell-work, Marquis, mark'wis, n. a title of nobility, ranking next below a duke. Marriageable, mar'ij-abl, adj. in condition to marry, Marrow, mar'è, s. essence: soft matter contained in Mars, mârz, s. a planet; the god of war. [bones, Marseillaise, mâr'sāl-yāz, s. French revolutionary hymn. (ceremonies. mynn. Marshal, marshal, n. an officer for regulating Marsupial, marshal, n. an officer for regulating Marsupial, marshal, n. an officer for regulating Martello, marshal, ad; multary; bold. Martin, martin, n. a small bird of the swallow kind. Martine, martine, martine, n. a severe disciplinarion. Martinet, mar-tin-et', n. a severe disciplinarian. Martinet, mår-tin-et', m. a severe disciplinarian. Martingale, mår-tin-gål, n. a horse strap. [Nov. tr. Martin-mas, mår-tin-mas, m. feast of St. Martin, Martyr, mår-ter-dom, n. the suffering of a martyr, martyr-dom, mår-ter-dom, n. the suffering of a martyr, Martyrology, mår-ter-dom, n. the suffering of a martyr, Martyrology, mår-ter-dom, n. the suffering is wonderful. Masonic, mår-ton-lik, add. pertaining to freemasomry, Masonry, mår-son-ri, n. stonework.

Masona, ma-sör, n. n. e collection of lewish commants.

Masora, ma-sò'ra, n. a collection of Jewish comments on the Old Testament. [to assemble in masks. Masquerade, mask'er-ād, n. a masked revelry: v. Massacre, mas'a-ker, n. carnage; butchery; murder. Masterkey, má'ster-kē, n. a key that opens a series of different locks. [skiil. Masterly, mas'ter-li, ad/. master-like: with supreme Masterpiece, mas'ter-pes, n. a great work; a chief

Mastery, mas'ter-i, s. command over; dominion; Mastic, mas'tik, s. a kind of resin; a cement made

(victory.

ady. scotting:

Material, mat-e'rl-al, adj. essential; composed of

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Memorable, menfor-abl, adj. famous; worthy of
                                                                                                                                                                                                                                                               remembrance.
                                                                                                                                                                                                                                               Memorandum, mem-5-ran'dum, st. a record, a note.

Memorand, mem-5'ri-al, st. a monument thousands
which keeps a thing or person in remembrance.
  Materialist, mat-e'ri-al-ist, s. one who disbelieves in
                 spiritual power.
        dateriality, mat-ë-ri-al'īt-ī, #. material existence.
  Maternal, maternal, ad. motherly.

Maternity, maternit-I, n. motherhood.

Mathematics, mak-e-mat'iks, n. the science of num-
                                                                                                                                                                                                                                              Memoriale, memorial-al-lz, w. to present a memorial Memorise, mem'o-riz, w. to learn by heart. [to. Menace, mem'o-riz, w. to learn by heart. [to. Menace, men'as, w. to threaten: **. a threat. Menagerie, men-al/er-l, w. a collection of wild animals. Mendacity, men-das-'t-l, w. falsehood: lying. Menial, me'ni-al, ad/. servile: **, an inferior servant. Meniacua, me'ni-al, add, servile: **, an inferior servant. Meniacua, men'stri-um, **, a solvent. Mensuration, men-sir-al-add; monthly. Menstriuum, men'stri-um, **, a solvent. Mensuration, men-sir-al-shun, **, the science of Mentor, men'tor, **, an advisor [measuring. Mephistophelean, mef-is-to-fe'le-an, ** adv. **, add. **, 
  Matinée, mat-in-3°, s. morning performance. [Ders. Matins, mat'ms, s. morning worship. Matrass, sarYas, s. a vessel psed for chemicals. Matrice, mat'ms, s. a mould. Matrice, mat'ms, s. a mould.
       of a mother. [college membership,
Matriculate, ma-trik'ū-lāt, v. to enrol; to admit to
 Matriculate, ma-trik'ū-lāt, v. to enrol; to adnut to Matrimony, matri-mun-i, m. marriage.
Matron, ma'trom, n, an elderly lady; a married woman.
Mattock, mat'ok, n, a pick-axe.
Mattress, mat'ors, n, a bed made of stuffed material.
Maturity, ma-tu'-ri-t, n, npeness.
Matutinal, ma-tu'-tu-al, adj, relating to morning.
Maudlin, mawd'lin, adj, drunk; silly,
Maul-stick, mawl'stik, n a hand-rest used by painters.
Masusoleum, maw-so-lê'um, n, a stately tomb.
Mavis, mā'vis, n, the thrush.
Mavis, maw, n: the stomach.
Mawkish, mawt'-tsh, adj, nauseous; suckening; silly.
Maxillary, maks-il'ar-j, adj, relating to the jaw.
                                                                                                                                                                                                                                                  Mephistophelean, mef-is-tô-fê'le-an.
                                                                                                                                                                                                                                               cynical. [halations. Mephitic, mef-it'ik, adj pertaining to poisonous ex-
Mephitis, mef-it'is, n. nauseous exhalation.
                                                                                                                                                                                                                                              Mephitis, mel-l'its, m. nauseous exnatation.

Mercenary, mer'sen-ri, ad, greed; m. a hireling.

Mercery, mer'sen-ri, m. a mercer's stock.

Merchandise, mer'chan-diz, m. merchantable goods.

Mercurial, mer-kür'nal, adj. active; spirited; consisting of quicksilver

Mercury, mer kür-l, m. quicksilver.

Meretricious, merc-l-trish'us, adj. evil; showy; alluring.

Marchian. merch'l-an, n. noon
                                                                                                                                                                                                                                              Meretricious, mered-trish'us, adv. evil; showy;
Meridian, mer. d'l'an, n. noon.
Meritorious, mer-ted'i-us, ady, having merit.
Merle, merl, n. a blackbird.
Merlin, merlin, n. a sort of hawk.
     Maxillary, maks-il'ar-I, adj. relating to the jaw.
    Maxim, maks'ım, n. a proverb.
   Maximum, maks'i-inum, n. the createst number or Mayoralty, ma'or-al-ti, n. office of mayor. [quantity.
  Mazarine, material, n. once of major. Quantay Mazarine, mazer-n, n a rich blue colour. Maze, maz, n, a labyrinth: v to be wilder. Mead, med, n, a drink made from honey; a meadow. Meagre, m^2v, adv, scanty: poor.
                                                                                                                                                                                                                                               Merriment, mer'i-ment, n. jolity; gaiety; laughter.
Mesentery, mes'en-ter-i, n an intestinal membrane.
Mesh, mesh, n. opening between the threads of a net;
  Meagre, np'gr, ad, scanty; poor,
Mealy-mothled, me'll-mowth'd, ad, soft-tongued,
Meander, me'an'der, n. to wind in and out: n. a
Measles, me'zlz, n. a skin erupton (winding course.
Measurement, mezh'ur-ment, n. dimensions: the act
                                                                                                                                                                                                                                                               v. to ensnare.
                                                                                                                                                                                                                                               w. to ensnare.

Mesmerism, meymer-izm, n the act of mesmerising,
Mesne, n.ēn, ady intermediate
Messenger, incs'en-jer, n. a conveyer of messages.
Messuage, mey'wi, n. a dwelling and lands.
Metal, net'l, n a fusible inmenal substance.
Metallurgy, met-al-ur'jl, n. the science of refining
metals.
   of measuring. [to machines. Mechanic, me-kan'ik, n. an artisan : adj. pertaining Mechanical, me-kan'ik-al, adj. machine-like.
  Mechanics, me-kan'iks, n. science of the action of force,
Mechanism, mek'an-izm, n. the structure of a machine,
                                                                                                                                                                                                                                                 Metamorphose, met-a-morfoz, v. to transform; to
                                                                                                                                                                                                                                                 Metamorphosis, met-A-mor'fo-sis, n. a transformation.
  Mechanist, mek'an-ist, s. one who constructs or tends
                 machines
  Medal, med'l, n. coin or token, with device.

Medallion, me-dal'yun, n. a large medal.

Medallist, med'al-ist, n. one who has gamed a medal.
  Meddler, med'ler, u. one who interferes; a busybody
  menuer, med ict. 11. one wno interieres; a busyb
Medial, më di-al, an, average; middle
Mediate, më di-at. 11. to intercede.
Mediation, më-di-a'shun, 11. the act of mediating.
Mediatorial, më-di-a'-b'rl-al, ad/. pertaming t
                 mediator
  Medical, med'ik-al, adj. pertaining to medicine.
Medicament, med'ik-ā-ment, n. a medicinal substance.
  Medicinal, med-is'in-al, ad/ possessing healing power.
Medicine, med'i-sin, n. substances used for curative
 Medium me'di-um, adj, relating to the Middle Ages.
Mediocre, më-di-të/val, adj, ordinary; moderate.
Mediutative, medi-ta/tiv, adj, ordinary; moderate.
Medium, me'di-um, a, middle; a mocus.
[tive.
Medium, me'di-um, v. midule; a means. (tive. Mediury, med'il, w. a jumble: a mscellany. Medulary, me-du'l' Arl, ad/. composed of or like Medulary, me-du'l' Arl, ad/. composed of or like Meed, med, m. reward. [marrow. Meely, me'l', adv. duly; suitably. Megrim, me'grim, s. pain in half of the head. Melancholy, mel'an-bold, s. gloon; dejection. Melée, mà-là', n. a disordered conflict. Melorate, me'l' yo-rât, v. to murvoe. Melliferous, mel-if'er-us, ad/. honey-like. Mellifuous, mel-if'er-us, ad/. smooth; aoftly flowing. Mellodus, mel'o-diz, v. to make melodious. Mellodus, mel'o-diz, v. to make melodious Mellody, mel'o-dix, w. to make melodious Mellody, mel'o-dix, w. mel's sound; an air; a tune. Membranacous, mem-bran-k'shus, ad/. compresed
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Metaphorical, met-a-for ik-al, ad). figurative.
Metaphrastic, me-ta-fras tik, ad). exact; literal.
  Metaphysical, met a-fiz'ik-al, ady. pertaming to meta-
  physics.

Metaphysics, meta-fiz'iks, n. science of the mind.

Metaper, me-ta'yer, n. a farmer who pays part of his rent in crops.
 Meter, mit, v to measure: n. houndary.

Metermpsychosis, me-tem-4-ko'sis, n. the passing of a soul from one body to another.

Meteor, me'te-or, n. a shooting star.

Meteorolite, me'te-or-bit, n. a meteoric stone.
 Meteorology, mê-tê-or-ol'o-ji, n. the science of the
 atmosphere.

Meter, mc'ter, n. a measuring apparatus.

Metherlin, meth-eg'lin, n. a hquor made from honey.

Methodical, meth-dd'ik-al, ad; according to method.

Methodists, meth-dd'ik-al, ad; according to method.

Methodists, meth-dd'ik-al, ad; according to method.

Methodists.
   Metope, met'o pë, n. the space between triglyphs of a
Metope, met'o-pē, n. the space between triglyphs of a Metre, mēt'n, n. verse, poetic measure.
Metrical, met'rik-al, ad/, pertaining to verse.
Metrical, met'rik-al, ad/, pertaining to verse.
Metrology, metrolo-i/l, n. science of weights and measures.

(city: an archbishop.
Metropolitian, metro-pol'it-an, ad/, relating to a chief Mettle, met'l, n. spirit; courage.
Mettlesome, met'l-sum, ad/, spirited.
Mew, miù, n. a cat's cry; a sea fowl; v. to coop up.
Mews, miu, n. a row of stables.
Mezzotint, met'so-tint, n. a style of engraving on Miasma, mê-ar'mā, n. noxious exhalations. [copper.
Michaelmea, mg't'-mas, n. fi, ast of St. Michael, spth September.
Michaelmea, ngr.'i-mas, n. n.ast or St. Michael, agth
September.
Microcosm, m'kro-kozm, n. a little world.
Microscope, m'kro-kkop, n. a magnifying instrument.
Midriff, mid'rif, n. the diaphragm.
Midriff, mid'rif, n. the diaphragm.
Midwijery, mid'wif-fi, n. childbirth assistance.
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Membranaceous, mem-bran-a'shus, adj. composed of or relating to a membrane. Lemento, me-men'to, n. a souvenir; a token. Memoir, mem'war, n. a short biography.

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Mien, mēn, s. look; aspect; bearing; expression.

Mignonette, min-yun-ot', s. a fragrant plant.

Migratory, m'gra-to-ri, ad', accustomed to migrate.

Milch, m'th, ad; yielding milk.

Mildew, m'th, s. fragrant on leaves, cloth, etc.

Mileage, m'th, s. fees for miles covered.

Mileage, milt, s. fees for miles covered.

Mileage, milt; an, ad; pertaining to Ireland or the

Militan, milt-an; ad; warlike; fighting.

Militate, mil-is-la, s. a subsidary miltary body.

Milky-way, milk'-wa, s. the galaxy.

Mill-cog, milkog, s., the tooth of a wheel.

Millenary, mil-en'ar-i, s. comprising a thousand.

Millenary, mil-en'ar-i, s.d.; pertaining to the Millen-

nium.

[Christ's reign on earth.

Millennium, mil-en'yum, s. the promised 1.000 years of
                                                                                                                                                                                                                                                                                                                                                                                 Misery, fliz'er-!, n. distress; poverty.
Misfortufe, mis-for'tun, n. calamity; bad fortune.
Misgoring, mis-giv'ing, n. doubt; distrust.
Misgovernment, mis-guv'ern-ment; n. wron
                                                                                                                                                                                                                                                                                                                                                                                                       government.
                                                                                                                                                                                                                                                                                                                                                                                 Misguidance, mis-gid'ans, n. leading astray.
Mishap, mis-hap', n. an accident.
Mishna, mish'na, n. a collection of Jewish laws.
                                                                                                                                                                                                                                                                                                                                                                               Mishida, mish'na, n. a collection of Jewin 1848, Mishidorm, mish-norm, v. to inform wrongly. Mishiderpret, mis-in-ter'pret, v. to interpret wrongly. Mishider, mis-jul', v. to judge erroneously. Mishay, mis-jul', v. to lay in the wrong place. Mishiday, mis-jul', v. to lay in the wrong place. Mishide, mis-jul', v. to dishide. Mishide, mis-jul', v. to dishide. Mishide, mis-jul', v. to dishide.
                                                                                                                                                                                                                                                                                                                                                                               Mialike, mis-lik', v. to dislike.

Mismanagement, mis-man'āj-ment, n. bad manage-
Mismonmer, mis-no'mer, n. a wrong name.

Misogamist, mis-og'm-ist, n. ne who dislikes mar-
Misogymist, mis-og'm-ist, n. a woman hater,
Mispriti, mis-priti, n. a printer's error.
Misprision, mis-priti'n, n. an oversight; an over-
Misquote, mis-kwôt', v. to quote wrong'ully.

Misrepresentation, mis-rep-o-sent-d'shun, n. an un-
fathful picture or narration.
 Millennium, mil-en'yum, n. the promised 1,000 years of Millet, mil'et. n. an edible grain from grass. Millet, mil'if-ard, n. a thousand nullhons.
Millhard, mil'm-er, n. a maker of or dealer in ladies'
Milliner, mil'un-er, n. a maker of or dealer in ladies'
Million, mil'yun, n. ten hundred thousand, lhead-gear,
Millionalre, mil-yun-ār', n. a man worth a million or
Milt, milt, n. the spleen; roe of fishes. [more.
Mimetc, mim-cri, n. do. limitative.
Mimilt, n. mim-tik, n. one who mutates; v. to inutate.
Mimilter, mim-tik-fi, n. nutation.
Minaret, mim-tik-fi, n. nutation.
Minaret, min'ar-et, n. a turret on a mosque.
Mineril, nin'sing-fi, n. do. fictedly,
Miner, mi'ner-n, n one who works in a mine.
Minerall, milter, n one who works in a mine.
Minerall, min't-n, n an inorganic substance found in
the earth; any substance comprising metal.
Mineralogy, min-tr-al'g-ji, n. Science of inunerals.
Miniature, min't-a-tur, n. a small painting; adj, on a
small scale.
                                                                                                                                                                                                                                                                                                                                                                               Misrepresentation, mis-rep-e-sent-a'shun, n. an unfathful picture or narration.

Misrule, mis-roo!, n. unjust rule.

Missal, mis-nos!, n. a Mass book.

Misshape, mis-shap', n. to shape wrongly.

Missile, mis'(i, n. a weapon thrown by the hand...

Missilon, mish'un, n. a duty a person or persons may be sent out to perform; programs son!
                                                                                                                                                                                                                                                                                                                                                                                                         be sent out to perform; persons sent.
                                                                                                                                                                                                                                                                                                                                                                               Misalve, mis'iv, n. a written message.
Misatatement, mis-st it ment, n. a wrongful statement.
Mist, n. a watery vapour in the atmosphere.
Mistake, mis-tak, n. error.
Mistake, mis-tak, n. error.
Mistaress, mis-tres, n. female head of a house; a condistrustful, mis-trus (id. ad), suspicious. [cultine.
Misunderstanding, mis-un-der-standing, na mistake;
Misunderstanding, mis-un-der-standing, na mistake,
Misunderstanding, mis-un-der-standing, na mistake,
Mitten, mit'n, n. a kind of glove.
Mittimus, mit'n, n. a warrant of commitment.
Mizzenrast, mit'n-mast, n. mast that holds the mizzen.
Mnemonics, ne-inon'ikk, n. menory cultivation.
                                                                                                                                                                                                                                                                                                                                                                                     Missive, mis'iv. n. a written message.
                           small scale.
     Minim, min'im, s. half a semi-breve; a dwarf; a drop.
   Minimum, min'in um, n, the least quantity.
Minimum, min'in um, n, a kind of type; a mean favourite.
Ministry, min'is-tr', n, office of minister; the members
of a Covernment.
   dio a Government.

Minor, mirror, add. less, smaller; n one under age [age, Minority, min-orit-], n. a smaller number; state under minster, minster, n. a nonastery church or cathedral. Minstrel, minstrel, n. a wandering singer, a musician minstrels, numbried, n. minstrel music.

Mint, n. place where money is coined; an aronatic herb.
                                                                                                                                                                                                                                                                                                                                                                                     Mnemonics, ne-mon'iks, n. memory cultivation.
                                                                                                                                                                                                                                                                                                                                                                                 Mnemonics, ne-montks, n. memory cutivation.

Moat, mot, n. water trench round a castle

Mobilie, nic-bif. adj. capable of being excited.

Mobilise, mobili-iz, n. to prepare for war service.

Mocassin, mok'a-in, n. shoe worn by Red Indians

Mockery, mok'e-1, n. derision; rulcule.

Modal, mo'dal, n. pertaining to form.

Modality, mo'dal'it-f. n. mode in its logical significance.

Modal mo'd, n. apraymet conception to hamilited.
     Mintage, mint's, n. a thing comed; duty pand for Minus, minus, n. less; sign of subtraction.

Minute-book, min'st-book, n. book of notes of pro-
     ceedings. [as distress signal, Minute-gun, min'it-gun, n. a gun fired every minute Minutae, mi-mishi-e, n. small details. [as distress signal, n. small details.]
   Minuties, minut'shie, m. small details.

Minux, mingks, m. a pert grit.

Minux, mingks, m. a pert grit.

Miracle, miraki, m. a supernatural occurrence.

Mirage, mi-razh', m. the appearance of water on a flat

Miry, m'rit, adv. covered with mire.

Misadventure, mis-ad-vent'in, m. misfortune,

Misanthropy, mis-an'Aro-pi, m. harted of humankind.

Misapprehension, mis-ap-ric-hen'shun, m. misconcep-

misbechawlour, mis-bé-hār'yer, m. bad conduct.

Misbelled, mis-bé-léf', m. wrong belief. [ing,

Miscalculation, mis-kal-kü-lá'shun, m. a wrong reckon-

miscall, mis-kawl', m. to call wrongly. [prematurely,

Miscalmiskawl', m. to call wrongly. [prematurely,

Miscalculation, mis-sé-len-á'shun, m. mixture of races,

Miscellancous, mis-sé-len-á'shun, m. a mixture of races,

Miscellancous, mis-sé-len-á'shun, m. da', mixed; various,

Miscellancous, mis-sé-l'an-i, m. a collection of varied com-

position or objects.
                                                                                                                                                                                                                                                                                                                                                                                     Model, mod'l, n. an example; something to be mitated.
                                                                                                                                                                                                                                                                                                                                                                                     Moderation, mod-er-a'shun, n. temperance; avoidance
                                                                                                                                                                                                                                                                                                                                                                                   of excess. for university offical.

Moderator, mod'er-å-ter, n. one who restrains; a church
Modesty, mod'est-å, n. true; chastity: humility.
Modesty, mod'est-å, n. true; chastity: humility.
Modicum, modi'skun, n. a small portion
Modification, modi-fik å'shun, n. change.
Modillion, modi'sun, n. a brarker
                                                                                                                                                                                                                                                                                                                                                                                   Modification, mud-if-lk-å'shm, n. change.
Modillion, mo dil'yun, n. a bracket.
Modilsh, mo'dish, ad. fishionable.
Modiste, mo-dist', n. a dressinaker.
Modulate, mod'u-lat, v. to vary sounds, to inflect,
Modulator, mod-i-là'tor, n. one who mod-ilates.
Module, mod'u-late, s. mail measure: a model.
Modulus, mod'u-lus, n. a constant multiplier.
Mofusdi, mo'hu'-li, n. Indian country districts.
Mohair, mo'ha'-, n. the hair of the Angora gou; fabric
Molety, mo'iet-i, n. half. [made therefrom.
Moli, v. to drudge; to smear with dirt.
Moire antique, mwar-an-tek', n. watered silk.
Moist, ad, damp; humid.
                               positions or objects.
     Mischane, nils-chans', n. bad luck; mishap.
Mischief, mis'chif, n. harm; ujury.
Mischief, mis'chif, n. harm; ujury.
Mischief, mis'shif, n. harm; ujury.
Mischief, mis'shif, n. harm; ujury.
Misconception, nils-kon-sep'shun, n. a wrong idea.
   Misconception, mis-kon-sei/slum, n. a wrong idea.
Misconduct, mis-kon'dukt, n. lud behavour.
Miscreant, mis'krè-ant, n. a vile person.
Miscreant, mis'krè-ant, n. a vile person.
Misded, n. a wrongful act.
Goffence.
Misdemeanour, mis-de me'nev, n. an indictable
Misdred, mis-dr-kr', or to drect grongly.
Miss, miz, n. expenditure; money gift to superior.
Misemployment, mis-on-ploi ment, n. unsatisfactory
Miserable, mig'er-abl, adj, wretched.
Miserable, mig'er-abl, adj, wretched.
Miserable, miz'er-abl, adj, wretched.
                                                                                                                                                                                                                                                                                                                                                                                   Moire antique, mwār-an-tēk', n. watered silk.

Moist, ad, damp; lumid.

Moisture, moist ür, n. humidity.

Moiar, mōlar, n. ag rainding tooth; ad, grinding.

Moiases, mō-las'ez, n. treacle.

Mole, mōl, n. a small burrowing animal; a permanent
mark on the skin.

Molecule, mol'e-kul, n. one of the smallest particles of

Moleakin, mōl'skin, n. skin of a mole; a kind of cloth.

Molest, n. oh-let', v. to annoy; to disurb.

Molestation, molest.agahun, n. the act of molesting.
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Colfent, mol'I ent, adj. assuaging : softening.
  Mollent, mol'tent, ad/, assuaging: sortening.
Mollify, mol'fil, v. to appease; to pacify.
Molten, mol'ten, ad/, melted.
Moment, mo'ment. s. value: an instant of time.
Momentary, mo'ment-ar-l, ad/, of short duration.
Momentary, mo'ment-us, ad/, important.
Momentum, mo-men'tum, s. unpetus; force.
  Momentum, mo-mentum, n. unpetus, nate-
Monachism, mon'ak-izm, n. the monastic life.
Monadic, mo-nad'ik, ad', relating to monads.
Monandrous, mo-nan'drus, ad', having but one
inonarchy.
Monarchical, mon-ark'il-al, edf. pertaining to Monastery, inon'as-ter-l, n. a house for monks. Monetary, mun'i-ter-l, adf., relating to money. Monetary, mun'i-ter-l, adf., relating to money. Mongrel, mun'grel, n. of mixed breed. Monsing, mon'nizm, n. doctrine of unity. Monitor, mon'it-or, n. an admonisher: an instructor. Monitor, mon'it-or, n. adf. grumg warning. Monochord, mon'o-kord, n. a one-chorded instrument. Monocle, mon'o-kl. n. song of mourning for one voice. Monogram, mon'o-d. n. a single eye-glass. Monody, mon'o-d. n. and one mixed to more wife. Monogram, mon'o-gram, n. a design of interwoven mixed.
                                                                                                                                                                                                                              monarchy.
  mitals. [thing, Monograph, mon'o-graf, n. a description of a single Mone lith, mon'o-liv', n. a column of a single stone. Monologue, non'o-log, n. a soliloquy; entertainment given by one work.
     given by one person.

Monomania, mon-ō-mā'nī-ā, n. mental derangement
    Monotony, mon-o-ma'ni-a, n. mental derangement on a particular subject.

Monopoly, mon-o-jo-li, n. the sole right of dealing Monospermous, mon-o-sper'mus, adi. of one seed Monostich, mon'o-stic, n. a one-versted poem. [only. Monosyllable, mon'o-si-labl, n. a word of one sylable Monotheigm, mon-o-thè/zm, n. belief in one God. Monotony, mon-ot'o-ni, n. sameneys: lack of variety. Moneson, mon-sout, n. a refronderal Indian wind.
     monotony; mon-to-m, n. samenew; neck of variety. Monsoon, mon-soon, n. a phrodical Indian wid. Monster, mon'ster, n. something unnatural. Monstrosity, mon-strosit-i, n. an unnatural product. Moody, moo'dl, ad, gloomy; peevish. Moonshine, moon'shin, n. the shine of the moon. More more n. a heart.
                                                                                                                                                                                                                                                                                                                              numerous
    Moor, moor, m a heath
Moorage, moor ai, m place for mooring vessels.
Moot, w to discuss; to propose for debate.
Mope, mop, w to be dull.
    Mope, mop, v. to be dull.

Moraine, mo-rair, v. rocks on the edge of glaciers.

Morail, mor'al, ad, relating to right or wrong, good.

Morailse, mor'al-iz, v. to apply moral lessons.

Morass, mo-ras' n a marsh.

Morbid, mor'bid, ad, unsound; diseased

Morecau, mor-so', n, a morsel; short composition.

Mordacity, mor-das'its, n the quality of biting.

Mordacity, mor-das'its, n the quality of biting.

Mordacity, mordas'its, and more diseased wherean more'n', n a mysel testile fabre.
     Moreen, moren', n. a mixed textile fabric.
Moresque, moresk', ad/, in the Moorish manner.
Morganatic, mor-gan-at'tk, ad/, spihed to marriage
of a man with a woman of inferior rank.
     Moribund, mor'l-bund, any. dying.
     Moroseness, mo-ros nes, n. sulkmess.
Morphew, mor fil, n. a kind of scurf.
  Morphew, morfis, n. a kind of scurf.
Morpha, morfis, n. extract of opum.
Morpha, morfis, n. extract of opum.
Morphology, morfel'o'-jt, n. science of organic form.
Morsel, morsel, n. a small piece.
Mortality, mortal'iti, n. habitity to death.
Mortar, morfar, n. a cement, a vessel in which substances are pounded; a shell-throwing instrument.
Mortgage, morgáj, n. a deed of pledge.
Mortiferus, mortiferus, adj. fatal. [dying part.
Mortification, mortifickä/shun, n. shame; chagrin, a
Mortifying, mortificing adj. humilating vexatious.
Mortise, mor'us, n. an opening for a tenon.
Mortmain, mort'man, n. inalienable transfer of property to a body in trust.
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perty to a body in trust.

Mortuary, mort u-ar-i, n. a burial place; building for temporary reception of the dead.

Mosaic, mo-za'ik, ad. inlaid work.

Mosaur, mos lem, n. a Mohammedan.
Mosque, mosk, n. a Mohammedan temple.
Mote, mot, n. a spect; a particle.
Motet, niò-tet', n. a short sacred musical composition.
Motherly, mub'er-li, adj. maternal; mother-like.

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Motherwit, muth'er-wit, n. native wit.
Motion, mo'shun, n. the condition of moving.
Motive, mo'tiv, n. that which prompts to action; de-
Motive, mo'tiv, n. of various colours.
Motor, mo'tor, n. a motion-producing mageine.
Mottled, mot'id, an', dappled; speckled.
Motto, mot'o, n. a concise sentence; an inscription.
Moulder, mo'der, n. to decay, we make former.
Moulder, mo'der, n. to decay, we make former.
Moulder, mo'der, n. to consist which former.
Mouldy, mol'dl, ad, grown over with fungus.

Mouldy, môl'dl, ad, grown over with fungus.

Moult, môlt, v. to shed feathers.

Mountainous, mownt'an-us, adj. abounding in mountainous, mownt'an-us, adj.
Mountebank, mown't-bank, n. n. quack; a pretender. Mounting, mown'ting, n. an ascent; a setting. Mournful, mom'tiul, ag., lamentable. Moustache, mois-task, n. hur on the upper lip. Movables, moov'a-blz, n. goods: furniture, etc. Movingly, moov'mg-li, ag., with emotion. Mow, mo. v. to cut down; n. a pile of hay, etc. Muclage, muk, n. filth, n. gum. Muck, muk, n. filth, n. gum. Muck, muk, n. filth, s. limy fluid. Muddle, mud'l, n. confusion, disorder; v. to confuse. Mudfin, nutin, n. n. libro cake. Idress while off dury. Muffin, nutin, n. n. libro cake. Idress while off dury.
 Mountebank, mownt'l-bank, n. a quack; a pretender.
Muffin, nuf'in, n. a light cake. [dress while off duty. Muftl, muf'it, n. a Turkish legal official; an officer's Muggy, mug'l, adv. heavy; damp; close. Mugtlo, mil-lat'o, n. offishing of a white and a black.
 Mulatto, mu-latto, n. offspring of a white and a black.
Mulch, mulsh, n. rotted straw.
Mulct, nulkt, n. to fine, n. a fine.
Mulcter, mulkt, n. to fine, n. a fine.
Mullsh, mu'lsh, adh, stupid; obstinate.
Mull, nul, n. to heat and sweeten, to spoi n. a head-
Muller, mul'en, n. a pulvenser; postle. [land.
Muller, mul'en, n. a recepted in size of windows.
 muner, murer, n. a puiverser; pestle. Multon, mulyun n upright division of windows. Multes, muls, n spiced wire. Multarious, multi-fifthus, adj. of various kinds. Multinomial, multi-fifthus, adj an algebraic quantulitien, multi-pd, n. a many-forted insect. [tity, Multiple, multi-pd, n. an exactly divisible number;
     aa, of many parts

Multiplex, multiplexs, aaj, with many folds.

Multiplext, multiplexs, adj, with many folds.
   Multiply, multi-pli, v. to increase in numbers.

Multiply, multi-tud, n a crowd; a large number;

Mum ady silent; n silence.

[the people.]
     Mumble, numbl, v. to mutter.
     Mummer, mum'er, n. an actor: a buffoon.
     Mummy, mum', n. an embalmed body.

Mumpish, mump'ish, adj sullen; gluin.

Mumpsimus, momp'sl-mus, n an error stuck to after
                           it has been exposed.
 it has been exposed.

It has been exposed.

Munch, munsh, v to chew with closed lips. [world.

Munchan, mun'dian, adp. worldly, pertaining to the

Muncipal, min-in/pa, adp pertaining to a town or

city having local governing power. [liberality,

Munificence, min-in/sens, n generosity; bounty;

Muniment, mun-liment, n, title deed; a stronghold.

Munition munchi/m v war material.
     Munition, mu-nish'un, a. war materials.
     Munnion, mon'yun, n. (some as Mullion).
   Munnion, mun'yun, n. (same as Aiutton).

Mural, mir'al, ai', retaing to a wall

Murder, mur'der, n. the act of killing; v. to slay,

Murlatte, mo'-fat'ik, ad', bertaining to sea-salt.

Murky, murk'i, ad', obscure; gloomy; dark.

Murrain, mur'an, n. infectious disease among cattle.

Muscole, mush', n. fleshy fibres; anunal tissue.

Muscovado, musk'od, ad', inost-sike.

Muscovado, musk'od, ad', strong; relating to the

Muscular, musk' uk, ad', strong; relating to the
     Muscular, musk'ù lar, adj. strong: relating to the muscles. [treasures are exhibited]
 muscles. Itreasures are exhibited Museum, muzcles, muzcles, modeling, m. place where curosities and Muslic, muzlik, n. the science of sounds; melody, Muslic, muzlin, n. fine cotton fabric.
Mussulman, muslinan, n. a Mohammedan. [pelled. Musl, musl, n. new unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to be com-Muster, muslic, n. ev unfermented wine; v. to main, Muslate, muslic, n. ev unfermented wine; v. to main, Musling, muslic, n. ev unfermented wine; v. to main, Musling, muslic, n. ev unfermented wine; v. to main, Musling, muslic, n. ev unfermented wine; v. to main, Muslic, n. ev unfermented wine; v. to water, n. ev unfermented wine; v. to be com-Muslic, n. ev unfermented wine; v. ev unfermented wine; v.
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Mutual, mu'tù al, ady. reciprocal; in common.
Muszle, muz'l, s. a snout; a fastening for the mouth;
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Mycology mi-kol'o-ji, n. the science of fungi.

Mycopy, mro-pi, n. short-sightedness.

Mycobomy, mi-ol'o-mi, n. dissection of muscles.

Mythad, mir't-ad, n. a large number.

Myrmidon, mer'mid-un, n. a member of a ruffianly
Myrrh, mer, n. an aromatic gum.

[band.

Myrtle, mer'ti, n. an evergreen shrub. [mysteries.

Mystagogue, mist'a-gog, n. a teacher of religous

Hystery, mist'er-i, n. a deep secret; something un-

revealed.

[course with God.

Mystic, mist itik, adj. one who professes direct inter-

Mystitical, mist'itik, al, adj. obscure; emblematical.

Mystity, mist'i-fi, n. to confuse; to involve in obscurity.

Myth, mith, n. a fable; a concocted story.
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Nab, nab, v. to pounce upon and carry off,
Nacre, na'kr, v., mother-of-pearl,
Nacreous, na'kre-us, adj. of a pearly lustre,
Nadir, na'dir, v. opposite the zenith.
         Nag, nag, n. a pony; v. to carp.
Nail, nal, n. a pointed piece of metal for fastening substances; horny scale at the backs of the finger
      National Control of the Control of t
         Nankeen, nan-ken', n. a buff-coloured cloth.
      Nap, nap, n. woolly surface; a short sleep.
Nape, nap, n. the back of the neck.
Napers, nap ers, n. table linen.
Napiform, nap'i-lorn, adj. turup-shaped.
Narcotic, nar-kot'ik, adj. sleep-producing; n. sleep-
      producing medicine.

Nard, And, M. an aromatic plant.

Narrative, nar'ā-tiv, M. a story; an account of events.

Narrative, nar'ā-tiv, M. a story; an account of events.

Nasal, mā'cal, ad,. pertaining to the nose.

Nascent, nā'sont, ad/, callv stages of existence; in-

Nasute, nā'stiv, ad/, callv stages of existence; in-

Nasute, nā'stiv, ad/, callv stages of existence; in-

Natual, nā'tal, a'/, pertaining to birth; native.

Natualory, nā'ta-torl, ad/, relating to swinning.

Nation, nā'shun, n. a distinct pecyle; a people living

Natural, nā'tu-til-til, birth. [inder one government

Natural, nā'tū-tal, ad/, inborn; relating to nature;

unartificial, [ruhts of native citzenship
                                                 producing medicine.
                                                                                                                                                                                                                                                                                                 rights of native citizenship
         Naturalise, nat'u-ral-Iz, v. to grant to a foreigner the Nature, na tur, n the system of created things.
Naturalise, nat'u-ral-ir, v. to grant to a foreignet the Nature, and stur, n the system of created things.
Naught, nawt, m. nothing.
Naught, nawt, m. nothing.
Naught, nawt, m. nothing: producing tendency to Nauseate, naw's-8-4n. It adding: producing tendency to Nauseate, naw's-8-4n. to saken; to disgust.
Naval, nā'val, ad, marine: relating to shups.
Naval, nā'val, ad, marine: relating to shups.
Nave, nā'vel, m. the middle of the abdomen.
Naval, nā'vel, m. the middle of the abdomen.
Navagable, nav'g-abl, ad, salable; permitting of the passage of shups.
Navay, na'vl, m. fleet of ships.
Navay, na'vl, m. a labourer on excavations, railways, Neway, na'vl, m. a m. a labourer on excavations, railways, Neway, na'vl, m. a m. a labourer on excavations, railways, Neway, na'vl, m. a labourer on excavations, nawa labourer on excavations, railways, neway, na'vl, m. a m. a labourer on excavations, railways, nawa labourer on excavations, railways, labourer on excavations, railways, labourer on excavations, railways, labourer on excavations, railways, labourer on excavations, labourer on excavations, labourer on excavations, labourer labourer labourer labourer labourer lab
               Negative, neg'i-tiv, n. a proposition that denies.
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Negligence, neg'li-jens, m, habitual carelessness, Negligence, neg'li-jens, m, habitual carelessness, Negliate, neg'shi-lit, to treat with; to traffic, Negus, neg'gus, m, diluced wine.
Neglishouthood, n'éber-hood, m, the district around, Nemalite, nem's-lit, m, fibrous hydrate of magnesia.
Nemeas, nem'e-sis, m, the goddess of revenge; retri-Neologiam, në-ol'o-jism, m, a new doctrine. Ibution, Neology, ne-ol'o-jism, m, a new doctrine. Ibution, of doctrines; rationalism.
Neonbyte, ne'f-ol't, a, new convert.
Neology, ne-ofo-ji, n. the introduction of new words or doctrines; rationalism.

Neophyte, në'o-fit, n. a novice; a new convert.

Neo-platonism, në'o-fit, n. a novice; a new convert.

Neo-platonism, në'o-fit, n. a novice; a new convert.

Neophridi, në-fit, n. a drig that allays pain.

Nephridi, në-fit-fit, n. af right at allays pain.

Nephridi, në-fit-in, n. favouritism to kindred.

Nepotlam, në pot-ism, n. favouritism to kindred.

Nepotlam, në pot-ism, n. favouritism to kindred.

Neridi, në rë-id, n. a sea-nymph.

Nervou, nerviu, adj. strong; easily aguated.

Nesconec, në shi-ens, n. ignorance.

Nestoriamism, nes-tô'ran-izm, n. the doctrine of Nestor.

Nestor. [lurds; adj. free of deductions.

Net, net, n. a contrivance of twine for taching fish or Nether, nether, adj. lower.

Neuralgic, nu-ral'ik, adj. pertaining 40 nerve pain Neurology, nu-ro'o-ji, n science of the nerves.

Neuralgic, nu-tal'ik, adj. pertaining 40 nerve pain Neurology, nu-ro'o-ji, n science of the nerves.

Neuralgic, nu-tal'ik, adj. pertaining 40 nerve pain Neurology, nu-ro'o-ji, n science of the nerves.

Neuralgic, nu-tal'ik, adj. pertaining 40 nerve pain Neurology, nu-ro'o-ji, n science of the nerves.
         Nicety, nis'e-ti, n. minute accuracy; fastidiousness.
         Niche, nich, " a small recess.
      Nick, nik, n. a notch; the exact moment.
Nick-nacks, nik naks, n trifles
      Nickname, nik'nām, n an appellation of imiliarity or Nictitate, nik-n-tāt', v to wink. [derision. Nicitication, nid-if-ik-n dum, n, the process of nest
                                      l uilding and bird rearing.
    I uilding and bird rearing.

Ridulation, md.-lik'shun, m nest building

Niece, nes, m, daughter of a brother or sister,

Niggardly, nig'ard-li, ad, misorly, mean.

Nightmare, nil'mar, n a violent droun.

Nightmare, nil'mar, n a violent droun.

Nightmare, nil'mar, n a violent droun.

Nightmare, nil'gres'ent, ad/ becoming black.

Nihility, n-hul'itd, m, nothinguess.

Nimble, nim'bl, ad/ busk; active [a rain cloud.

Nimble, ni
         Nincompoop, nul'kum-poop, n. a foolish fellow.
Nippers, nul'ers, n. small pincers.
Nipple, nipl, n. a teat
         Nisus, ni'sus, n. effort : attempt,
Nit, nit, n. the egg of insects.
         Nitrate, ni'trat, n. salt of nitric acid.
Nitre, ni'tr, n. nitrate of potash.
      Nitrie, m'trik, mile, on panish.
Nitrie, m'trik, mile, con panish.
Notetambulat, molt-tam thu-list, m a sleep-walker.
Nocturnal, nok-turn'al, ad, mghtly relating to mght.
Nocuous, nok-turn'al, ad, mghtly relating to mght.
Nocuous, nok-tu-s, ad, harmhul.
    Noddle, nodl, n. the head
Noddle, nodl, n. a sca fowl, a sunpleton.
Node, nod. n. a knob; a knot.
Nodese, nod-tlest, arti, knottle.
Nodese, nod-tlest, arti, knottle.
Nodellar, nod tl-lar, arti, knottle.
Nogelin, nod tl-lar, arti, knottle.
Nogelin, nog'in, n. a small liquid measure
Nolsy, noi zi, arti, hurblect, clamorous, loud.
Nokes, noks, n. a silly fellow.
Noll, nol, n. the head.
Nomad, n. a wunderer.
Nomadie, no-mad'ik, arti, pastoral; roving. [name.
Nomandry, no'man-i, n. dvination from letters in a
Nomenclature, no'men-kli-tur, n. name.
Nomincal, nom'in-al, arti, in name only; not real.
Nomincal, nom'in-al, arti, in name only; not real.
Nomincalism, nom'in-al-tzm, n. the doctrine that
general terms are without corresponding reality.
           Noddle, nod'l, n. the head
         general terms are without corresponding reality.
Nominee, nom-i-ne', s. one nominated.
Nomistic, no-mis'tik, ad., pertaining to sacred laws.
           Nonage, non'il, #. minority.

Nonagemarian, non-i-jen-iri-an, #. one who is ninety
Nonce, nons, #. the present.

Years old,
Nonchalance, non'shal-ans, #. coolness; indifference.
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dāy; āt; arm; ēve; šik; thère; ice; pin; machine; böld; pötq störm; mūte; tūb; būrn.

PEARS' CYCLOPAEDIA. Nonconductor, non-kon-dukt'or, n. a non-transmitter of heat or electricity. [what is not yet claffed. Nondescript, non'de-skript, n. odd; mdescribable; Nonentity, non-en'tril, n. a nobody. Nonet, nô-net', n. a musical composition in nine parts. Nonjuror, non-joo'ror, n. one who declined to take the oath of allegance in 1688. Nonpareil, non'par-el, u. a kind of type; adj. un-Nonplus, non'plus, v. to puzzle [equalled. Nonsense, non'sens, n. absurdity; meaningless talk. Nonsensical, non-sens'ik-al, adj. foolish; without meaning. Nonsuit, non'sūt, n. stoppage of a suit to secure Noodle, noo'dl, n. a witless fellow. [a fresh trial. Noodie, noo'di, n. a witless fellow. If I resh t Nook, nook, n. a corner; a recess. Noology, nō-ol'ō-jī, n. the science of mc Noose, nooz, n. a running knot. [phenome Normal, nor'mal, nadi, regular; isual. Nosegay, nōz-ol'o-jī, n. classification of diseases. Nostril, nos'tril, n. nose passage. Nostril, nos'tril, n. nome sciencess. Nostril, nos'tril, n. a quack inedicine. Notable, nōt'abl, adj, remarkable; distinguished. Notary n. a testifium legul officer. of mentul [phenomena. Notary, no ta-ri, n. a testifying legal officer.

Notary, no ta-ri, n. a testifying legal officer.

Notary, no ta-ri, n. a testifying legal officer.

Notary, no ta-ri, n. a cut or indentation. Isigus, etc. Noten, noch, n. a. cut or indentation. [signs, etc., wothing nees, nothing, nes, n. v. ant of existence; lack Noticeable, no tis-abl, adj. worthy of note. [of value. Notify, no'ti-fi, n. to make known. Notoriety, no-to-fritel, n. phibic note. [credit Notorious, no-to-fi-ts, adj. infamous; known to dis-Nourishment, n. nurish-ment, n. sustaming food. Nourisnment, nurisnment, M. sustaming Noot.
Nous, nows, n. intelligence
Novelist, nov'el-ist, n. one who writes nevels,
Novelty, no'el-ist, n. something new.
Novitiate, no-vish'i-it, n. the mate of being a novice.
Noxious, nok'shus, ad., ill-favoured; evil sinciling;
Noyous, noi-us, ad., troublesome. [bad. Nozzle, noz'l, n. the mouth of an aperture Nuance, nu'ans, n a delicate shade of difference. Nucleus, nu'dis, nd, makedness. Nucleus, nu'dis, nd', marriageable.
Nucleus, nu'klè-us, n a central point; the head of a Nucleus, nu'dit, n nakedness. (comet.

Numerator, nu'mer-a-tor. n. one who numbers. Numismatics, nū-ms-mat'iks, n. the study of coins. Numskull, num'skul, n. a foolish fellow. Nun, nun, n. a female who retires to a convent.

Nun, nun, n. a remne who retires by a content.

Nuncio, nun'shi-o, n. a papal ambassador.

Nuncupative, nun-ki'pā-tiv, adp, publicly declared.

Nunnery, nun'er-i, n. a convent.

Nuptial, nup'shal, adp', relating to marriage.

Nursery, nur-ser-i, n. an a partinent for children;

ground set apart for bringing forward young plants.

Nutation, nu-tā'shun, n. motion of the earth's axis.

Nutation and margawl, n. a excreptice of the oak. Nutgall, nut'gawl, s. an excrescence of the oak.

Nutgall, nut'gawl, s. an excrescence of the oak.

Nutriment, nut'rri-ment, s. nourishing food.

Nutriment, nut'rri-ment, s. nourishing food. Nutritious, nu trish'us, ad/. possessing Nuzzle, nuz'l, v. to rub the nose against. adj. possessing nourishing he nose against. [qualities.

Oaf, ôf, n. a foolish person.
Oak, ôk, n. a tree, yielding a valuable timber.
Oaken, ô'ken, adj. composed of oak. Oaking, & sir, tompose to same Oaking, & sir, tompose to same Oaking, n. a young oak. Oakum, ök'um, n. loose hemp. Oak, & sis, n. a fertile spot in a desert. Oak, & n. a plant from whose seed gatmeal is made. Oaten, 6'ten, ady, relating to oats.

Oaten, 6'ten, ady, relating to oats.

Oaten, 6'ten, ady, relating to oats.

Oaten, 6'ten, a solemn declaration in God's name.

Obbligato, ob-li-gâ'to, s. a special accompaniment.

Obduracy, ob'dù-rh-si, n. sternness of heart. [obey. Obedience, o-bē'dl-ens, n. dutifulness; willingness to Obeisance, ō-bē'sens, n. an act of reverence op nomage. Obelisk, o'bō-lisk, n. a pyramidal pillar. obesity, ō-bō'sist, n. fatness. Obex, ō-bō'sist, n. fatness. Obex, ō-bō'sist, n. fatness. Obey, ō-bō'sist, n. fatness. Obey, ō-bō'sist, n. to acts desired; to yield to. Obfuscate, ob-fus'kāt, v. to obscure; to confuse. Oblt. o'bt. n. death. Obfuscate, ob-fus'kāt, v. to obscure; to confuse.

Obit, o'bit, n. death.
Object, ob'jekt, w. a thing seen or striven after;
Object, ob-jekt', v. to make opposition to. [motive,
Objective, ob-jek', v. to make opposition; act of objecting.
Objective, ob-joc', v. to swear. [external to the mind.
Objurgation, ob-jurga'slun, n. reproof.
Oblate, ob-lit', adr, fattened at the poles.
Oblation, ob-lit', adr, hattened at the poles.
Obligation, ob-lig'a'shun, n. a sacrifice or offering.
Oblige, ob-lit', v. to gratify; to bind to.
Oblique, ob-lit', adr, mirrect; slanting.
Obliterate, ob-lit'er-āt, v. to efface,
Oblivious, ob-liv'rus, adr, forgetful; out of cogniz-Oblivious, ob-nok'shus, ad, officerini; out of cogniz-Oblogu, ob'low, ad, ingerthal broad. [ance. Obloguy, ob'lo-kwi, n calminy; blame. Obnoxious, ob-nok'shus, ad, odious, offensive. Obnoxious, ob-nok'shus, ady, odious, offensive.

Oboe, o'bò-ê, na reed instrument.

Obovute, ob-ò'văt, adj. egg-shaped.

Obscure, ob-sên', adj. inipure; indecent; lewd.

Obscure, ob-sên', a, to to concent; ady, dark; indistinct.

Obscure, ob-sên', a'v. to to concent; ady, dark; indistinct.

Obscure, ob-sên', a'v. to to beseed.

Obscure, ob-sên', a'v. to to beseed.

Obscure, ob-sên', a'v. inipuratines.

Obscure, ob'sên', a'v. inipuratines.

Obscure, ob-zen', a'v. inipuratines.

Obscure, ob-zen', a'v. inipuratines, a'v. inipuratines.

Obscure, ob-zen', a'v. inipuratines, a'v. in Observatory, ob-zer'vă to-ri, n. a look-out: a place where astronomical observations are taken Observe, ob-zerv', n to note, to remark.
Obsession, ob-sesh'un, n persistence of attack. Obsidian, ob-sid'I-an, s. a natural glass Obsignate, obsignate, v. to confirm; to seal Obsolescent, obsolescent, obsolescent, ody going out of use. Obsolete, ob/solet, adv. out of date, disused. Obstacle, ob/stakl. n. an obstruction Obstetric, obstet'rik, adv relating to midwifery. Obstinacy, ob'stin-4-si, n. stubbornness Obstinacy, ob'stin-4sf, n. srubbornness
Obstreey, ob'stin-4sf, n. srubbornness
Obstreey, ob-strep'erus, adj.
Obstruction, ob-struk'shun, n. the act of obstructing;
Obstruction, ob-struk'shun, n. the act of obstructing;
Obstruction, ob'struk'nhun, n. the act of obstructing;
Obstruction, ob'struk'nhun, n. the propertiess
Obstruction, ob'struk'shun, n. the lost obstructing;
Obtest, ob'struk'shun, n. to lost
Obtest, ob-test', n. to call upon to testify.
Obtrude, ob-troo'siv, n. presumung, apt to obtrude.
Obtrusse, ob-tros', n. presumung, apt to obtrude.
Obtrusse, ob-tros', n. presumung, apt to obtrude.
Obverse, ob'vers, n. the head side of a com.
Obverse, ob'vers, n. the head side of a com.
Obverse, ob'vers', n. the head side of a com.
Obverse, ob'vers', n. to prevent it of tree from difficulty.
Obvious, ob'vius, ad', clear, indisputable, evident.
Obvious, ob'vius, ad', turned inward ipoportunity,
Occasion, o'ski'zlum, n. a. happening, an event; an Obvious, ob'vious, ad, clear, undisputable, evident.
Obvolute, ob'vo-luit, ad, turned inward | opportunity, Occasion, o-kā'zlunn, m. a happening, an event; an Occasional, o-kā'zlunn, m. a happening, an event; an Occasional, o-kā'zlunn-al, ad, occurring now and then. Occidental, o-kā's-lunn-al, ad, owsterm. Occipital, ok-si-pitical, ad, relating to the back of the Occiput, ok-si-pitical, ad, relating to the back of the Occiput, ok-klood', to aboorb
Occult, ok-klood', to aboorb
Occult, ok-kloid', ad, bidden; abstruse; secret.
Occultism, ok-kult', ad, hidden; abstruse; secret.
Occultism, ok-kult', ad, hidden; abstruse; secret.
Occupan, ok-up-n, m. a dweller.
Occupy, ok-up-n, w. to possess, to hold.
Occus, ok-kur', n. to happen; to appear.
Occultism, ok-up-n, n. an incident.
Occan, o's-hun, n. gelte vaster spar.
Ochloracy, ok-lob'(ra s), n. mob-rule.
Octandrous, ok-tan'drus, ad, having ellit stem ms.

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Oöidal, 4-o'dal, adf. egg-shaped.
Oolige, o'o-lit, n. a kind of linestone.
Oology, ō-ol'oj-i, n. the study of eggs.
Oolong, oo'long, n. a kind of black tea
   Octave, okt'āv, n. the musical eighth.
Octavo, ok-tā'vo, n. having eight leaves to a sheet.
Octennial, ok-ten'nī-al, adj. occurring every eighth
October 1. See the seed of the
   year
Octogen
                                                                                                                                                                                                                                                                                                                                                  Odong, or long, n. a krid of black real.

Oze, oz., v. to percolate; n. soft mud.

Opacity, o-pas'it.1, n. opaqueness.
Opal, o'pal, n. a preclous stone.

Opan, o'pal, n. ad/, untransparent.
Open, o'pen, ad/, not closed; spread out; frank; n. a

Opera, op'er a. n. musical drama. [clear space.

Opera, o'per a. n. musical drama.
                                                                                                                                                                                                                                                                                                                                                  Operate, op'er-at, v. to work; to exert; to perform a surgical operation.

Operative, op'er-at-tiv, v. a workman; a labourer;

adj. having power to operate.
                                                                                                                                                                                                                                                                                                                                           adj. having power to operate.

Operculum, o-per ku-luin, n. a cover or lid.

Operose, op'er-0.r. adj. laborious.

Ophicleide, of't-kild. n. a large brass musical instru-
Ophidian, ôf-id'1-an, adj. relating to serpents. [ment.
Ophiology, ôf-lo'lo-jl., r'the study of serpents.
Ophthalmia, of-hal'mi-a, n. eye inflammation.
Ophthalmic, of-hal'mi-a, n. eye inflammation.
Ophthalmic, of-hal'mi, adj. relating to the eye.
Opiate, ô'plat, n. drug outsining opium.
                                                                                                                                                                                                                                                                                                                                                  Opine, o pin, n. ung tomaning opinin.
Opine, o pin, n. usuppose.
Opinion, o-pin, n. usev; belief; judgment.
Opium, o pil-un, n. juice of the white poppy.
Oppolation, op-li-shun, n. stoppage.
Opponent, op-pol-ent, n. one who opposes.
 Offer, of er, v to propose; n, that which is offered.
Offerfory, of er-to-fi, n alins given at cliurch.
Off-hand, of hand, ad, without denur; readily.
Office, of is, n, position, place where clerical work is
Office, of is, n. position, place where clerical work is done.

Officer, of is-er, n. the holder of an office; any man official, of-fish'al, ad, a public officer.

Officiate, of-fish'al, v. to serve; to act.

Officious, of-fish'al, v. to serve; to act.

Officious, of-fish'al, v. to serve; to act.

Officious, of-fish'al, v. to serve; to act.

Offing, offing, n. off the shore

Offing, offing, n. of the shore

Offiset, of set, n a balance, equivalent.

Off, oft, adv. often

Ogham, og'am, n an ancient kind of Irish writing.

Ogive, o'in, n a pointed arch

Ogie, o'gl, n. to glance at aniorously.

Ogre, o'gr, n a monster

Oldlum, o'd'fun, n, a kind of parasite fungt.

Oll, oil, n. any greasy lquid, n to fubricate with oil.
                                                                                                                                                                                                                                                                                                                                                  Opponent, op-po'lent, n. one who opposes, Opportune, op'portun, ad; timely, Seasonable.
Opportunity, op-portu'ni-ti, n. a lavourable chance.
Opposite, op'o-zi, ad; facing; adverse. [party.
Opposition, op-o-zish'un, n resistance, an opposing
Oppress, op-pres', n. to burden, to press upon.
Opprobious, op-po'lei-us, ad; disgraceful.
Opposition opposition opposition opposition opposition opposition.
                                                                                                                                                                                                                                                                                                                                                Oppress, op-press, v. to burden, to press upon.
Opprobious, o-pri/birl.un, m. reproach; infamy.
Opprobrium, op-pri/birl.un, m. reproach; infamy.
Oppung, op-pin, v. to oppose.
Optative, op'th tity, at/y expressive of degre.
Optic, op'th, at/y, extremely of sight,
Optic, op'th, at/y, extremely of sight,
Optic, op'th, at/y, extremely of light,
Optic, op'th, at/y, extremely of light
Optimism, op'thm'an, n. the belief that everything is
Optional, op'shum, n. power of chose [for the best.
Optional, op'shum, n. power of chose.
Optional, op'shum, n. power of chose.
Optional, op'shum, n. wealth.
Opus, o'pus, m. work.
Oracle, o'p'shum, at wise opinion
Oracular, o-rak u-lar, at/y, suthoritative
Oracilo, o'ril'u-tw. add, stormy.
Oral, o ial at/y spoken; verbal.
Oranger, o'raly, n. a well-known fruit: a colour.
Orangeman, o'raly-ra, n an orange polantation or gar-
Oracilo, o'ral-or, n a public speaking.
Orator, o'rator, n a public speaking.
Orator, o'rator, n he art of public speaking.
Orb, orb, n. a circle: a sphere
Orbicular, orb-k'u-lar, at/y, round
Orbit, orb't, n. course of a planet.
Oradian, ork-a'tlan, at/y relating to the Orkneys.
Orchard, ork-a'tlan, at a band of musicains
     Oil, oil, n. any greasy liquid, v to lubricate with oil. Oil-cloth, oil'kloth, n coloured floor-covering
     Ointment, oint'ment, n. salve.
   Old, adv aged, worn out, ancient.
Oleaginous, ô-lê aj'm-us, adv. oily; unctuous.
Oleander, o-lê-an'der, n. an evergreen shrub-
   Oleaster, 6-le-arider, n. an evergreen strub-
Oleaster, 6-le-as ter, n. wid olive.
Olein, 6'le-in, n. natural fat.
Oleograph, 6'le-o-graf, n. an oil print.
Oleomargarine, 6 le-o-margar en, n. artificial butter
Olfactory, 0-lakt'0-n, n. the organ of sinell.
Oligarchy, 0'l'sch-ki, n. government by a few.
Olio. 6'llo, n. n. medley.
   Oligarchy, ol'işdr-ki, n. government by a few.
Olitory, ol'isten, adv. relating to vegetables,
Olivaceous, ol-iv-i'slus, adv olive-roloured.
Olivaceous, ol-iv-i'slus, adv olive-roloured.
Olivet, ol-iv-et', n. an miration pead of oliver, ol-iv-et', n. an ongruous mixture
Omega, o mega, n. the last letter of the Greek
Omen, o'men, n. a foreboding
Omissible, o-mis'-lol, adv that may be left out.
Omission, o-mish'un, n. neglect, failure.
Omit, o-nut', v. to leave out.
Omiparity, om-ni-parits, n. equality
Omnibus, oni'ni-bus, n. a large passenger vehicle;
adjscovernig all.
                                                                                                                                                                                                                                                                                                                                                     Orchard, orch'ard, n. garden of fruit trees
Orchestra, or kes-tra, n a band of musicans.
Ordain, or-din', v. to appoint; to set apart
Ordeal, or do'al, n. a severe trial.
                                                                                                                                                                                                                                                                                                                                                   Order, or der, n. a service triat.

Order, or der, n. method: rule, a fraterinty; v. tq.

Orderly, or der-li, ad/ methodical; regular.

Ordinal, or din-al, ad/. showing order.
                                                                                                                                                                                                                                                                                                                                                       Ordinance, or din-ans, n. a statute, a rite.
                             adi-coverng all.
                                                                                                                                                                                                                                                                                                                                                       Ordinary, or din art, adj. usual; common.
Ordinate, or din at, adj. regular; in order.
Ordinance, ordinans, n, artillery; cannon.
      Omnifarious, om-ni-fā-ri-us, ad) of every sort.
      Omnipotence, oni-nip'ō-tens a. indefinite power.
     Omnipresence, om-ut-prez'ens, n. presence every-
Omniscient, om-nish'ent, adj. ad-knowing. [where.
                                                                                                                                                                                                                                                                                                                                                       Ordonnance, or don-ans, n. harmonious combination
                                                                                                                                                                                                                                                                                                                                                                             of parts in a picture or building.
   Omnivorous, on-niv'er-us, ad., all-devouring.
Oneness, wun'ness, n. singleness.
Oneirology, o-li-ro'o-li, n. divination of dreams,
Onerous, on'er-us, ad., burdensome.
                                                                                                                                                                                                                                                                                                                                                       Ordure, or dur, n. filth.
Ore, or, n, crude metal.
                                                                                                                                                                                                                                                                                                                                                       Oread, ô'rê-ad, n. a mountain nymph.
Organ, or'gan, n. a large wind instrument; a vital
   Onstollo, oniti'o-lo, n, a variety of onyx.
Onicolo, o-niti'o-lo, n, a variety of onyx.
Onicoker, on'took or, \(^0\). To observer.
Onset, on'set, n, a sudden attack.
Onslaught, on'skiwt, n, a violent attack.
Outglogy, ost-ol'o-ji, n, the science of being.
Onua, o'nus, n, responsibility.
Onyx, on'iks, n, a kind of agate.
                                                                                                                                                                                                                                                                                                                                                                           part; a newspaper.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                [set in operation.
                                                                                                                                                                                                                                                                                                                                                     part; a newspaper.

Organise, organise, v. to form parts into a whole; to
Organism, organise, v. to form parts into a whole; to
Organon, organon, n. system; organic structure,
Organon, n. rules for scientific investiga-
Orgies, or jiz, n. drunken revels,
Oriel, o'riel, n. projecting window.
Orient, o'rient, n. the cant; adj. eastern.
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Orifices, or if is, n. an opening. [standard of France. Orificamme, or i-fiam, n. the ancient "gold farge" Origan, or i-fiam, n. the ancient "gold farge" Origan, or i-fiam, n. the ancient "gold farge" Original, or i-final, n. the quality of being Original, or i-final, n. to commence; to bring into Original, or i-final, n. to commence; to bring into Original, or i-final, n. a prayer. [existence. Ormer, or mer. n. an ear-shell. Ormolin, or mo-lin, n. brass or copper gilt. Ornanent, or milk-olit, n. a fossil bird. Ornaltholite, or-nik-oli-oli, n. s. cossil bird. Ornithology, or-nik-ol-oli, n. s. cossil bird. Ornithology, or-nik-ol-oli, n. s. cossil bird. Orology, or-ol-oli, n. the science of mountains. Orphan, or-final, n. thind without father or mother. Orphanage, or fin-il, n. a bringed instrument.
   Orphanage, or fan-ij. n. a home for orphans.
Orpharian, or-lêr'l-an, n. a stringed instrument.
Orpin, or jon, n. a deep gold colour.
Orra, or'â, adi, odd; discordant.
Orraey, or'cl. n. an instrument for illustrating the
movements of the planets.
Orthodog, or'tho-dos, adi, according to general
Orthographer, or'tho-dise, adi, according to general
Orthographer, or'th-og' lêter, n. a correct speller.
Orthography, or'th-og' rate, n. a correct speller.
Orthography, or'th-og' rate, n. the art of verse con-
Orthometry, or'th-om'-etri, n. the art of verse con-
Orthopadic, orth-o-p'dik, adi, relating to bodily
Ortive, or'tu, adi, eastern.
[deformity.
Og, og, n. a bone.
            Os, os, n. a bone.
Oscillate, os'il-āt, v. to sway; to swing.
Oscillate, ox'll-åt, v. to sway; to swing.
Oscillatory, ox'll-åt-ox'r, adv. swinging
Oscillatory, ox'll-åt-ox'r, adv. swinging
Oscillation, ox'll-åshun, n. gaping.
Oscillation, ox'll-åshun, n. gaping.
Oscillate, ox'll-åt, v. to kins.
Ossillate, ox'll-åshun, ox'l
      Ostlary, os'ti-ar-l, n. a church doorkeeper.
Ostracise, os'tra'siz, v. to banish
   Ostracise, os tra'siz, v. to banish
Ostracism, os'tra'sizm, n. proscription.
Otic, ō-tik, ad/, relating to the ear.
Otiose, ō'sh-los, ad/, lazy; careless.
Otiology, ō-tol'ō-li, v. science of the ear.
Ottan, o'fa, v. a fragrant oil distilled from flowers.
Ottoman, o'fō-man, v. a Turk; a cushioned seat.
Outble orbit ex have cateribles.
      Oubit, or bit, **, hary caterpillar.

Oubilette, oo-bit-et', **, a dungeon with no side open

Ourology, oo-rol'o-ji, **, the study of urinary matters.

Oust, owst, **, to expel : to force out.
Outs, owst, v. to expel; to force out.
Out, owt, adv. not in; abroal; off the mark.
Outbid, owt bid', v. to bid ligher than others.
Outcry, owt'kri, w. a cry of distress.
Outdo, owt-doo', v. to surpass; to outwit.
Outface, owt-fas', v. to confront; to brazen out.
Outfit, owt'fit, w. equipment.
Outgo, owt'go, w. expenditure; what goes out.
Outhouse, owt'hows, w. a small building adjacent to the chief one.
the chief one.
Outing, ow'ing, n. an siring; an excursion.
Outind, ow'ing, n. an siring; an excursion.
Outlandish, owt-land'ish, ad/, strange; vulgar;
Outlast, owt-last', v. to last longer than. [uncouth.
Outlaw, ow'ils, v. to lay out; n. expenditure.
Outlet, ow'ils, n. means of egress.
Outline, ow'ils, n. a sketch; exterior lines of a draw.
Outpace, owt-pas', v. to outstrip.
Outpoet, owt-pas', v. to outstrip.
Output, owt-pas', n. insult; violence.
Outrage, owt-rain, n. insult; violence.
Outrage, owt-rain, n. the utmost extremity; the bitter end.
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bitter end.

Outre, oo tra', edj. strained; extravagant; unusual.

Outride, owt-rid', as to ride faster than. Outrider, owt'ri-der, s. an advance rider; an attendant Outrider, owr-new, M. an advance rider; an attendant on horseback.
Outright, owt-rit, actv entirely; at mace.
Outset, owt-set, m. beginning; setting out.
Outakint, owt-settin, v. to leave behind; to pass.
Outstrip, owt-settin, v. to leave behind; to pass.
Outwork, owt-settin, v. to leave behind; to pass.
Outwork, owt-wet, w. to overgeach.
Outwork, owt-wet, w. to overgeach.
Ovarlous, owt-wit-w. acti, comprising eggs.
Ovary, o'va-ri, m. the part where the egg is formed.
Ovarlous, o-va'r-hus, acti, comprising eggs.
Ovary, o'va-ri, m. the part where the egg is formed.
Ovarlous, o-va'r-hus, m. public homage;
Over, o'ver, stryh, higher; above; beyond.
Overglis, o'ver-wax, m. loose over-trousers.
Overcharg, o-ver-ba'ring, adj, haughty.
Overcast, o-ver-kast', v. to cloud.
Overcharge, o'ver-charj, n. excessive change.
Overdraw, o-ver-draw', v. to exaggerate; to draw excessively. on horseback. excessively. Over-growth', n, what is overgrown.
Overfaul, Over-fawly, v, to investigate.
Overhear, Over-fawly, v, to investigate.
Overhear, Over-fawly, v, to look over; to survey.
Overpolae, Over-fold', v, to look over; to survey.
Overpolae, Over-polz', v, to outweigh.
Overraun, Over-survey, v, to run or spread over, [too far.
Overshot, Over-shot', ad, surpassed.
Overshot, Over-shot', ad, surpassed.
Overshot, Over-shot', ad, surpassed.
Overtuke, Over-tuke, v, to come even with. "Ian ofter.
Overtuke, Over-tuke, v, to come even with. "Ian ofter.
Overture, Over-tuke, v, to come even with. "Ian ofter.
Overwhelm, Over-whelm', v, to crush; to overcome; to flow over. to flow over. Ovicular, o-vik'ū-lar, adv pertaining to an egg. Ovicina, o'vi-tion, adv pertaining to an egg.
Ovitorm, o'vi-tion, adv, egg.shaped.
Oviparous, o'vi-tion, adv, egg.shaped.
Oviparous, o'vi-tion, adv, egg.shaping.
Ovile, o'vi, n, a little egg; a veed.
Owing, o'mg, adv, due; imputable to.
Own, on, v. to possess.
Oxidation, oks-id-a'shun, n, act of oxidising.
Oxide, oks'id, n, a chemical compound
Oxygen, oks'i-jen, n, the gaseous element which sustains life. sustains life. Oxygenate, oks'i-jen-āt, v. to unite with oxygen.
Oxygenous, oks-ij'en-us, ad, pertaining to oxygen.
Oxymel, oks'i-niel, n. a compound of honey and vinegar. Oxymoron, oks-I-mo'ron, n. ideas of contrary mean-Oyer, o'yer, n. the hearing of trials. [ing combined. Ozone, O'zon, n. oxygen augmented by electric influence. Pabular, pab'ū-lar, adj. esculent : fit for food.

Pabular, pab'ū.lar, adj. esculent: fit for food.
Pabulum, pab'u.lum, ". food; nourshment. [steps.
Pace, pās, n. a step: a strde: speed; v. to measure
Pacha, pā-shā! n. at Turkish governor.
Pachalic, pa-shā! n. adj. the terntory of a pacha.
Pachyderm, pak'ī-dem, n a thick-skinned animal.
Pachyderm, pak'ī-dem, adj. thick-footed.
Pacific, pā-siř lk, adj. peace-naking; calm; peaceful.
Pacify, pas'ī-fi, v. to appease; to soothe.
Pack, pak, n. a bundle; v. to arrange clove, to star
Packman, pak'man, n. a pedlar. [of rapidly.
Pact, pakt, n. a contract.
Pad. pad. n. anything stuffed with soft material; v. to Pact, pakt, n. a contract.

Pad, pad, n. anything stuffed with soft material; v to stuff; to walk. [v. to move a boat by paddling Paddle, pad'l, v. to play in water with hands or fee' Paddock, pad'lok, n. an inclosure.

Paddock, pad'lok, n. a hanging lock.

Pasan, pe'an, n. soing of riumpit

Pagan, pi'gan, n. a heathen.

Page, pij, n. a boy attendant.

Pagaadi, paj'ant, n. a pompous shon; 'public spec-Pagoda, pe'da, n. an Eastern dolt temple.

Paddeutics, pā-dù'dx, n. the science of teaching.

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Pàillasse, pal-yas', n. an under sattress of straw.
Pain, pān, n. physical or mental suffering.
Painter, pān'ter, n. an artist; one who paints; rope
Pair, pār, n. a cipuple.
Palace, yal'ās, n. a royal or noble sendence.
Paladin, pal'ādin, n. a knight-errant.
Palseography, pal-ē-og'raf-i, n. study of ancient writhing parts.
     ings. Palæology, pāl-ē-oli/h-lk, ad/, pertaining to the early Palæology, pāl-ē-oli/h-lk, ad/, pertaining to the early Palæology, pāl-ē-olt-oli/n, study of antiquities Palæontology, pāl-ē-ont-ol'o-ji, n. science of fossils. Palanquin, pal-an-kēn', n. Eastern covered conveyance carried on men's shoulders. [taste.
Palanquin, pal-an-kèn', n. Eastern covered convey-
ance carried on men's shoulders.
Palatable, pal'at-abl, adj. savoury; agreeable to the
Palatic, pal'at, n. the roof of the mouth; taste, [palace.
Palatial, pal-a'slad, adj' relating to or resembling a
Palatinate, pal-a'tin-āt, n. province of a palatine.
Palatine, pal'a-tin, adj. enjoying royal privileges.
Palaver, pal-a'ver, n. fiattering talk.
Palayer, pal-a'ver, n. fiattering talk.
Pale, pal, adj. palidi v. wan.
Paleaceous, pal-ē-ā'shius, adj. chaffy.
Palestra, pal-es'tra, n. wresting-place.
Paletot, pal'ē-to, n. a light overcoat.
Palette, pal'et, n. oval board used by palinters for
Palifrey, pal'fri. n. a saddle horse.
[colour nixing.
Palindrome, pal'in-al, adj going backward.
Palindrome, pal'in-al, adj going backward.
Palindrome, pal'in-al, ad fonce.
Palindrome, pal'in-droin, n. a word, sentence, or line that reads the same backward as forward.

Paling, p. a fonce
Paling enesis, pal-in-dr, or fonce
Paling enesis, pal-in-dr, or fonce
Paling enesis, pal-in-dr, n. a poem of recuration.
Palisade, pal-in-dr, n. a poem of recuration.
Palisade, pal-in-dr, n. fortification of pales.
Palisade, pal-in-dr, n. fortification covering.
Palisade, pal-in-dr, n. means of safety.
Palisade, pal-in-dr, n. means of safety.
Palisade, pal-in-dr, n. n. means of safety.
Palisade, pal-in-dr, n. n. that which intigates.
Palilid, pal'id, adj. pale; wan.
Pallid, pal'id, adj. pale; wan.
Pallid, pal'id-in, n. a la ac Roman mantle.
Pallor, pal'or, n. paleness.
Paling, pal'id-in, n. a la ac Roman mantle.
Palmer, pal'id-in, n. a la ac Roman mantle.
Palmer, palmer, n. a pigrin.
Palmiter, palmer, n. a pigrin.
Palmiter, palmer, n. a pigrin.
Palmitery, pal'mi-tr, n. dwining by the hand.
Palmitery, pal'mi-tr, n. fd, obtained from palm of.
Palmiter, pal'mi-tr, n. fd, obtained from palm of.
Palmer, pal'mi-tr, n. fd, obtained from palm of.
Palmerine, pal'mi-tr, n. fd, obtained from palm of.
Palmerine, pal'mi-tr, n. fd, pales pa
     Pamper, pan'ucut, sat/, relating to marshes.

Pamper, pam'per, v. to glut

Pamphlet, pam'fet, s. an unbound book.

Pamphleteer, pam'fet, s. a pamphlet writer.

Pan, pan, n. a shallow vessel.
       Panacea, pan-a-sé'ā. n a universal cure
     ranacea, pan-a-se a. n a universal cure.
Panary, pan'a-ri, ady. relating to bread.
Panax, pa-naks', n. a kind of shrub.
Pancake, pan'kāk, n a thin cake made in a frying pan.
     Panch, panistar, n a tim care made in a trying pan.
Panch, pansh, n a mat made of route.
Pancratium, pan-krā'shi-un, n. combined boxing and
Pand, n a bed curtain.
Pandect, pan'dokt, n. a treatise dealing with an entire
Pandemic, pan-den'ik, adı epidemic. [science.
Pandemichium, pan-de-in'ni-un, n. assemblage of
     demons.

Pander, pan'der, v. to minister to; to procure.

Pandereas, pan-der-es', n procuress.

Pandiculation, pan-dik-ū-ki'shun, n yawning; stretch-Pandion, pan-di'on, n a kind of baprey.

[mg. Pane, pan, n, a plate of glass.

Panel, pan'el, n, a rectangular space of wainscot, door, Panel, pan'el, n, a rectangular space of wainscot, door, panel, pan'el, n, a sudden pain.
     Pang, n. a sudden pain. [or wall. Pang, n. a sudden fright. [tron. Panidrosis, pan-l-dro'sis, n. general bodily perspira-Pannage, pan'āj, n. food picked up in webds by hogs.
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Panniar, pan'i-er, s. a basket carried on horse- or mule-
Pannikin, pan'i-kin, s. a small pan. [back.
Panopiy, pan'o-pit, s. full equipment in armour.
Panopiton, pan-op'ti-kon, s. a show-room; a prison
admitting of all prisoners being seen from one point.
    attmitting of all prisoners being seen from one point. Panorama, pan-0-ran'd. n. a complete view; a series of pictures on a roll.

Panotype, pan'd-tip, n. a collodion picture.

Pansy, pan'st, n. a cultivated violet.

Pant, v. to breathe randly; to thoto.

Pantaloon, pan-la-loon', n. a pantomime buffoon.

Pantheon, pan'd-fan, n. the theory that the universe is God.

Pantheon, pan'd-fan, n. temple dedicated to deliver.
    Pantheon, pan'/#eon. n. temple dedicated to delties. Pantouffle, pan'/dooff, n. a slipper. Pantograph, jan'/to-graf, n. a copying instrument. Pantology, pan-off-jf, n. universal knowledge. Pantometer, pantom'ed-ter, n. instrument for measur-
                            ing angles.
        Pantomime, pan'tō-mim, n. dumb show; a Christmas Papacy, pā'pā-sī, n. the papal office. [piece.
      Paparerous, pa-pav'er us, ad, poppy-like,
Paparerous, pa-pav'er us, ad, poppy-like,
Paper, pa'per, n, material made from rags or fibres.
Paphian, pa'ff an, ad/ lascivious,
      Papier-maché, pap'yā-mā'shā, n. japanned pulp.
Papilionaceous, pa-pil-) un-a'shus, adj. hutt
                            shaped.
      Papillary, pap il-ar-7, at 1. furnished with or resembling l'apillote, pap'il-ôt, n a curl-1 aver. [nipples. Papoose, pa-poos', n a Red Indian Infant.
        Pappous, pap'us, adj. covered with down.
Papulous, pap'u-lus, adj. covered with blisters.
      Papprus, pa-pi'rus, any covered with obsers.

Papyrus, pa-pi'rus, n paper made from an Egyptian.

Parable, parable, n, an allegorical narrative.

Parable, parable(y's), n distortedivision.
      Parabole, par-alvely-ss, n distorted vision.

Parabole, par-alvels, n a conc section.

Parabolic, par-alvels, n a conc section.

Parabolic, par-alvels, n an universalite apparatus used in descending from a balloon.

Paraclete, par'aktit, n an advocate; the Holy Parade, ph-rid, n to march; to show off; n, military display, place for promenading

Paradlem, par'alvels, n an example.
    ranace, ps.-rac., v to march: to show oi; n. mittary display, place for promenading Paradigm, parå-dim, n an example. Paradige, parå-dim, n an example. Paradigm, parå-dim, n an example. Paraden, parå-di, n. legal equality. Paragenesis, para-jen è-is, n hybridism. Paragenesis, para-jen è-is, n hybridism. Paragram, parå-gram, n a perfect example. Paragram, parå-gram, n a perfect example. Paragram, parå-gram, n seeming change of position in a beavenity body as seem from dise ent points. Parallelogram, para-le-logstam, n a plane of four sides, the opposite sides being equal Parallelogram, para-le-logstam, n a plane of four sides, the opposite sides being equal Parallelogram, para-de-logstam, n a plane of four sides, the opposite sides being equal Parallelogram, para-de-logstam, n/d. dominant superior. Paramount, para-mount, and kinde. Paragenetic para-pet, n a blovet, in an illicit sense. Parange, para-pet, n a brosstwork of defence.
Parapet, para pet, n a breastwork of defence.

Paraphernalia, para fer na'll-a, n, trappings; apparel.

Paraphrase, para fraz, n a free translation.
   Paraphrase, pair-a-frik, n a free translation.

Parapsis, par-apriss, n. defective sense of touch.

Paraselene, par-apriss, n. defective sense of touch.

Paraselene, par-a-filene, n mock moon seen when lunar rainhow visible.

[phant, paraselene]

Parasele, par-raselene, one living upon another; a syco-Paratonic, par-a-ton'ik, adi, retarding vegetation.

Paroel, par-sel, n. n a bundle.

Parcenary, par'sel, n. n a bundle.

Parcenary, par'sel, n., n sheepskin for writing Parchment, parch'ment, n. sheepskin for writing Pard, pard, n. a leopard.

Pardona, pard'on, v. to forgive; n. forgiveness.

Pare, par, v. to cut off the skin of fruit, vegetables, etc.

Paregoric, par-e-gor'ik, n. tincture of colum.
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nnel, pan'el, n a rectangular space of wainscot, door, ang, n, a sudden pain.

Jor wall, pan'el, n, sudden fright.

Jor wall, pan'el, n, sudden fright.

Jor wall, considerable of the constant of the constan

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Parergon, pa-rergon, n. subsidiary work.
Paresta, par's-sis, n. partial paralysis.
Parget, par'jet, n. gypsun.
Parhelion, pa-he'il-in, n. a mock sun.
Parlah, pa'n'a, n. an outcast.
   Parish, pa'ri-a, m. an outcast. [porcelain. Parish, pa'ri-a, adj. relating to Paros; n. a fine Parietal, pà-ri'c-tal, adj. relating to or part of a wall. Paring, pā'ring, m. a thin strip cut off. Parish, par-ish, n. a church district. Parisian, par-isl-an, n. a resident of Paris. Parisyliable, par-isl-àdrik, adj. having the same number of syllables. e Parity, parit-l, n. analogy; equality. Paris, pairi, n. enclosed pleasure-land. Pariance, par'lans, n. speech; talk. Parley, par'li, v. to discuss. Pariour, par'lor, n. a sitting-room. Parochial, par-ôk-la, a'/r rolating to a parish. Parody, par'o di, n. a burlesque. Parole, par'o', n. word of honour; pass-word.
                                                                                                                                                                                                                                            [porcelain.
   Parody, paro dl. n. a burlesque.

Parole, parol', n. word of honour; pass-word.

Parosmia, par-or'lin. n. defective sense of smell.

Parotid, par-or'lin. n. the largest of the salvary glands.

Parotysm, par-oks-izm, n. sudden fit of pam.

Parquet, par'ket', n. inhald woodwork for floors.

Part, par, n. a young salmon.

Parrhessa, par-ossa, n. forwardness of speech.

Parrigide, par'i-sid, n. a murdorer.

Parry, par'l. v. to prevent; to ward off.

Parse, pars, v. to state the grammatical sense of words and sentences.

Parsee, pars'e. n. a Zorgastriau Indian
   and sentences.

Parsee, pār-šē, n a Zoroastriau Indian

Parsmony, pār-ši-mund, n mggaddiues; frugality.

Parson, pār-ši-mund, n mggaddiues; frugality.

Part, pārt, n. less than the whole, character m a play

Partake, pār-šik', v. to hacea share m, as of too!

Parterre, pār-šir', n a flower plot

Parthenogenesis, par-theno (dri-š-šis, n. repro ba-
thon of usects by the female only.

Partial articles of instances and in mat-
   Partial, par'shal, ad' untart one sided, in part.
Partible par'shal, ad' untart one sided, in part.
Partible par'shal, ad' divisible.
Participate, partisipat, v to partiske
Participle, partisipal, u, a word containing the
qualities of both verb and noun
    Particle, par'ti ki, n a jot; a minute part; an atom Particular, par-tik'u-lar, air, special; relating to a Partim, part'im, aire, in part (specified thing.
   Partisan, partit, ad, divided inte parts.

Partite, partit, ad, divided inte parts.

Partition, partish'un, n a division.

Partlet, partlet, i, a raff
   Partner, part'ner, n. a business associate.
Partner, partner, m a business associate, Part-song, part-song, m a song sung in parts. Parturition, par-tu-nsh'un, m delivery; act of birth Party, pār'ti, m persons acting together for any special Parvenu, par'ven-u, m an upstart. [purpose. Paschalp, pas'kal, m. the Passover. Pascuage, pas'kal, m. cattle-pasturage. Pasha, Pashalic. See Parha, Pachalic. Pasquinade, pas'kwin-ād, m a lampoon. Pass, pas, w to move by, to elapse. Passable, pas'abl, ad/, tolerable. Passable, pas'abl, ad/, tolerable. Passable, pas'āj, m. act of passung; hall-way; voyage. Passable, pas'āj, m. act, n. a traveller in a public con-Passenger, pas'en-jer, m, a traveller in a public con-
                                                                                                                                                                                                                                               lvevance. 6
   reasse, pas-r, aar, raced; out of date [veyance pas-senger, nas traveller in a public con-
Passer, pas-cr, n. one who passer. Passerine, pas-cr-n, adv relating to the sparrow
Passible, pas-th, adv. impressionable. [tribe.
Passim, pas-im, adv. here and there.
   Passing, pas'ing, adj. going by ; happening.
   Passing, pas ing, an, going by; nappening, passing, passing, as trong emotion; excessive lesire. Passive, pas'iv, ad; inactive; unresisting. (travel. Passport, pas'port, n. licence; written permission to
   Paste, past, n. a soft cement made of flour, water, etc.

Paste, past, n. a soft cement made of flour, water, etc.

Paste board, past'bord, n. card-board.

Pastel, past tel, n. a chalk drawing.

Pastern, past'en, n. part of hoof.

Pastiche, past-teln', n. a mixture, in music, painting,

Pastille, past'en', n. a lozenge.

[etc.

Pastime, nay'im, n. recreation
   Pastime, pas'tim, n. recreation.
   Pastor, pas'tur, n. a clergyman; a shepherd. Pasture, past'ur, n. grazing grass.
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Pat, ad/. to the point; apt.
Patch, pach, n. a place sewed on; a plot; v. to mend.
Patch, pat, n. a place sewed on; a plot; v. to mend.
Patchla, pd. d. n. a. small dish; the knee-pay
Paten, paten, n. plate used in the eucharist.
Patent, pätent, n. obvous; grant of right to an inven-
Paternal, pa-ternal, ad/. fatherly
Paternoster, päter-nos'ter, n. Lord's Prayer.
Path, path-ik, n. a way; a track.
Pathetich, path-et'ik, ad/. touching; affecting.
Pathetism, path'et, m. n. animal magnetism.
Pathic, path'ik, ad/. relating to disease. [passions.
Pathology, path-ol'o-li, n. science of diseases.
Pathology, path-ol'o-li, n. science of diseases.
Pationalny, path'id, and.
Pationalny, path'id, n. a. endurance; forbearance.
Patina, path'in-i, n. a pan.
   Pat, adj. to the point; apt.
  Pattina, pat'in-4, n. a pan.
Pattina, pat'un-4, n. a pan.
Pattia, pat-waw', n. dialect.
Pattiarch, pa'tri-ark, n. a head of a church or family.
 Patrianch, pa'tri-ark, n. a head of a church or lamity.

Patrician, pa'rish'an, n. a noble.

Patricide, pat'ri-sid, n. the murder or murderer of a

Patrimony, pat'ri-mun!, n. property inheracet.

Patriot, pa'tri-ot, n. one devoted to his country.

Patristic, pat-ris'tik, adj. relating to the early

Christian fathers.

[camp or district.
 Patrol, pi-trol', v. to guard; to go the rounds of a Patron, pi'tron, n an encourager, a protector. Patronymic, pat-rō-nm'ik, n the family name. Patten, pat en, n, a clog; base of a column.
   Patter, pat'er, n. rapid sound or utterance.
 Patter, pat'er, n. rapp's sound or utterance,
Pattern, pat'ern, n. a model.
Paucity, paw'stt l. n. meagreness; fewness.
Pauline, paw'lin, ady, relating to the Apostle Paul,
Pauper, paw'per, n. one who receives parish relief.
Pause, paw, n. cessation, v. to make a panse
Pave, pav, v. to preparie; to lay stones on a road.
Pavid, pav'id, ady, thind
Paviline, resulting, n. a. better tent; a dowed building
 Pavihon, pa-vil'ynn, n. a large tent; a domed building.
Pavonine, pav'o-nin, adj. relating to or resembling the
peacock. [with the foor.
 peacock. [with the foot. Paw, n. the foot of an animal; v. to beat the ground
 raw, n. me toot of an animal; v. to beat the ground Pawm, n. a thing given as security; v to pledge. Pawmbroker, pawn'broker, n one who lends money on security of things left in his charge. Pax, paks, n. the kiss of peace. Its settle an account. Pay, pai, n. salary; wages; v. to requite with money; Paynise, pāniz, v to harden and preserve Peace. Des. n. quet; calimness. Iranounitar.
 Peace, pes, n. quiet; califfices, tranquility.
Peak, pek, n. a point, a headland.
 Peal, pel, n. a ringing.
Pearlash, perl'ash, n refined potash.
  Peart, pert, ad), saucy,
Peasant, pez'ant, n. a country labourer.
Pease, pez, n. crushed peas.
   Peat, jet, n. decayed vegetable matter, turf.
Pebble, peb'l, n a small rounded stone.
Peccable, pek'abl, adj. hable to sin.
 Peccadile, pek-a-dif), nather to sin.

Peccadillo, pek-a-dif), n a petty fault.

Peccavi, pek-i-fi, exc.! I have sinned.

Peck, pek, n quarter of a bushel; v. to strike with

Pectic, pek'tik, ad' curding.

[the beak.

Pectonal, pek'tin al, ad', comb-like.

Pectonal, pek'tin al, ad', comb-like.

Peculate, pek'u iat, v. to embezgle.

Peculate, pek'u iat, v. to embezgle.

Peculate, v. pek'u iat, v. to embezgle.
 Pecuniar, pe ku har, any, singular,
Pecuniary, pe ku'sh-ari, any, relating to money.
Pedagogue, ped'a-gog, n a schoolmaster; a teacher.
Pedant, ped'ant, n, a scholastic pretender.
  Peddle, ped'l, v. to hawk goods
 Peddling, ped'hng, ady, trifing.
Pedestal, ped'es tal, n. the base of a column.
Pedestal, ped es tat, n. tue Dave of a Column.
Pedestrian, ped-evirfann, z. one who walks
Ped. cular, ped-lvir, n. treatment of corns.
Pedigree, ped'l-grē, n. particulars of lineage.
Pediment, ped'l-ment, n. the pak over a portico.
Pedobaptiat, pêd-o-bap'tist, n. a belièver in infant
bantiem.
                                                                                                                                                                         (tering steps
                 baptism.
 Pedometer, ped-om'ë-ter, s. an instrument for regis-
Pedotrophy, pë-dot'rō-fl, s. children rearing.
Pedum, pë'dum, s. shepherd's crook.
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Peduncie, pë-dung'kl, st. stem of flower or fruit.
Peek, pëk, v. to spy; to peer.
Peer, gër, s. one of equal status; a nobleman.
Peerrea, për'es, s. the wife of a peer.
Peerleas, për'es, say, unequalled; matchless.
Peevish, pë'vish, say, freiful; ill-humoured.
      Peg, n. a wooden fastening pin.
   Feg. n. a wost-an asseming pn. Pegasus, peg'as-us, n. the winged horse; a constella-
Pegmatite, peg'ma-lit, n. a kind of granite. [tion.
Pelagite, pe-lay'ik, adj, inhabiting occan depths.
Pelagite, pe-lay'ik, adj, inhabiting occan depths.
 Peletine, per-arm, m, a tipper with noise can
Pelif, m, money; booty,
Peliase, peles', m, a sleeved cloak for ladies.
Pellipel, m, a skin or hide.
Pellicid, pell'et, m, a small ball.
Pellicid, pell'sid, ad, clear, transparent.
Pelma, pcl'mä, m, the sole of the foot.
Pelt. m, aw hde: v, to throw out.
   Pelt, n. raw hide; v. to throw out.

Pelvis, pelvis, n. bones at the lower part of the belly.

Pemmican, penvik an, n. cakes of dried meat.
   Pen, n. an instrument to write with; place for confin-
                        ing animals; v. to confine.
   Penal, pe'nal, ad), relating to punishment.
Penalty, pen'al-tl, n. a fine.
 Penairy, pen ai-t., n. a me.
Penance, pen'ans, n. atonement.
Penanular, pen-air'ū-lar, nil', ring-chaped.
Penates, pe na'tēz, n. household gods.
Penchant, pang-shāng', n. has; strong mehration
Pencil, pen'sil, n. a pointed brush or unstrument for
writing or drawing.
   Pendant, pen'dant, n. appendage; an ear-ring; a flag. Pendicle, pen'dakt, n. an appendage Pending, pend'ing, ad/, undetermined. Pendulum, pen'di-lun, n. a swinging weight. [ing. Penetralia, pen-6-tridlea, n. the inner parts of a build-Penetralia, pen-6-tridlea, n. the inner parts of a build-Penetralia, pen-6-tridlea, n. the inner parts of a build-Penetralia.
 Penetratia, pen-6-174/li-a, n. the inner parts of a build-
Penetrate, pen-6-trid, v to perce into; to enter.
Penetration, pen-6-trid/shun, n discernment; entrance.
Penistone, pen-in-son, n a course cloth.
Penistone, pen-in-son, n a course cloth.
Penitent, pen-f-tent, adv repentant.
Pennetrative, pen-f tent, senson, n a prison.
Penna, pen-a, n, a feather
Pennetrative pendetration and penson.
   Pennant, pen'ant, a. a long, narrow flag.
    Pennate, pen'at, adl, winged
   Pennon, pen on, a flag; a pinion.
Pennyweight, pen'l-weyt, r 24 grams.
Penny-wise, pen'l-wey, ad/ wise over small sums.
Penniogy, pensolosis in the study of punishment, Pensile, pensils, adi, hanging.
Pension, pensils, adi, hanging.
Pension, pensils, adi, hanging.
Pension, pensils, adi, hanging.
Pension, pensils, adi, said; thoughtitil.
Pentagon, pensils, and the said; the pentagon pensils, pensils, and the said said.
Pentagon, pensils, and pensils, and having five angles.
Pentagon, pensils, and pensils, and pentagon, pensils, and pensils, and pensils.
   Pentarchy, pent'arkal, n. government by five people.
Pentateuch, pen'ta-tak, n. the five bools of Moses.
   Penteteric, pent-et-er'ik, a.l., happening every five years. [building. Pent-house, pent'hows, u. shed slopning from a main
   Pentroof, pent'roof, n a root sloping only on one side.
   Penultimate, pen-ul'tim-it, adj. last syllable but one.
 Penumbra, pen-un'bra, n a dun shadow.
Penurious, pen-ur'ri-us, adv mean: stingy.
Penury, pen'u'ri, n excessive poverty.
 People, pc. il. n. ankind generally, unbaliants of a Pepsia, pc. il. n. ankind generally, unbaliants of a Pepsia, pc. il. n. a constituent of the gastric Juice. Peptic, pc. il. n. n. il. pc. il. pc.
Perambulate, per-un'bū-līt. v. to walk.

Perceant, per'sunt, ad', piercung.

Perceive, per-sēv', v. to discern, to siscrve. [ing.

Perceive, per-sēv', v. to discern, to siscrve.

Perceive, per-sēv', v. to discern, to siscrve.

Perceive, per-sēv', v. to discern, to siscrve.

Perceive, per-sēv', v. to siscre discerning througher perceive, per kie', v. to strike violently.

Perceive, per-dist'n, v. to strike violently.

Perdition, per-dist'n, n. hades; ruin.

Perdu, per-dis'n, ad. lost to sight.
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Perdatable, per'dü-ra-bl, ad/, lasting.

Peregrination, per-e-grin-a'shun, n. wandering.

Peremptory, per'empt-o-ri, ad/, commandful; decl-

Perennate, per-en'ai, v. to live continually. [sive.

Perennial, per-en'nial, ad/, perpetual.

Perfect, per'fekt, ad/, complete; without fault.

Perfertyd, per-fer'ud, ad/, very eager.

Perfiddous, per-fid'i-a, ad/, treacherous; hateful.

Perforate, per'for-fai, v. to pierce; to penetrate.

Perforate, per-for-fai, v. to pierce; to penetrate.

Perform, per-form', y. to do; to achieve; to act; to

Perfumery per-fum'er-l, n. stock of perfumes.

Perfumery per-fum'er-l, n. stock of perfumes.

Perfunery, per-fungk'o-n', ad/, indiferent; careless.

Perfuse, per-fur', v. to pour over.

Perioating, per-si-kārd'i-um, n. relating to the heart.

Perncanjum, per-i-kārd'i-um, n. membrane sur-

rounding the crantum.

Perdental, per-dental, ad/ surrounding the teeth.
    Peridental, per-I-dent'al, ady surrounding the teeth.
   Perigee, per'i-je, n the point of the moon's orbit
nearest to the earth. [nearest the sun.
   Perihelion, per-he'lf-on, n. the point of planet's orbit
Peril, per'il, n. danger; v. to endanger.
   Perimeter, pe-run'ct-er, n outer boundary of figure.
Perimorph, per'i-morf, n. one autheral enclosing
 another.

Period, pë'ri-od, n. a series of years, an interval of time, conclusion; pimetuatius mark ().

Peripatetic, per i pa-tet ik, ad, walking about Periphery, perd'er-i, n. a circumayertoe.

Periphrase, perl-fisāz, n. circumayettom.

Periptus, perl-fisāz, n. a circumayettom.

Peripterous, per-pt'er-us, ad/ feathered on all sides.

Perish, perish, v. to de; to decay.

Perspheric, per-is-feek, ad; globular.

Peristalici, per-is-feek, ad; wom-ike

Peristyle, per-is-th, v. columns circling a building.

Perrwinkle, per'i-wing, v. a sinall wig

Perrwinkle, per'i-wingk', v. a sinall shell-fish.

Perjury, per'jer-j, v. false swearing.

Perk, perk, v. to peer

Permanence, per man-ens, v. fixedness

Permeable, per'meabl, ad/, penetrapic.
                      another
   Permeable, per më-abl, adj. penetranic.
Perman, per mi-an, n. strata of the Palæozoic series.
   Permian, perintian, n. stram of management Permissive, per-inis'iv, adr. allowing [tuted for another.]
 Permissive, per-inis'iv, adv allowing Permit, per-inis', per onlow. Inted for another. Permitable, per mut'abl, adv capable of being substi-Pernicious, per-inis'iv, adv herful, bod. Perporation, per-o-ris'shin, n the concluding part of a Perpend, per-pend; p. to consider. Speech. Perpendicular, per-pendik ülar, adv upright. Perpetrate, per-pe-trait', p. to commit; to do. Perpetrate, per-pe-trait', p. to commit; to do. Perpetral, per-perks', p. to confuse Perquisite, per-perks', p. to confuse Perquisite, per'her, n a stone hurling machine. Perrs, per'l-er, n a stone hurling machine.
   Perry, peril, n. l everage made from pears
Persecute, persecher, r. to orpress; to affect.
Persecutor, persecher, n. one who persecutes.
   Persevere, persever', v to persest.
Persiffage, per'si-fiàzh, v. baster.
Persist, persest', v. to persevere.
   Person, per'son, n. an individual
Personable, per'son-ubl, adv of good appearance.
 rersonante, per son-tis, act of good appearance. Personage, per son-si, n an enemet person. Personality, per-son-all'it-l, n, personal property. Personation, per-son-si-shun, n the act of personating. Personnel, ne. persons comprised. Perspective, per-spective, n. a view; art of drawing so as to express distance.
 as to express distance.

Perspicaceous, perspik i'shins, adj. clear; hicid,
Perspire, perspir, v. to sweat.

Persuade, perswadt, v. to influence; to coax.

Pert, pert, w. saucy; hicly.

Pertain, pertain, v. to belong.

Pertinacity, pertin-as'lt-l, w. obstinate insistence.

Pertinacity, pertin-ad, suitable; fit: to the point.

Perturit, pertin-rit, adj. suitable; fit: to the point.

Perturit, pertin-rit, w. to agitate; to disturb.

Pertuse, pertin', v. to read.

[thing sharp]
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Pervade, per-vad', v. to spread over; to peneti te.

Perverse, per-vers', ed/. stubborn; contradicto;
Perversion, per-ver'shun, n. a wrong use. [froward.
Pervert, per-vert', v. to mislead; to corrupt; to distort.
                                                                                                                                                                                                                                                                        Phrenzy, fren'zi, n. madness.
Phronesia, frônc'sis, n. practical wisdom.
Phthistical, tri'k-al, adr. pertaining to lung dis ase.
Physology, fi.kol'ô-ji, n. study of scaweeds.
Physology fi.lably all n. physology.
                                                                                                                                                                                                                                                                       Physology, fi-ko'o-ji, n. study of seaweds.

Phylactery, fi-lak'tet-f. n. a charm.

Phyllite, fil'f. n. clay-slate.

Phyllidd, fil'old, adj. leaf-like.

Physician, fiz'is-la, adj. pertaining to the body, or

Physician, fiz-is-f'an, n. one skilled in the use of

Physician, fiz'is-f'an, s. student of nature.

Physics, fiz'is-f, n. a student of nature.

Physics, fiz'is-f, n. the science of nature.
  Pervious, pervi-us, adj. penetrable.

Pesky, pesk'l, adj. annoying.

Pessimism, pes'in-izm, s. the theory that things are

Pess, s. a plague; an annoying person. [generally bad.
Pessímism, pes'im-izm, n. the theory that things are pest, n. a plague; an annoying person. [generally bad. Pester, pes'ter, v. to annoy.
Pestlent, pes'til-ent, n. adv. noxious; infectious; cor-Pestle, pes'l. n. pounding instrument.
Petalous, pes'al-us, adv. having; teals.
Petard, pe-tard', n. a morter for blowing up fortifica-Petard, petard, n. a peat log.
Petachial, pet-ek'tal, adv. fever-spotted.
Petiolo, pet'i-di, n. a leaf stalk.
Petition, pé-tish'un, n. a request; a prayer; an ap-Petrean, pe-trèlan, adv. relating to rock.

[peal. Petrity, pet'i-di, v. to transform to stone.
Petrol, pet'i-di, v. to transform to stone.
Petrol, pet'ro-nel, n. a horse-pistol.
Petrity, pet'ro-nel, n. a horse-pistol.
Petticoat, pet'i-köt, n. a woman's under garment.
Pettifogger, pet'-loger, n. a petty lawyer.
Pettidah, pet'ish, adv. peevish.
Petty, pet'i, adv. triling; small.
Petulance, pet'u-lans, n. irritability; peevishness.
Pew, pū, n. an enclosed sitting m a place of worship.
Pewwert, pew'ter, n. an alloy of tin and lead.
Phalanx, fan'tarm, n. a hallacmation, a vision.
Phantasm, fan'tarm, n. a hallacmation, a vision.
Phantasm fan'tarm, n. a hantar-mi-officies.

illusive
                                                                                                                                                                                                                                                                     Physiognomy, fiz-log'no-mi, s. face study. Physiography, fiz-log'ra-fi. s. physical geography. Physiography, fiz-log'ra-fi. s. physical geography. Physiology, fiz-log'l-j. s. the science of life. Physiology, fiz-log'l-j. s. the science of life. Physiology, fiz-log'l-ji. s. botany. Phytology, fi-log'l-ji. s. botany. Placular, pi-ak'l-lar, ads. explaiery. Planist, pi-ak'l-lar, ads. explaiery. Planist, pi-ak'l-lar, ads. explaiery. Planist, pi-ak'l-lar, a well-known keyed instru-Plazza, pi-ak'l, s. a portico. Plazeh, pi-ak'l, s. a portico. Ploroch, pë'irroh, s. a simil fluyed on the bagpipes. Plca, pi'ka, s. a size of type; a magpic. Plcacon, pika-spoon', s. a small flute. Plck, pik, b. to perce; to gather; to choose; s. s.
                                                                                                                                                                                                                                                                         Physiognomy, fiz-I-og'no-mi, n. face study.
                                                                                                                                                                                                                                                                       Piccolo, pik'o-10, m. a small flute.

Pick, pik, u. to pierce; to gather; to choose; n. a

sirking implement.

Pick, pik, u. to pierce; to gather; to choose; n. a

sirking implement.

Pickappik de m. articles preserved in salt and vinegar.

Pickpocket, pik' pok-et, n. a pocket rifler.

Picnic, pik link, n. an open-ar pleasure party.

Pictorial, pik-to'ri-al, ac/t, pertaming to pictures

Picture, pik' ur, n. a panting; a representation.

Piddle, pid'l, v. to trifle.

Piebald, p'D'awid, ad/, varicoloured.

Piece, pes, n. a part of anything; a play.

Pied, pid, ad/, spotted; variegated.

[into the sea.

Pier, per, n. a wharf; a projecting roadway extending

Pierce, per, n. v. to jenetrate.
   Phantasm, fan'tazm, n. a hallucmation, a vision.
Phantasmagoria, fan-taz-mū-gò'rī-a, n. ill
                                                                                                                                                                                                                        illusive
  Phanton, farrom, n. spectre [mages. Pharitation], farrom, n. spectre [mages. Pharitation], farrom, n. medicine preparation. Phase, faz, n. vicw: aspect. Chemomenon, formire non, n. an unusual appearance.
   Phial, fl'al, n. a small bottle.
  Philander, fil-an'der, v. to firt; to make love.

Philanthropy, fil-an'thro-pi, n. love of mankind.

Philately, fil-at'e-li, n. stamp collecting.
                                                                                                                                                                                                                                                                           Pierce, pers, v. to penetrate.
                                                                                                                                                                                                                                                                        Pierce, pers, v. to penetrate.

Pier-glass, pēr'glas, v., a murror between windows.

Piernan, pie-ri-an, adv. relating to the Muses.

Pierrot, pye-rō', vi. a bufloon; a pantominie character.

Pietism, pi'et-izn, v. doctrine of the Pietists.

Piety, pi'et-i, v. religious veneration, goodness.

Pig, pig, v., a swine; a mass of metal.

Pigment, pig'ment, v., paint; colouring matter.

Pierror, pirtul v. a dayf.
  Philharmonic, fil-hār-mon'ık, ad., loving harmony. Philharmonic, fil-hār-mon'ık, ad., loving harmony. Philippic, fil-harmon, an uncultured person.
  Philistine, mistin, n. an unculured person.
Philogyny, fil-0/i-n, n. love of women.
Philology, fil-0/i-n, n. study of language.
Philomath, fil'0-math, n. one devoted to learning.
Philomel, fil'0-mel, n. the mghtingalo.
Philomel, fil-0-pl-lem'th, adj. cager for war or
Philopogenitiveness, fil-0-pi-0-pi-fit-iv-nes, n. love of
Philosopher, fil-0-5-0-fe-n, n. a reasoner. [offspring.
Philotechnic, fil-0-tek'nik, adj. devoted to the arts.
Philotechnic, fil-0-tek'nik, adj. devoted to the arts.
                                                                                                                                                                                                                                                                         Pigmy, pig'ni, n. a dwarf
Pike, pik, n. a weapon with a spear-like head; a fish.
Pilar, pi'lar, ad; harry.
                                                                                                                                                                                                                                                                           Piles, pilz, n. hæmorrhoids.
                                                                                                                                                                                                                                                                           Pilfer, pilfer, v. to steal small things.
                                                                                                                                                                                                                                                                         Pilgrim, pil'grim, n. one who journeys to a holy place Pill, pil, n. a small medicine ball. Pillage, pil'āļ, n. plunder. Pillage, pil'āļ, n. plunder. Pillag, pil'ar, n. a detached column or support.
   Philter, fil'ter, n. a love charm.
Philebotomy, fle-bot'om-i, n. the art of vein opening.
  Phiemotomy, it hot only, n. the art of year opening. Phiegm, fient, n. viscol matter.
Phiegmatic, fieg-mat'ik, ad, cold; sluggish. Phonate, fo'nat, v. to make vocal utterance.
Phonetics, fo net'iks, n. science of articulate sounds. Phonograph, fo'no-graf, n. a sound recording and repeating instrument Phonography, fon-og'raft, n. shorthand. Phonology, fon-og'o-fit, n. phonetics.
Phonotype, fo'no-di-o-fit, n. type indicating sound. Phosphor, fos'for, n. the morning star.
Phosphorescence, fos-for-ex'ens, n. luminousness.
Phosphorescence, fos-for-ex'ens, n. luminousness.
                                                                                                                                                                                                                                                                           Pillion, pil'yun, n. a seat for a woman to ride behind a nian on horseback.
                                                                                                                                                                                                                                                                         Pillory, pillorf, n a frame in which offenders were Jupon.
Pillory, pillorf, n a frame in which offenders were Jupon.
Pillow, pillor, n, a stuffed cushion to rest the head Pilot, pillor, n ane who guides ships in and out of Pilous, pillor, and harry.

[harbour.]
                                                                                                                                                                                                                                                                           Pimp, n. a pander.
Pimple, pimp'l, n. a pustule.
  Phosphorescence, 10s-10r-s rns, n. namananas, Phosphorus, fos/for-us, n. a combustible substance. Phossy-jaw, fos/f-jaw, n. phosphorous poisoning. Photogenic, fo-to-jen'ik, adj. pertaining to photography.
                                                                                                                                                                                                                                                                            Pinafore, pin'a-for, n. a child's apron.
                                                                                                                                                                                                                                                                        Pinafore, pin'a-tor, n. a cinic a pron.
Pince-ner, pangy'na, n. eye-ghases.
Pincchers, pinsh'ers, n. pincers.
Pinc, pin, n. a cone-braring tree; v. to grieve; to
Pineal, pin, n. a cone-braring tree; v. to grieve; to
Pineal, pin'eal, ad/, relating to the pine.
Pinfold, pin'fold, n. a pound for cattle.
Ping, ping, n. a whisting sound, as of a builet.
Pinlon, pin'yan, n. a wing; v. to bund.
Pink. n. host red colour: v. to stab.
  Photogenic, 10-to-jen'ik, adv. pertaining to intotagraphy.

Photograph, fô'tô-graf, n. a picture produce. by the Photography, fô'tô-gravier, n. special method of photography.

Photology, fô-tô'-ji, n. the science of light.

Photophone, fô'-ô-fôn n. a specch-transmitting apphotosphere, fô'-ô-fôn n. a specch-transmitting apphotosphere, fô'-ô-fôn n. deter of light. [paratus. Phrase, frâz, n. words expressing an idea.

Phraselogy, fôz-ô-fôt n. dictory.
                                                                                                                                                                                                                                                                           Pink, " light red colour; v. to stab.
                                                                                                                                                                                                                                                                           Pin-money, pin'mu, -i, n. a wife', pocket-money.
Pinnace, pin'as, n. a small vessel.
                                                                                                                                                                                                                                                                         Pinnacle, pin'a-kl, n. a turret: highest point.
Pinnate pin'at, adj. feather-shaped.
Pintle, pin'l, n. a small pin.
       Phraseology, fraz-e-ol'o-ji, n. diction.
     Phren, fren, s. mind.
Phrenetic, fren-et'ik, adj. frantic.
   Phrenology, fren-ol'o-ji, s., the science of the mind as indicated by the formation of the head.
                                                                                                                                                                                                                                                                         Ploneer, pl-o.ner', n. one who clears the Plous, prus, adj. reverential; good.
             dāv; ăt; ârm; ēve; ĕlk; thêse; Ice; pǐn; machine; bolk; pŏt; stôrm; mūte; tūb; bûrn.
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PEARS CYCLOPAEDIA.

Pipkin, pip'kin, n. a small certhen vessel.

Pippin, pip'in, n. a kind of apple.

Piquancy, pēk'an-sī, n. sharpness; smartness.

Piquancy, pēk'an-sī, n. sharpness; smartness.

Piquapeic, n. injured pride.

Pique, n. a corded cotton fabric.

Piracy, p'ra-sī, n. se orobbery.

Pirn, n. a reel or bobbin.

Pirouette, pi-to-et', n. a graceful wheeling round in a Placatorial, pis-kat-o'rī-al, ads. relating to fishing.

Piactulture, pis-sī-ku'tir, n. fish-breeding.

Piatll, pis'til, n. female organ in plants.

Pistola, pis'tol, n. a hand gun.

Pistona, pis'tol, n. a hand gun.

Pistona, pis'tol, n. a knad gun.

Pitcher, pitch'er, n. a vessel for holding water; one Picchapipe, pitch'er, n. a vessel for holding water; one Pictonip, pitch'er, n. a vessel for holding water; one Pictonip, pitch'er, n. a vessel for holding water; one Pictonip, pitch'er, n. a vessel for holding water; one Pictonip, pitch'er, n. a vessel for holding water; one Pictonip, pitch'es, ad', sorrowful; bad. [keynote.

Pitslale, pit'f-abl, ad, worthy of pity; despicable.

Pitslale, pit'f-abl, ad, worthy of pity; despicable.

Pitslale, pit'fant, a. a meaver alloware.
Pittali, pit'i-lui, adj, worthy of pity; despicable.

Pittsuk, pit'i-lui, adj, worthy of pity; despicable.

Pittsuk, pit'i-suw, n. a two-handed vertical saw.

Pittalnee, pit'ans, n. a meagre allowance.

Pitultous, pit'-0't-us, adj, secreting mucus.

Pity, pit', n. sympathy.

Pivot, piv'ot, n. point on which a thing turns.

Placable, pik'abj, adj, appearable

Placard, plak'ahd, ad, appearable

Placard, plak'ahd, n. a prunted paper publicly posted.

Place, plak'a, n. a spot; position: office.

Placeman, plas'man, n. an office-holder.

Placid, plad; ad, secrene. [another.

Plagiarise, pla'[i-a-riz, v. to adopt the words of Plagiarism, pla'[i-a-riz, v. to adopt the words of Plagiarism, pla'[i-a-riz, n. the act of plagiarismg.

Plagiarism, pla'[i-a-riz, n. the act of plagiarismg.

Plagiarism, pla'[i-a-riz, n. the act of plagiarismg.

Plaint, plain, n. a volute; of the plant, plant, n. complant.

Plaint, plant, n. a fold; brand; v. to fold or braid.

Plant, plant, n. a politer's too! a level surface.

Planet, plan'et, n. a colestial body.

Planet, plan'et, n. a colestial body.
  Plane, plān. n. a joiner's tool; a level surface.

Planet, plan'et, n. a celestial body.

Planisphere, plan'is-fer, n a sphere projected on a
plune.

Planisphere, plan'is-fer, n a sphere projected on a
plune.

Plantain, plan'tān, n, a broad tropical plant, also a
Plantation, plan-tā'shun, n, a large cultivated estate;

tract where young trees are planted.

Plante, pan'er, n, a plantation owner; one who
Plan, v to plash.

Plant, plant, n, a mould; protoplasm.
           Plasm, plazm, w. a mould : protoplasm.
  Plasm, plazm, n. a mould: protoplasm.
Plasma, plazma, n. fluid part of the blood; a kind of
Plasmatic, plaz-unat'ik, ed, formative. [quartz.
Plaster, pla'-ter, n. an adhesive salve; a limy composi-
tion for overtaying walls.
Plastic, plas'it, ed, easily moulded.
Plastron, plas'iron, n. a breast covering.
Plata, plat, n. a plot of ground.
Platane, plar'an, n. plane-tree.
Plateau, plat'an, n. plane-tree
Plateau, plat'n-un, n. a metal.
Platitude, plat'i-tid, n. a stale phrase, trite remark.
Platonic, plat-on'ik, ad', pure; relating to Plato.
Platoon, pla-toon'in, half a company of soldiers.
Plaudit, play dit, n. applauce; praise.
        Plaudit, plaw'dit, n. applause; praise.
Plausible, plawz'bl, adj. reasonable; specious.
     Flaushie, plaw? in, ad, reasonable; specious. Play, pla, pastine; a game; theatre piece; theatre. Playful, plb'ful, ad., sportive. Plea, ple, n. an excuse; entreaty. Pleasantry, plea, chift, n. gatety; sprightly speech. Please, ploz. v. to gratify. Please, ploz. v. to gratify. Please, ploz. v. to gratify. Please, ploz. v. to gratify.
     Pleblacite, pic-be' yan, ad.; vulgar; common.
Pleblacite, pleb'si-fi, s. a referendum.

ga, ple], s., a promise; s security.
Pledget, ple'fet, s. lint covering for a wound.
Plelades, ple'ya-dez, s. a cluster of tars in Taurus.
Plenary, plen'si-fi, ad.; full; complets.
Plenipotentary, plen'si-fi, ad.; full; complets.
Plenipotentary, plen'si-si, ad.; plenifais-fi, s.
Pleniaba, plen'si-si, ad.; plentful.
Plenibuous, plen'si-si, ad.; plentful.
Plenibuous, plen'si-si, ad.; plentful.
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Pleonastic, plē-ō-nas'tik, adj. redundant.
Pigthofa, ples'k'o-ra, n. excess of blood; repletion.
Piāble, plf plābl, adj. pliant; flexible.
Pilers, plf'erz, n. pinchers.
Pilght, plit, v. to pledge; n. condition; state.
Plinth, plin/h, n. the square at the base of a column.
 Plinth, plinth, n. the square at the base of a column. Plod, plod, v. to toll; it omove steadily on. Plodugh, plow, n. an implement for turning up the soil. Plumage, ploon's], n. feathers of a bird. [pendicular, Plumb, plum'n, n. s leaden weight on a line; saf, per-Plumber, plum'n, n. a, feather. Plumber, plum'n, n. a feather. Plummen, ploon, n. a feather. Plummen, plum'es, n. a weighted line. Plummous, ploon'us, ad/. feathery. Plump, ad/. fat Plunder, plum'cs, n. a weighted line. Plumder, plum'cs, n. a weighted line. Plumder, plum'cs, n. a weighted line. Plumge, plunj, v. t. dive; to rush into; to immerse. Pluralist, ploo'ralist, n. a holder of more than one Plus, n. sign(+) of addition. [Plush, n. a velvet cloth. Plush, n. a velvet cloth. Plutocracy, ploo-tok; rå-si, n. government by the
   Plustorary, plo-toti fi-fis, n government by the Pluttorary, plo-toti f-fi, n science of wealth, [wealth, Pluttonay, plo-to-fin-fin, ad-, infernal. Pluvial, ploovier, ad-, ramy, pluvial, ploovier, to work, ramy.
   Ply, pin, 2 to work at; to dippertune,
pneumatic, nu-matik, adp relating to air.
Pneumatology, nu-mat-ol'oil, n. terence of elastic
Pnyx, nixs, n. political meeting-place in arctent
Poach, poch, v. to steal game.

[Athens.
    Poachy, poch'i, ad/. soft; wet.
Pock, pok, n. a pustule on the skin
    Pod, pod, n. covering of peas, beans, etc.
    Podagra, po-da'gra, n. gout in the feet.
    Podesta, po-des'ti, n. a magistrate of the Italian Podgy, poj'i, adj. short and fat. [republics
   rougy, poj'l, adj. short and fat.

Poem, po'em, n. a composition in verse.

Poetaster, po'et-as-terfin an inferior poet.

Poetry, po'et-ri, n. a rhythinical embodiment of thoughts and fancies.

Pogrom, po'ermin n. a composition of thoughts and fancies.
    Pogrom, po'-grom, n a destructive disturbance [ful. Poignant, poinant, adr bitter, stinging; acutely pain-
    Point, point, n a sharp end; spot, gist of an argument; v to indicate; to direct.
   Pointed, point'ed, adj., sharp, direct, keen.
Poiste, point'ed, adj., sharp, direct, keen.
Poiste, poiz, v. to balance.
Poiston, poi'en, w. any substance that, taken into the
system, destroys or impairs life; v to infect with
 system, destroys or impairs life; v to infect with Polar, pô'nar, adv. pertaining to the poles. [poison. Polarisation, pô-lár-i-zā'shun, n, the act of communicating polaris, no, a rod; a measure of length; native of Pole-axe, pô'lask, n, a liatchet with a long handle. Polemic, pô-len'ik, n, disputant; adj. controversial. Pole-star, pôl'stár, n, the north star. Police, pô-les'n, n, civil force. Policy, pol'is-i, n, prudence; the art of governing. Polish, po'lsh, v, to make glossy; to tefine; n, the substance used to produce polish. Politt, adj. duscreet. Polittic, pol'it-iks, n, science of government.
ronte, politi, adt. courteous.
Politic, politick, adf. discreet.
Politick, politick, adf. discreet.
Politick, politick, adf. science of government.
Polity, politick, as science of government.
Polity, politick, as science of a government.
Polity, politick, as a lopped tree.
Politick, politick, as a lopped tree.
Politick, politick, as a lopped tree.
Politick, politick, as a covard.
Polygon, politick, adf. many-languaged.
Polygon, politick, adf. many-languaged.
Polygram, politick, adf. many-languaged.
Polygram, politick, adf. many-languaged.
Polygram, politick, adf. many-languaged.
Polypraphy, politick, adf. many-languaged.
Polypropolitick, adf. including many assertions.
    Polytechnic, pol-l-tek'nik, adj. including many arts.
Polyterium, pol-l-the'izm, s., the doctrine of more
Pomace, pom'as, s., crushed apples. [than one God.
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Pommel, pum'el, n. the knob of a saddle; v. to beat. Pomology, pom-ol'ò-Ji, n. science of fruit raking. Pomp, pomp, n. ceremony; show, display. (Poncho, pon'chō, n. a short cloak.
                                                                                                                                                                                                                                                                                                                                                                                                           Post-mortem, post-mort'em, adj. after death.

Post-obit, post-obit, n. bond given by heirs securing repayment of money advanced.
                                                                                                                                                                                                                                                                                                                                                                                                           Postpone, pöst-pön', v. to defer.
Post-prandial, pöst-pran'di-al, adj. after di ner.
Post-script, pöst'skript, n. writing added diter a letter
       Pond, pond, s. a pool.
Ponder, pon'der, v. to consider.
Ponderous, pon'der, s. dv. weighty; heavy.
Pone, pon, s. bread made from maize.
                                                                                                                                                                                                                                                                                                                                                                                                           has been signed.
Postulate, pos'tül-lät, s. self-evident position.
Posture, pos'tür, s. attitude; position.
Posy, po'zi, s. nosegay; motto on a ring.
Pot, s. an utensil; a pan.
Ponderous, pon'der-us, ad, weighty; heavy, Pone, pön, a. bread made from maize. Pongee, pon'je, n. silk from cocoons of wild silkworms. Ponisard, pon yard, n. a small dagger. Pons, pons, a part connecting two parts. Pontage, pont'je, n. bridge toll.
Pontiff, pont'if, n. a high priest; the Pone. Pontiff, pont'if, n. a high priest; the Pone. Pontiff, pon'if, n. rod used in glass-making. Pontoon, pon', n. a knosian weight, 30 lbs. Pool, n. a small pond. Poor, poor, ad, needy; weak; depressed. Pope, pôp, n. the head of the Roman Catholic Church. Popedom, pop'dom, n. jurisdiction of the Pope. Poping, pop'ia, n. a well-known tree. Popiln, pop'ia, n. a well-known tree. Popiln, pop'ia, n. a well-known tree. Popiln, pop'ia, n. a well-known tree. Popilar, pop'ia, n. a top. Popilar, popilar, popilar, n. a top. Popilar, po
                                                                                                                                                                                                                                                                                                                                                                                                         Pot. **n. an utensil; a pan.
Potation, po-ta'shun, **n. a drink.
Poteen, po-ten, **m. rish whisky.
Potent, po-ten, **ad/; powerful; having authority.
Potentiality, po-ten-sh-al'n-l, **n. a potential thing.
Pother, poth'er, **n. bustle; confusion.
Potion, po'shun, **n. a dose; a draught.
Potiaherd, pot'sherd, **n. a piece of broken pot.
Pottage, pot'aj, **n. a thick soup.
Potter, pot'er, **n. to trifle; **n. an earthenware manu-
Poultr, pot'er.! **n. carthenware.
Poultr, pol'tri, **n. chicken.
Poultry, pol'tri, **n. fowls.
                                                                                                                                                                                                                                                                                                                                                                                                             Poultry, pol'tri, s. fowls.
                                                                                                                                                                                                                                                                                                                                                                                                           Poundy, por ut, n. town.

Pounde, powns, v. to fall upon; n. a fine powder.

Pound, pownd, v. to bruise; n. a standard weight,

varying in different countries.
                                                                                                                                                                                                                                                                                                                                                                                                         varying in different countries.

Poundage, pownd'aj; n. duty per pound.

Pout, powt, v. to sulk.

Powder, pow'der, m. a dust; gunpowder.

Power, pow'er, m. force; strength; niight,

Practicable, prak'tik-abl, ad, possible.

Practice, prak'tik, ad, ad, useful.

Practice, prak'tik, m. habit.

Practice, prak'tik, m. habit.
       Porcine, por sin, adj. pertaining to swine.

Pore, por, n. minute passage in the skin; v. to study
 Pore, por, n. minute passage in the skin; v. to study Portfera, portfera, n. sponges.

Portfera, portfera, n. sponges.

Portous, ports, n. fiesh of swine.

Portous, ports, n. fiesh of swine.

Portous, ports, n. a variegated hard stone.

Portinger, por in, jer, n. boiled instal and water.

Portinger, por in, jer, n. a porridge pan.

Port, port, n. a harbour, an opening; a Portuguese wine; bearing.

Portable, port sli, n. carrying; price of carriage.

Portal, port sli, n. carrying; price of carriage.

Portulis, port sli, n. a gateway; an entrance.

Portend, port-min, n. te l'urksh court.

Portend, port-end, v. to forbode.

Portend, port-end, v. to forbode.

Portend, port-end, v. to forbode.

[Inquor.
                                                                                                                                                                                                                                                                                                                                                                                                           governing power.

Pragmatical, pragmatik-al, adj. officious; meddling

Prairie, pra'ri, n. a grassy plain.

Prakrit, pra'knt, n. Sansknt-derived languages.
                                                                                                                                                                                                                                                                                                                                                                                                           Prance, prans, v. to strut; to ride gaily.
Prank, prangk, v. a trick; a frolic.
Prasinous, pras'in-us, adv light-green.
                                                                                                                                                                                                                                                                                                                                                                                                           Pratique, pratek', n. leave to trade after quarantine.
Prawn, n. a small crustacean fish.
                                                                                                                                                                                                                                                                                                                                                                                                           Pray, prā, v to entreat; to supplicate the Almighty. Preach, prēch, n to publicly expound religious views.
                                                                                                                                                                                                                                                                                                                                                                                                         Preacht, precn, w to publicly expound religious views. Preacher, préclier, w, one who preaches. Preamble, pré-am'bl, n. introduction; preface. Preaudience, pré-aw'di-ens, n. right to pror hearing. Prebend, preb'end, n. stupend granted to a canon. Prebendary, preb'end ar-l, n. cathedfal stupendiary. Precantous, pre-ka'rl-us, ad, uncertain; doubtful. Precamtion, pre-ka'rl-us, ad, uncertain; doubtful.
Portend, por-tend, n. to forbode.

Portentous, por-ten'tus, adj. ommous.

Porter, porter, n. one who carnes parcels; a malt

Portfolio, port.fo'li-o, n. case for holding papers; the

office of a State munister.

Porthole, port'hôl, n. gun-hole; any opening in a

ship's side for air or light.

Perfico, por'tik-o, n. a piazza; a columned entrance

Portly, por'til, adj. dignified; corpulent.

Portmanteau, port-man'tô, n. a hand-bag.

Portray, por-tra', v. to draw; to describe.

Portrayal, port-ra'di, n. the act of portraying.

Pose, pôz, v. to assume an attitude; to puzzle; n. atti-

Positive, poz'ti-l'v. adj. sure; attuation.

[tude.

Positive, poz'ti-l'v. adj. sure; attual, absolute.
                                                                                                                                                                                                                                                                                                                                                                                                             Precaution, pre-kaw'shun, n. previous care.
Precede, pre-sed', v. to go before.
Precedence, pre-se'dens, n. priority.
                                                                                                                                                                                                                                                                                                                                                                                                             Precedent, pre-se dent, ady. going before; anterior.
                                                                                                                                                                                                                                                                                                                                                                                                             Precedent, pres'e-dent, n. examp
                                                                                                                                                                                                                                                                                                                                                                                                           Precentor, pre-sen'tor, n. choir-leader.
Precept, pre'sept, n. doctrine; rule of action.
Precinct, pre'singkt, n. boundary.
Precious, presh'us, adj. worthy; valuable.
Position, po-zish'un, n. place, situation. [tude. Positive, poz'it-lv, adj. sure; actual, absolute. Posnet, pos'net, n. a sinall pain. Posses, pos'ē, n. power; possablity. Possess, po-zes', v. to own. [Inquor. Posses, pos'e, n. mik curilded with wine or other Post, post, n. an upright piece of timber; pillar; place for the roceipt of mail letters; v. to post. Post-al. post'al. adj. pertaining to the post-office Post-chaise, post'shaz, n. a stage coach. [service. Post-date, post'dāt, v. to postpone date. Post-date, post'dāt, v. to postpone date. Post-date ante, post-rest-ânt', n. place in post-office where letters are kept till called for. Posteror, pos-të'ri-or, adj. later; subsequent.
                                                                                                                                                                                                                                                                                                                                                                                                       Precious, presh'us, adj, worthy; valuable, Precipice, pres'i-pis, n. an abyss. Precipitance, pre-sip'it-ans, n. rash haste. Precipitate, pres'ip'it-ans, n. rash daste. Precipitate, pres'ip'it-ait, adj, rash; steep. Precis, prā-sē', n. an abstract or summary. Precise, prā-sē', n. an abstract or summary. Precise, prā-sip'it-ait, adj, exact. Precision, prā-sip'dun, n. accurary. Preciude, prā-slood', v. to shut out. [out. Precipitate, prā-slood', v. to shut out. Precipitate, prā-slood', v. to shut out. Precognition, prā-slood'shun, n. c. che'ion; a shutting Precognition, prā-slood-sinsh'un, n. forenght. Preconcelve, prā-son-sēv', v. to imagine; to conceive beforehand.
                                                                                                                                                                                                                                                                                                                                                                                                         beforehand.

Preconception, prê-kon-sep'shun, n. forethought.

Preconcerted, prê-kon-sert'ed, ad., prearranged.

Precursor, prê-kor-sert'ed, ad., prearranged.

Predaceous, pred-for, n. a forenumer. Plunder.

Predaceous, pred-for, ad., plundering.

Predaceous, prê-de-ses'or, n. forerunner.

Predestination, prê-de-ses'or, n. forerunner.

Predestination, prê-de-ses'or, n. h. the belief that everyghing is foreordained.
                                                                                                                                                                                                                                                                                                                                                                                                                                   beforehand.
 were letters are kept till causel for.

Posterior, pos-te<sup>2</sup>i-for, adj. later; subsequent.

Posterity, pos-terit-i, n. descendants.

Posthaste, post-häst', n. top speed.

Posthamous, post-li-mus, adj. after death.

Postli, pos'til, n. margunal note.

Postlilion, post-li'yun, n. a rider of a carriage horse.

Postmeridian, post-mer-id'I-an, n. afternoon.
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Predial, prë di-al, ad/. pertaining to land.
Predicable, pred'ik-abl, ad/. attributable.
Predicament, prë-dik-ë-ment, n. pight.
Predicate, pred'ik-åt, v. to afirm.
Predicate, pred'ik-åt, v. to afirm.
Predicate, pred-ik-åt, v. to fortell.
Prediction, pred-ik-šhun, n. act of afirming.
Predict, pred-ik-åt, v. to fortell.
Prediction, prë-dik-bo-prish'un, n. apropheov. [fav.
Predilection, prë-dik-bo-prish'un, tendency.
Predominate, pre-dom'in-it, v. to rule.
Pre-eminenc. pre-em'in-cns. n. sueriority. I favour of. Pre-eminence, pre-em'in-ens, n. superiority.

Pre-emption, pre-em'shun, n. first option of buying. Preen, pren, n, to arrange feathers, as birds.

Preface, prefas, n, an introduction.

Prefect, prefekt, n, a governor.

Prefer, prefer-n, to esteem before others; to choose.

Preferable, prefer-abl, ad/ worthy of preference.

Preference, prefer-on, n, choice. Preferable, prefer-abl, ad/ worthy of preference Preference, prefer-ens, n. choice.
Preferment, pre-fer'ment, n. promotion.
Prefigure, pre-fig'nr, v. to show beforehand.
Prefix, pre-fiks', n. a letter or word put before.
Pregnant, preg'nant, ad, with young: fruitful.
Prehansile, pre-ben'sil, ad/ that can grasp.
Prejudge, pre-ju'y', v. to judge beforehand.
Prejudge, prej'u'sil, ad/ bias; prejudgment.
Prelacy, pref'ads, n. the office of a prelate.
Prelacy, pref'al. n. a church demitary. Prelacy, prel'as, n. the office of a prelate.

Prelate, prel'àt, n. a church dignitary.

Prelection, prè-lek shun, n. lecture read to others.

Preliminary, prò-lek shun, n. lecture read to others.

Preliminary, prò-lem'm-āt-a, ad/, previous; preparatory.

Premature, prel'ud, n. urroduction; preface. [hasty.

Premature, prè-mi-d'ud, n. cola before its time, too

Premeide, prè-me'd', n. cola beforehand.

Premise, prè-mi-z', n. to state beforehand.

Premises, premi's-es, n. a buidang and its adjuncts.

Premium, nrô'mi-um, n. reward: nament four Premium, pre'mi-um, s. reward; payment for insurance.

Premonish, pre-mon'ish, v. to admonish beforehand. Premonisa, pre-mon isn, v. to admonisa beforehand.
Premonitory, pre mon'to-ri, and giving pror notice
Preoccupy, pre-ock'ū-pi, v to occupy beforehand. [of.
Prepare, prē-pār', v. to get ready.
Prepase, prē-pens', adv. premeditated.
Preponderate, prē-pon' erā tv. to outweigh.
Preposition, prep-ō-zish'un, n. part of spec ch showing

(mvite favour.

Prepossessing, pre-po-zes'ing, adj in condition to Preposterous, pre-pos'ter-us, ad/ absurd Preposterous, pre-pos'ter-us, ad/ absurd prerogative, prë-rog'ativ, n. exclusive privilege. Pressage, pres'al, n to predict, n, anything that for Presbyter, pres'bit-er, n, a priest.

Prescience, prë-skrib', n to appoint; to order, to lay Prescription, prë-skrib', n to appoint; to order, to lay Prescription, prë-skrib', ad/ a written instruction for preparation of medicine; any act of directing. Prescriptive, ad/ accounted by machine.

Prescriptive, pre-skript'iv, ad/ acquired by usage. Presentable, pre-zent'abl, ad/ that may be presented. Presentient, pre-zen'shi-ent, ad/, pre-perceiving, Presentiment, pre-sen'ti-ment, n. a premonition. Presentment, pre-zent'ment, " the act of presenting Preservative, pre-zer va-tiv, n. that which preserves Preserve, pre-zerv', v. to keep safe: to defend.
President, pres't-dent, n. one at the head of a state.

company, or society.

Presidual, prê-sid'i-al, adj. relating to a garrison. Press, pres, v. to squeeze; to clasp; s. printing machine; newspapers generally.

Press-gang, prev'gang, n. a body of men who in war-time forcibly carry off men to serve on warships. Pressing, pres'ng, ad, urgent. [press; a fournalist. Pressman, pres'man, n. one who works at a printing

Presaman, pres'man, n. one who works at a printing Prestige, prest-žen', n. moral influence.

Presto, pres'tô, adv. quickly.

Presume, pre-zim', v. to take for granted; to arro
Presumption, pre-zim' v. to take for granted; to arro
Presumption, pre-zim' v. to take for granted; to arro
Presumption, pre-zim' v. to adapover-confident.

Pretence, prê-ten', n. excuse; assumption.

Preterice, pre'ter-it, adr. gone by: n. past tense.

Pretermission, prê-termish'un, n. the act of omitting.

Pretermismal prê-ter-nat'ural, adr. supernatural.

Pretext, prê-text, n. semblance; excuse; pretence.

Prevail, sprè-val', v. to overcome; to induce.
Prevalesse, prev'al-ens, n. custom; predominance.
Prevalesse, prev'al'ik-at, v. to equivocate.
Prevent, pre-ven't-ent, ad; going before.
Prevent, pre-ven't, v. to hinder.
Prevent, pre-ven'tv, adj. tending to prevent.
Prevision, pre-visi'un, n forethought.
Prevision, pre-visi'un, n forethought.
Prey, v. to seize upon; n. spoil; plumler.
Price, prik, n. sum asked for a tlung; reward.
Prick, prik, v. to spur; n. a sharp-pointed instrument;
Prickly, prik'li, adj. thorny.
Pride, prid, n. self-estebn.
Priest, prest, n. a clergyman; a religious minister.
Priestcraft, prest kraft, n. prestly policy.
Prig, prik, n. a conceited person. Priesterat, prest krait, n. priestly policy.
Prig, prig, n. a conceited person.
Prim, prim, a./j. precise.
Primaty, primats, n. office of archbishop.
Primat, primat, ad/ first.
Primarily, primats-if, a./v in the first place.
Prime, prim, ad/, chief; firet, first; strong; full. Primer, primer, n. ener; n. e., n. e.; n. e. Princess, prin'ses, n. a prince's consort; a king's Principal, prin's-pal, ady chief; capital. [daughter. Principa, prin-spi'fa. n. first principles. Prink, pringk, v. to deck for show. Print, print, v. to mark by impression.

Prior, pri'or, adj. former; n. the head of a monastery Priority, pri-arit-1, n precedence.
Prism, prizm, n a solid whose ends are similar and

Prism, prizm, n a solid whose ends aregamiar and prailed planes, and whose sides are parallelograms. Prison, priz'n, n, a pail; place of detention, prism, prys'in, av', printitive; original Prittle-prattle, prit-lyrat'l, n, empty chatter, Isoldier, Private, av', alone, secret, an ordinary Privateer, pri-vater', n, a ship of war privately manned Privateer, pri-vater', n, a ship of war privately manned Privateer, pri-vater', n, a ship of war privately manned privateer, pri-vater', n, a ship of war privately manned privateer, pri-vater', n, a ship of war privately manned private private

Privation, pri-vi'shun, n. destitution; act of depriving. Privilege, privilej, n. right, special advantage. Privily, privile, a. v. secretly.

Privy, priv'l, ast, screet: private.

Privy, priv'l, ast, screet: private.

Probable, prob'th, ast, likely [enemy Probable, prob'th, ast, likely [enemy Probate, prob'th, a, legal proof of a will Probation, prob'b'thm, a, trial; act of testing.

Probative, pro'ba-tiv, a y. serving for proof
Probe, prob, v. to search, n. a surgeon's instrument.
Probity, pro'tut-i, n. sincersty, uprightness.

Problem, prob'tem, n. a question for solution.

Problematical, prob-lem-at'ik al. adv questionable.

Proboscis, pro-bos'is, n. a trunk; no.e.

Procedure, prosective, n legal process; mode of pro-Procedure, prosective, n legal process; mode of pro-Proceeds, pro-selv, v. to advance; to go on. [ceeding, Proceeds, pro-seds, n returns; produce; reuts.

Proceeds, pro'seds, n returns; produce; reits.

Process, pro'ses, n operation.

Proclaim, pro-klain, v, to publicly announce.

Proclivity, pro-klivi'it. n. tendency, uclination.

Proconsul, pro-kon'sul, n. a Roman povernor.

Procrastinate, pro-kras'tin-āt', v. to postpone.

Procreate, pro-kras'tin-āt', v. to pestpone.

Procrustean, pro-krus'tē-an, ad', forcing into conProctor, prod'tor, n. an ecclessatical lawyer; a uniProcure, pro-krus', v. to obtain. [versity official.

Prodigal, prod'tell, ad, extravagunt; lavish.

Prodigious, pro-dij'us, ad', huge; wonderful.

Produce, prod'til, n. a wonder.

Produce, prod'us, n. yield; that which is produced.

Product, pro-dus', v. to yield; to bring forth.

Product, prod'usk, n. fruit; yield, thing produced.

Proem, pro'em, n. preliude.

Product, product, n. Iran; yield, thing produced. Profane, pro-fan', ad/, secular; unholy. Profess, pro-fes', v. to avow; to own.
Profession, pro-fesh'un, n. occupation; a vocation.
Proficer, prof'er, v. to offer.
Proficer, pro-fish'ent, ad/, skilled; able.
Profile, pro'fil, n. outline; side view.

Profit, profit, s. gain; advantage.

Profitigate, profil-gat, adv. abandoned; dissessite.

Profitus, pro-fownd, ad/, deep; intense.

Profitus, pro-fous, ad/, lavish.

Prog. prog. s. begged food.

Progeny, projent, s. offspring.

Prognathous, prog'nd-shus, ad/, with projecting jaws.

Prognois, prog-nd-shus, sd/, with projecting jaws.

Prognois, prog-nd-shus, sd/, with projecting jaws.

[ment. Protect, pro-tek', v. to shield; to defend.
Protection, pro-tek'shun, n. preservation; defence;
refuge; a fiscal policy favouring taxation of imports. Protégé, pro-ta-zhā', n. one under another's pri-tection. Protein. nrô'të-in. n. the first element in any ampound. Protein, pro'të-in, n. the first element in any a Protend, pro-tënd', v. to hold out. Protesnd, prô-tênd', w. to hold out.
Protests, prô-tênd', w. to hold out.
Protests, prô-tênd', w. to object; to declare openly.
Prothomotary, prô-tênd', ö-tênd', w. a chief notary.
Protocol, prô-tô-tô, w. the circin alwriting of a treaty.
Protomartyr, prô-tô-marter, w. the first martyr.
Protoplasm, prô-tô-plazm, w. living matter.
Prototype, prô-tô-tô-pla, w. the lowest order of plants.
Prototype, prô-tô-20', w. the lowest order of animal
Protract, prô-tro-dr', w. to prolong.
Protrude, prô-tro-dr', w. to shoot out.
Protuberance, prô-trù-ber-ans, w. a prominence; a
Proud, prowd, adj. arogant.
Prove, proov, w. to test; to demonstrate.
Provender, prov'en-der, w. dry food for horses.
Proverb, prov'en-dr, w. dry food for horses.
Proverb, prov'en-dr, w. amaxim.
[sight; God.
Providence, prov'd-en-den, m. dry food for horses. Prognosis, prog. no'sis, m. a forecast of the course of a disease. Iment. Programme, pro'gram. m. particulars of an entertain-progress, pro'gres. m. advancement; improvement. Prolibit, pro'shb'ft, v. to forbid. Project, pro'jekt, v. a scheme fa plan. Project, pro'jekt, v. to extend; to throw outward. Project, pro'jekt, v. to extend; to throw outward. Projector, pro'jekt'or, m. one who forms plans. Prolegomena, pro'legom'ena, m. introduction to a Prolepting, pro'jekt'or, m. one who forms plans. Prolegomena, pro-let'a'frian, ad/, pertaining to the labouring classes.
Prolific, pro-lifitk, ad/, productive; fruitful. Prolix, pro'lifitk, ad/, tedious; diffuse. Prolixity, pro-liks'i-t, m. great length; tediousness. Proligit, pro'log, n. introduction. Prolong, pro'log, v. to extend. Promisence, prom'in-ens, m. conspicuousness. Promise, prom'is, v. to engage to do; n. expectation. Promise, prom'is, v. to engage to do; n. expectation. Promise, prom'is, v. to advance; to encourage. Prompt, prompt, ad/, ready; quick: v. to mcite. Promptitude, prompt'itid, n. readness; ouickness. Provenues, proven-der, n. dry food for norses.

Proverb, prov'erb, n. a maxim. [sight; God.
Providence, prov'id-ens, n. divine supervision; foreProvident, prov'id-ent, ad/, prudent: thrifty.
Province, prov'ins, n. a territory; a district; a duty.
Provincial, pro-vin'shal, ad/, pertaining to a province
or the country; unpoished.
Provision, pro-vizh'un, n. food; what is provided.
Provision, pro-vizh'un, n. food; what is provided. Provision, pro-vizh'un, n. food; what is provided. Proviso, pro-vizo, n. a condition. Provose, pro-vok', v. to excite to anger; to summon. Provose, pro-vok', v. to excite to anger; to summon. Provose, prow'est, n. cluef magistrate of a Scottish Prow, n. fore part of a vessel. Prowess, prow'est, n. valour. Prowl, v. to roam in quest of plunder. Proximity, proks-im'n-l, n. nearness. Proxx, proks'l, n. substitute: a deputy. Prude, prood, n. a woman of affected modesty. Prudential, proo-dent'shal, aff, discretifonary. Prudential, proo-dent'shal, aff, discretionary. Prudish, prood'sh. aff. over-modest; affectedly Prurience, proof'-ens, n. burning desire. [modest. Pry, pri, v. to peep into; to lift with lever. Prompt, prompt, adj. ready; quick; v. to incite.
Promptitude, prompt'it-ūd, n. readiness; quickness. Promulgate, pro-mul'gat, v. to publish.

Prone, pron, adj. disposed; face downward. Prong, pron, ad, disposed; face downward.
Prong, prong, n. branch of a fork.
Pronominal, pro-nom'm-al, ad/, pertaining to a
Pronounce, pro-nown's, v. to speak; to utter.
Proof, n. trial; evidence; a first printed impression; Prurience, proo'ri-ens, n. burning desire. [modest. Pry, pri, v. to peep into; to lift with lever, Psalm, sam, n. a sacred song. Psalter, sawl'ter, n. psalin book. Psalter, sawl'ter, n. a stringed instrument. Pseudochromia, su'do-kro'mia, n. false idea of colour. Pseudoury m. su'do-kro'mia, n. salvation of the mind. Psyalism, it'al-izm, n. salvation. Publict, pub'liberat, n. dault age; maturity. Public, pub'liberat, n. an innor public-house keeper. Publication, pub'lik-si, n. an innor public-house keeper. Publication, pub-lik-si, n. a writer on public affairs. Publicist, pub'lish, n. a tricksy fairy. Pucker, pukler, n. a tricksy fairy. Pucker, pukler, n. to corrugate; to wrinkle. Prop. M. a support.
Propagate, prop'agat, v. to produce; to spread.
Propel, prob-pel', v. to force forward.
Propell, prob-pel', w. to force forward.
Propeller, prob-pel'm. M. screw which of a steamer.
Propensity, pro-pen'sl-tl, n. tendeucy; inclination.
Proper, prop'er-tl, n. estate; inherent quality.
Prophet, prof'et, n. one who fortells.
Prophitactic, prof-lak'tik, n. a preventive medicine.
Propinquity, pro-ping'ewit-l, n. proximity.
Propintate, pro-ping'ewit-l, n. proximity.
Propiolist, prop'o-list, n. a substance with which bees close the holes of their hives.
Proporting pro-po's n. a substance with which proporting pro-po's list, n. a. augustance with which proporting pro-po's n. n. a. suggestion; an oiler.
Propose, pro-po's n. n. a. suggestion; an oiler.
Propose, pro-po's n. to oifer. Prop, n. a support. [ad], resisting. Proposal, prō-pō'zal, n. a suggestion; an offer.

Propose, prō-pōz', v. to offer.

Propound, prō-pownd', v. to set forth.

Proprietor, prō-pri'et-or, n. an owner.

Proprietor, prō-pri'et-or, n. an owner.

Propriety, prō-pri'et-dr, n. fitnes; good behaviour.

Proprietor, prō-pri'et-or, n. deputy rector.

Prorector, prō-reki'or, n. deputy rector.

Prorector, prō-reki'or, n. deputy rector.

Prosecute, prō-rai'k, n. dr, prosy; commonplace.

Prosecute, prō-ski'l, v. to denounce: to prohibit.

Prosecute, proś-kiti, v. to sue: to follow. Puck, puk, n. a tricksy fairy.

Pucker, puk'er, v. to corrugate; to wrinkle.

Puddle, pud'l, n. a small muddy pool.

Pudenda, puden'da, n. the genitals.

Puerle, pu'er-il, act; childub.

Puff, v. to blow in whiffs, to pant; n. whiff of air.

Puffary, puf'er-il, n. excessive laudation.

Pug, n. a dog; a fox; a monkey.

Puglist, puj'il-ist, n. a boxer.

Pugnacious, pug-na'shus, act; quarrelsome.

Pugree, pug'er, n. a hat scart,

Puisant, pu're, act; younger; inferior.

Puisant, pu'is-ant, act; powerful.

Puke, puk, v. to vomit.

Pule, pük, v. to whine. Prosecute, pro-skind, v. to denounce; to prohibit.

Prosecute, pros'e-kit, v. to sue; to follow.

Proselyte, pros'e-kit, v. a convert. [on versification.

Prosocy, pros'o-di, w. the part of grainmar treating

Prospect, pros'pekt, v. expectation; view; aspect.

Prospecting, pios-pekt, v. expectation; view; aspect.

Prospecting, pios-pekt, v. expectation; view; aspect. Pule, pul, w. to whine.
Pulicene, pul'i-sen, adv. fica-infested.
Pull, pool, v. to haul; to drag; to draw; s. advantage. Pull, pool, v. to haul; to dray; to draw; n. advantage. Pulley, pool', n. a wheel. Pullulate, pul'ū-lāt, v. to germinate. Pulmonary, pul'mon-ar-l, add; pertaining to the lungs. Pulp, n. soft part of fruit; etc.; any soft mass; v. to Pulpit, pool'pit, n.g. preacher's desk. [make into pulp. Pulsate, pul-sat', v. to throb. Pulses, pul-sat', v. to throb. Pulses, pul-sat', v. to reduce to powder. Pulverize, pul'verize, v. to reduce to powder. Pulverize, pul'verize, sonery volcanic stone. tions of precious minerals.

Prospectus, prospekt'us, n. the plan of a work or Prosper, prospert, v. to succeed. [public undertaking. Prosperous, pros' per, n. to, ad/, successful. Prostitute, pros'tit-ūt, n. a strumpet; v. to debase. Prostrate, pros'tit-ūt, n. a strumpet; v. to debase. Prostyle, pros'tit-ūt, n. a front row of columns. Prostyle, pro'stil, n. a front row of columns. Prosy, pro't, ad/, tedious; tiresome.

Protagonist, pro't-iag'on-ist, n. a leading character. Protagonist, pro't-iag, n. the first part of a conditional Proteam, pro't-ian, ad/, changing shape. [sentence.]

Pumice, pum'is, s. a spongy volcanic stone.

Pump, #, an apparatus for raising water; a low shoe; v. to work a pump; to extract information.
Pumphin, pumpkin, v. ap plant of the gourd order.
Pun, A a play upon words.
Punch, vinsh, w. a drink; a tool for making holes; v.
to poke; to hit; to perforate. Puncheon, punsh'un, s. a large cask; a tool. Punchinello, punsh-i-ngi'o, s. a buffoon. runcuneuto, punsh-i-nel'o, s. a buffoon.
Punctillo, pungk-til'yos, and; very exact.
Punctual, pungk-til-iyos, and; very exact.
Punctual, pungk-til-id, and; exact as to time.
Punctuale, pungk-til-id, and; exact as to time.
Punctuale, pungk-til-id, and; exact buffor s. a writing.
Puncture, pungk-til-id, s. a small hole made by a polit;
to to prick a hole.
Pundit murder a section of the pundit pundit. Pundit, pun'dit, n. a man of learning.
Pungent, pun'ein. adj. biting; keen.
Punish, pun'ish, v. to enforce penalty; to chastise.
Punster, pun'ster, n. a maker of puns.
Punster, a first bettermed boote. Punt. n. a flat-bottomed boat. uny, pu'ni, ad. small ; feeble. Pup, h. a.y. snam: record.
Pup, h. a.y. soung dog; b. to give birth to puppies.
Pupli, pū'pil, h a scholar.
Puppet, puyl-ti.m. a. doll.
Puppyism, puyl-ti.m. n. concoit.
Puppyism-ti.n. n. sacred Sanskrit books. Pure, pur, adj. unpolluted; real. Purblind, pur blind, adj. short-sighted. Purgatory, purga-to-ri, n. the place wherein, the Roman Catholic faith teaches, souls are purified after Purge, purj. v. to cleanse; ro clear the loweds, ideath. Purlat, pur ist, n. one who uphoids purity of style. Purist, purist, n. one who uphous purist. Puri, v. to flow gently.
Purileu, puridi, n. environs; district.
Purport, puriont, v. to piler.
Purport, purport, n. meaning; tendency.
Purpose, purpose, n. alm; object.
Purr, pur, v. to marmur, a. a cat. Purr, pur, v. to murmur, as a cat.

Pursser, purser, m. a ship's paymaster.

Pursue, pursu', w. to chase; to follow.

Pursuivant, pur'wi-vant, m a state official.

Pursy, purs', ad', puffy; fat.

Purtenance, pur'tenans, m. that which pertains to.

Purulent, pur'ui-lent, ad', composed of pus.

Purvey, pur'vi, w. to provide; to cater.

Purview, pur'vi, m. scope, extent.

Pus. m. matter of an ulcer. Pus, n. matter of an ulcer. Push, w. matter of an utcer.
Pushila, w. to piess; to urge; n. pressure.
Pusillanimity, pusal-an-m'ti-t, n. cowardice.
Pustule, pustul, n. a pumple.
Puttative, pu'tā-liv, ad/, supposed; reputed.
Putta, pu'tā, ad/, mean.
Putrelaction, pu-trē-fak'shun, n. decomposition.
Putry, put'l, n. a cement.
Putty, put'l, n. a cement.
Puzzle, nuz'l, n. to perolex; n. a problem; a nd Puzzle, puz'i, n. to perplex; n. a problem; a riddle. Pygmean, pig-me'an, ad., dwarish. Pyramid, pir'a-mid, n. a solid, with triangular sides sloping upward to a terminating point. Pyre, pir, n. a pile on which corpses are burned.

Pyretology, pi-ret-ol'ō-ji, n. the science of fevers.

Pyriform, pir'i-form, adj. pear-shaped. ryriorm, pirt-torm, adj. pear-snaped.
Pyrogenous, pir-oi-ons, adj. caused by fire.
Pyroligneous, pi-ro-lig'nê-us, adj. produced by the distillation of wood.
Pyrology, pi'rol'oil, n. fire-worship.
Pyromancy, pi'ro-man-st, n. divmation by fire.
Pyrometer, pi-roni'ê-ter, n. an unstrument for measuring heat expansion.
Pyrotechnics, pi-rol-terl'niks, n. the art of meking meking.

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Pyrotechnics, pi-ro-tek'niks, n. the art of making Pyrrhoniam, pi-ro-tek'niks, n. the art of making Pyrrhoniam, pi-ron-izm, n. universal scepticism. Pythian, pih'i-an, ady. relating to the Pythoness or the Pythian games.

Quack, kwak, s. a mgdical preterfier; v. to cry like Quadra, kwod'rā, n. frame of bas-relief. [buildings. Quadrangle, kwod'rang.gl, n. a square boungled by Quadrant, kwod'rant, n. fourth part of a circle. Quadrat, kwod'rat, n. a metal space in prigating.

Quadret, kwod'rat, m. a square. [or turf. Quadret, kwod'ret, m. a square piece of stone, wood, Quadrennial, kwod-ren'yal, adj. occurring every four years. Quadricentennial, kwod-ri-sent-en'i-al, adj. pertaining to a period of 400 years. Muscle between leg and Guadriceps, kwod'ri-seps, new found from a first four-horned [thush Guadricycle, kwod'ri-sik, n. a four-wheeled cycle. Quadriayllable, kwod-ri-sil'abb, n. word of four Quadrisyllable, kwod-ri-sil'a-bl, s. word of four syllables, bud-ri-dent'-at, ad.; four-toothed, Quadrifd, kwod'ri-form, ad.; four-cleft. Quadriform, kwod'ri-form, ad.; of four-fold form. Quadrivium, kwod-ri-form, ad.; of four-fold form and the mathematics. mathematics.

Ouadrumanous, kwod-room'-a-nus, adj. four-handed.
Ouadrumanous, kwod-room'-a-nus, adj. four-handed.
Ouadruped, kwod'roo-ped, n. four-footed animal.
Ouadruple, kwod-roo-pl, v. to multiply by four; adj.
Ouaff, kwof, v. to drink copiously.

If ourfold.
Ouaker, kwaf, v. to tremble.
Ouaker, kwof-tef, v. to render legal or capable.
Ouality, kwof-tef, v. to render legal or capable.
Ouality, kwof-tef, v. to render legal or capable.
Ouality, kwof-tef, v. haracter; rank; nature.
Ouality, kwof-tef, n. nanount; bulk
Ouaquaversal, kwa-kwa-vers'al, adj. facing all ways.
Ouart, kwaf, n. fireday covering for retorts. Quarl, kwarl, n. fireclay covering for retorts Quarrel, kwor'el, n. a dispute; a brawl. Quarrie, kwor'e, n. a dispute; a Drawi, Ouarry, kwor', n. a stone-pit; game pursued. Quartan, kwawr'tan, ad, happening every fourth day Quarter, kwawr'ter, n. a fourth part. Quarterdeck, kwawr'ter-dek, n. upper deck. Quarterly, kwawr'ter-dek, n. an officer who quartermaster, kwawr'ter-mā-ster, n. an officer who anterials to be envolved. attends to the supplies.

Quartette, kwawr-tet', n. music for four parts.

Quash, kwosh, v. to annul; to crush. Quasa, kwa'si, onj. and adv. as it were. Quassation, kwa'si'shin, n concussion. Quaternion, kwa'ter'ni-on, n. a set of four. Quatram, kwot'rān, n. a stanza of four lines. Quayer, kwā'ver, v. to tremble; to shake the voice-n. a note half the length of a crochet. Quay, ke, n. a landing place. Quean, kwên, n. a sancy woman. Quean, kwên, n. a sancy woman. Queen, kwe, n. a female sovereign; wife of a king. Queer, kwer, adi, odd; dubous. Quell, kwel, 2: to stop; to subdue. duell, kwel, strip, total values, to destroy, duench, kwench, v. to slay: to destroy, duerulous, kwerú-lus, ad. tritable; complaining. duery, kwe'ri, n. a question. duery, kwe'ri, n. a question. duest, kwest, n. search; pursuit. duestion, kwest'yun, n. an inquiry; a debatable duibble, kwil'd, n. a cavil; an ewasson. [point duibte, kwil'd, n. innel ouickime, kwil'din, n. lime. duickime, kwil'sand, n. shifting sand. duickime, kwil'sand, n. shifting sand. duickime, kwil'sand, n. shifting sand. duickime, kwil'sand, consisting of living shrubs. duickime, kwil'salver, n. mercury. duiddity, kwil't., n. a cavil. duiddie, kwil't., n. a cavil. duiddie, kwil't., n. a to trile. duidanne, kwid-unngk', n. a pretender to knowledge dulescence, kwi-ce'sens, n. state of reposes. Ouidnunc, kwid-uungk', m. a pretender to knowledge Ouiescence, kwi-cs'ens, m. state of reposs. Ouiet, kwi'ret, adj, at peace; whent; still. Ouill, kwil, m. a reed; a feather-peu; v. to plait. Ouill, kwil, m. a reed; a feather-peu; v. to plait. Ouint, kwilt, m. a red; cover. Ouinary, kwin-sent'en-i-ri, adj. relating to 5x years; m. a 50th anniversary. Quincunt, kwin'kungks, m. an arrangement of five things in a square, with one in the centre. Ouinark, kwin'at, m. the king-salmon. Quinquangular, kwin-kwang'gū-lar, adj. having five angles. angles. Ouinquennial, kwin-kwen'-i-il, ani, occurring every Ouinsy, kwin'zi, s. inflammation of tonsils. Quint, kwint, s. sequence of five.

Rancid, ran'sid, adj. sour; musty. Rancorous, rangk'er-us, adj. malignant; spiteful. Random, ran'dom, adj. haphazard.

Rankle, rangh'l, v. to fester.
Rankness, rangh'l, v. to fester.
Rankness, rangh'lnes, v. sourness.
Ransack, rangh'snes, v. sourness.
Ransom, ran'son, v. to redeem; v. price paid for freedom.

freedom.

Ranula, ran'ū-la, n. tumour on the tongue of cattle.

Rapaclous, rap-ā'shus, adj. greedy. [Raphael.

Raphaellism, raf'ā-el-izm, n. the art principles of

Rapids, rapids, n. rapid current in a river,

Rapioch, rap'ich, n. homespun.

Rappare, rap-ar-ū, n. a wild Irish rover

Rappel, rā-pel', v. a drum cali.

Rapl, rapi, adj. ourcomwon.

Rare, rār, adj. uncommon.

Rarefaction, rā-rē-fak'shun, n. expansion of bodies.

Rarety, rā'ri-fi, v. to make porous.

Rarity, rā'ri-fi, n. an uncommon thing.

Rase, raz, v. to erase: to demoish
Rasorial, ra-sō'ri-al, adj. belonging to the birds which
scrape the ground for food.

Ratp, rasp, to grate: n, a rough file,
Ratable, n'(ta-b), adp, hable to be rated.
Ratable, n'(ta-b), adp, hable to be rated.
Ratan, ra-tan', n, a cane: a kind of palm.
Ratchet, rat'shet, v. check for a toothed wheel.
Rate, nit, v. to chide; to estimate: n. tax; value;
Ratification, rati-fi-k-3 shun, n. sauction. [standard.
Ratio, rā-shi-o, n. rate relation of one quantity to

another.

Rarity, rā'rī-tī, n. an uncommon thing. Rascality, ras-kal'īt-ī, n, villamy.

Ration, ra-shun, n. allowance,

Ouintal, kwint'al, n. a hundred weight.

Quintan, kwint'an, adr. occurring every fifth day.

Quinteasence, kwint-es'ens, n. concentrated extract.

Quintette, kwin-tet', n. music arranged for five parts.

Quintroon, kwin-troon', n. offspring of white and one

possessing one-succenth of negro blood.

Quintuple, kwin'tu-pl, adf. fivefold.

Quip, kwip, n. a gibe; sharp retort.

Quire, kwir, n. a quibble; a quick turn.

Quit, kwit, n. to pay; to release; to depart.

Quitch, kwich; n. couch-grass,

Quitclaim, kwif'klam, n. deed of release.

Quittent, kwit, adv. completely.

Quitrent, kwif rent, n. a rent by which other obligations of the service of tions are discharged. Quittance, kwit'ans, n. a discharge from obligation. Quitter, kwit'er, n. a hoof sore.
Quiver, kwiv'er, to tremble; a case for arrown
Quizotk, kwis-ot'ik, adp. absurdly romantic.
Quiz, kwiz, n. to banter; n. a comical fellow. Quoif, knif, n. a hood. Quoin, koin, n. a corner. Quondam, kwon'dam, adj. former. Quop, kwop, v. to move. Quorum, kwo'rum, s. number sufficient for business. Quotum, kwö'rum, n. number sufficient fo Quotu, kwō-tā, n. a proportionate part, Quotidian, kwō-td('tan, ad). daily. Quotient, kwō'shent, n. result of division, Quotum, kwō-tum, n. share; proportion.

e Rabate, ra-bāt', v to beat down.
Rabbl, rab'ī, v. a Jewsh doctor of law.
Rabbl, rab'ī, v. mot.
Rabbld, rab'īd, adv. furlous; rādd.
Raccoon, rak-koon', v a simal American wild animal.
Racc, rās, v. mankind: a breed; a speed contest. Race, ras, n. mankind; a breed; a speed contest.
Raceme, ra-selm', n. a cluster.
Rachis, ra'kis, n. the spine.
Racial, ra'si-al, ady, relating to race
Raciness, ra'si-ness, n. strength of flavour; spirited
Rackiness, ra'si-nument of torture; framework for
Racki, rak, n. an instrument of torture; framework for NACE, rak, n. an instrument of torture; framework holding articles.
Racket, rak'et, n. clamour.
Racket, rak'et, n. clamour.
Racket, rak'et, n. rent to the utmost value.
Raconteur, ra-kong-ter', n. a narrator of stories.
Radial, ra'd-al, nd', pertaining to a ray or radius.
Radiant, ra'd-ant, nd', hummous; brilliant. Radiator, ra-di-a'tor, n. apparatus for throwing out light or heat. Radical, rad'ik-al, adj. extreme; n. an ultra Liberal. Redicle, rad'i-ki, n a small root; plant embryo. Radius, ra'di-us, n. semi-diameter. Radius, Fa'dius, n. Semi-diameter.
Rafi, raf., n. a jumble; the rabble.
Rafile, raf'i, v. to throw dice for a prize.
Rafile, raf'i, v. to throw dice for a prize.
Raft, n. pleces of timber fastened together for floating
Rafters, raf'ters, n. roof timbers.
Ragamuffin, rag'a-nuivin, n. a low fellow.
Rage, rāj, n. excessive anyer; object of desire.
Rager rāj, n. excessive anyer; object of desire. Ragged, rag ed, ed; tattered; jagged; uneven. Raggut, raged, ed; tattered; jagged; uneven. Rado, raged, n. inroad; hostile invalon for plunder. Rail, rail, n. a bar of metal or wood Raillery, ral'er l, s. banter. [cars to pass over. Railway, ral'wa, s. a road hid with rails for trains or Raiment, fa'ment, n. clothing; vesture.

Raimbow, rān'bō, n. bow in the clouds caused by the
refraction and reflection of the sun's rays.

Rake, rāk, n. a garden tool; a dissolute fellow; v. to scrape Raki, rak'e, n. a spirituous liquor drunk in the East. Rally, ral'i, v. to unite.

Rambling, ram'bling, adj. wandering; desultory.

Ramification, ram-if-ik-ā'shun, n. a subdivision.

Ramose, ra'mos, adj. branching.

Rampant, ramp'ant, adj. unbridled; n. an heraldic term applied to figures of animals on their ijind legs. Rampart, ram'part, n. wall round a fortified place. Ranch, ransh, n. a cattle range; stock farm.

Ration, rā-shun, n. allowance.

Rational, rash'un-sl. ad', reasonable.

Ratinne, rat'lin, n. a small slii, 's rope.

Ratoon, rā-toon', n. a new shoot from sugar-cane
Rat's-bane, rat's bān, n. rat poison.

Ratteen, rat-ēri', n. thick kind of woollen.

Ratteen, rat-ren, v. to demolish a workman's tools
because of disobedience to trades-union. necause or disobedience to trades union.
Ratting, rating, n. setting dogs to kill rats; deserting principles; working for lower wages than others,
Rattle, rat'l, v. to clatter.
Raucity, raw'st't, n. hoarseness; harshness,
Ravel, rav'el, v. to untwist.
Ravelin, rav'el-in, n. a detached fortification. Raven, ta'ven, n. a species of crow Ravenous, raven.u., a species of the Ravenous, ravenus, adv. greedy; hinngry; voraclous, Ravine, rd.vgrv, n. a gorge; hollow between hills. Ravish, ravish, v. to transport with joy; to carry off by force; to violate. Rawhead, raw'hed, n. a spectre. Rayah, ra'ya, n. a non-Mohammedan subject of Raze, raz (same as Rare). [Turkey. Razor, ra'zor, n. a shaving instrument.
Re-absorb, ré-ab-sorb', n. to absorb afresh.
React, ré-akt', n. to act one on another: to return
an impulse. ean impulse.

Real, ri-al, ad, actual; true; sincere. [money.
Real, ri-al, ad, actual; true; sincere. [money.
Realise, ri-al-it, v. to comprehend; to convert into
Reality, ri-al'it, n. truth; certainty; that which
Reality, ri-al-it, n. real estate.

Reality are later at blued. Realm, reim, n. a kingdom.

Ream, reim, n. a coulirer.

Rearguard, rergard, n. the guard that protects the Reasgon, rein, n. intellect; the reasoning faculty; Reassert, reisert, n. to assert anew. [motive. Reassure, reid-shoor, n. to assure again. Rebatement, reid-finent, n. deduction. Rebellion, reibelyun, n. sedition; opposition to established government.

Rebuß, reibur, n. a check; repulse.

Rebuß, reibur, n. a riddle.

Rebuß, reibur, n. a riddle.

Rebuß, reibur, n. a riddle.

Recantation, reilnishun, n. the act of recanting.

Recantation, reilnishun, n. the act of recanting.

Recantation, reilnishun, n. the act of recanting.

Recantation reilnishun, n. to reiterate; to recall; to summarise. Realm, reim, n. a kingdom. Recaption, re-knp'shun, n. reprisal; act of taking Recede, re-sed', v. to retreat; to draw back. Receipt, re-set', n. an acknowledgment; a recipe.

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Recency, zé'sen-sí, n. newness.
Recension, zé-sen'shun, n. a critical revision.
Recepsacle, ré-sept'a-ki, n. a place for holding things.
Recessal é-ses', n. a cavity; a niche; vacation.
Recessal ré-ses', n. a cavity; a niche; vacation.
Recessal ré-ses', n. a cavity; a niche; vacation.
Recessal ré-ses', n. a cavity; refined: tasty; rare.
Recepse, res'i-pê, n. a prescription; formula for
making up compounds of food, etc.
Recipien, ré-siof'-ent. n. one who receives.
making up compounds of food, etc.

Recipient, rë-sip'i-ent, n. one who receives.
Reciprocal, rë-sip'ro-kai, ad/, mutual; alternating.
Reciprocate, rë-sip'ro-kai, ad/, mutual; alternating; to
Reciprocity, resi-prosi'i-t, n. interchange; to
Reciprocity, resi-prosi'i-t, n. interchange. I requite.
Recital, rë-si'tai, n. repetition of words or music;
Reckless, rek'i-s, ad/, heedless. [narration.
Reclaim, rë-klam', v. to claim back; to recover.
Recluse, rek'los, ad, noe who lives in solutude.
Recognise, rek'og-niz, v to know.
Recoll, rë-koil', v. to rebound. [membering.
Recollection, rek-b-ick'shun, n. memory; act of re-
Recommendation, rek-b-mend-a'shun, n. advice;
commendation.
 Recompense, rek'om-pens, n. reward; remuneration, Reconcile, rek'on-sil, v. to pacify; to render consistent, Recondite, rek'on-dit, adv. profound; abstruse.
  Reconnaissance, re-kon'a-sans, n. act of reconnoitring.
  Reconnoitre, rek-on-oi'tr, v. to survey with a view to
 military operations.

Record, re-kord', v. to enroll; to write an account of, Record, re-kord', v. to enroll; to write an account of, Recorder, re-kord'er, v. a municipal judge.

Recount; re-kownt', v. to relate;
Recount; ri-kownt', v. to relate
Recount; ri-kownt', v. to relate
Recounse, ri-kors', n. re-ort; application for aid.
Recover, ri-kors', n. re-ort; application for aid.
Recover, ri-k-we', n. to regam.
Recreation, rek-ri-k-houn, n. diversion; relaxation.
Recrement, rek'ri-ment, n refuse.
[sation.
Recrimination, ri-k-mi-mi-n'-houn, n. a retorted accu-
Recrudescent, rek'ri-k-roo-des'ent, adv. growing sore again.
Recrim rek-rich roo-des'ent, adv. growing sore again.
Recruit, re-kroot', n. a new solder; v to supply deficiency; to improve m health
Rectangle, rek'tang d, n. a rult-angled parallelo-
Rectiffy, rek'n-f, v to amend
Rectiffy, rek'n-f, v to amend
Rectiffy, rek'n-f, v to amend
Rectiffy, rek't-f-f, n. nt-griffy; uprightness.
Rector, rek'ton, n. a parth clergyman.
Rectom, rek'ton, n. the third of the large intestines.
Recumbert, re-kun'hent, ad, reclining
Recuperative, re-ku'per-i-tiv, adp, recovering.
Recur, re-ku, v. to return; to resort.
Recusant, rek'ii-zant, n. one who refuses to confirm.
Redactor, re-dak'tor, n. an editor.
Redden, red, n. to make red.
  Recruit, re-kroot', n. a new soldier; v to supply defi-
  Redden, red'n, v. to make red.
Redeemer, re-de'mer, v. the Saviour, one who
                   redeenis.
  Redintegrate, re-din'tê-grât, v. to renew.
Red-letter, red'ict'r, adj. marked with red letters;
remarkable, as a day
   Redolent, red'o-lent, adj. diffusing a sweet odour.
  Redoubt, re-dowt', n. a small outer fort
Redoubtable, re-dowt'abl, ady, formdable.
 Redoubtable, re-dowl'ani, ad., formulable.
Redoubt, re-dowld', v. to conduce.
Redress, re-drev', v. recompegee: v to remedy.
Red-short, red'short, ad.; denoting from at red-heat.
Red-tape, red-tap', v. formality; official routine,
Reduce, re-dus', v. to diminish; to subdue.
Redundant, re-dun'dant, ad.; excessive.
Reduplicate, re-dus'nint, ad.; v. to double again.
Red ref w a rehain of rocks; part of a sub
  Recupincate, re-dur pincar, w. to dumine again.
Reef, ref., n. a chain of rocks; part of a sail.
Reek, rek, n. smoke; vapour.
Re-eligible, re-el'ji-bl, adv. eligible again.
Re-enactment, re-en-akt'ment, n. the act of acting
                                                                                                                                                                                        strengthen.
  Re-enforce, re-en-fors', v. to enforce again; to Reeve, rev, n. a steward.
Re-export, re-eks'port, v. to export again what has been imported.
  been inported.

Refectory, re-tekt'ord, n. refreshment hall in monas-
Refectory, to appeal; to submit to another.

Refine, re-field, n. to purify.

Refine, re-field, n. to think; to throw back.

Refine, re-field, n. to think; to throw back.
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Reflex, re'ficks, adj. turned backward ; n. a reflection.

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Reflorescence, re-flor-es'ens, n. reflowering,
Refluence, reflor-ens, n. a flowing back.
Referrm, re-form's v. to change for the better,
Reformatory, re-form'st-o-ri, n. a house of correction
for juvenile offenders.
for juvenile offenders.

Refract, re-frakt', v. to bend; to turn aside.

Refract, re-frakt', v. to bend; to turn aside.

Refract, re-frakt', v. to abstain.

Refrangible, re-fran'|ib], ad/, that may be refracted.

Refreaber, re-fresh'er, v. to eto counsel for continued service; that which, or one who, refreshes.

Refrigerate, re-frij'er-gat, v. to make cool.

Refuge, ref-uj-l'; w. one who takes refuge; an Refugee, ref-uj-l'; w. one who takes refuge; an Refugee, re-fuj-l'; w. to repay; to retimburse.

Refuge, re-fuj-l', v. to repay; to retimburse.

Refuse, ref-uj-l', v. denial.

Refuse, ref-uj-l', w. denial.

Refuse, ref-uj-l', w. upoof of error.

Refuse, ref-uj-l', s. denial.

Refuse, ref-uj-l', s. upoof of error.

Regal, refyal, ad/; royal.
  Regal, rejal, adj. royal.
Regale, re gal', v. to refresh.
Regalla, re-gal'ya, u. Insignia : ensigns of royalty.
Regatta, re-gat'a, u. boat or yacht races.
   Regenerate, re-jen'er-at, v. to produce anew,
  Regent, re'jent, n. deputy ruler,
Regicide, rej'is-id, n. murderer of a king.
Régime, ra-zhem', n. administration; dictary.
  Regiment, rej'i-ment, n. a body of seldiers.
Register, rej'is-ter, n. a list; a record.
  Registrar, rej'is trar, n. a recorder.
Registry, rej'is tri, n. office of registration.
   Regrant, reg'nant, adv, reigning.
Regression, regresh'un, n. return.
Regrett, regret, n. sorrow, lament.
Regrular, reg'u-lar, adv, orderly, unform; periodical.
Regrular, reg'u-lar, adv, orderly, unform;
    Regurgitate, re-gur'h-tāt, v. to pour Back from a
Rehabilitate, re-hab-il's-āt, v. to restore. [depth.
                                                                                                                                                        [depth.
   Rehearsal, re-her'sal, m a tral performance.
Rehearse, re-hery, v to repeat; to practice,
Refination, re-firk-3-shin, n materialisation.
Religa, reyn, n, mile; prevalence.
Reimbursement, re-im-burs'ment, n act of repaying.
   Rein, reyn, n. strap of a bridle; v. to curb, Reins, reynz, n. the kidneys.
Reinsure, re-in-shoor', v. to insure again.
    Reis, rās, n. a Portuguese coin.
Reiterate, rē-it'er-āt, v. to repeat often.
  Reiterate, rř. třerát, v. to repeat often. Repoinder, rž. join'der, v. a reply. Rejuvenate, rž. joo'ven-št, v. to make young again. Relapse, re-laps', v. a falling back. v. to fall back. Relative, rel'a-tiv, adr. having relation to. Relaxation, rř. laks-šishun, v. recreation; slackening. Relay, rč.lá', v. fresh supply; v. to lay again. Release, re-leš', v. to free; to discharge. Relegation, rel-čgš'abiun, v. a swiding away; exile Relentiess, re-lent'less, ad., without relenting; unerlevand, u pertiused.
    Relevancy, rel'e-van-si, n. pertinence.
                                                                                                                                                    [pitying.
    Reliance, re-li'ans, n. trust; confidence.
Relic, rel'ik, n. a memorial; a corpse.
    Relict, rel'ikt, n. a widow.
Relief, re-lef', n. succour; release from.
Relievo, re-le'vo, n. figures in relief.
    Religion, re-hj'un, n. piety; belief, system of worship.
Relinquish, re-lingk'wish, v. to give up; to resign.
    Reinquisa, re-inga wan, v. to give up; to research, reliquary, relik-wer-i, n. casket for holding relics. Reliah, relich, v. to enjoy; n. something tasty. Relocate, re-lo-kåt', v. to locate again Reluctance, re-luk'ians, n. unwillingness.
    Remainder, re-min'der, n what remains.
    Remand, re-mand', v. to postpone; to send back.
Remedial, re-me'di-al, adj curative.
    Remembrancer, re-mem'bran-ser, n. a memento; an exchequer officer.
    Remigrate, ro-mi'grât, v. to migrate again.
Reminiscence, rom-in-is'ens, n. remembrance; a past
event recalled.
    Remiss, re-miz', v. to render back; to release.
Remission, rê-mish'on, n. relinquishment; relief.
Remissness, re-mis'nes, n. the act of being remiss;
    negligence.
Remit, re-mit', v. to pardon; to resign; to transmit.
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Remittent, re-mit'ent, any. alternately increasing and abating. [main part has been removed.]
                                                                                                                                                                                                 Respirator, res'pir-ā-tor, s. an apparatus to breathe through in bad weather.
Remnant, rem'nant, s. a fragment; what is left after
Remonstrate, re-mon'strat, v. to urge against.
Remonstrate, re-mon'strat, v. to urge against.
Remorse, re-mor', n. penitent anguish; regret.
Removal, re-moov'al, n. the act of removing.
Remunerative, re-mu'ner-at-iv, ad/, lucrative; profit-
Renal, re'nal, ad/, relating to the kidneys.
Rencounter, ren-kown'ter, n. a sudden combat;
casual meeting.
Rencounter, ren-kown'ter, n. a sudden combat; casual meeting. [returning ; a version. Rendering, ren'der-ing, n. an, impersonation; act of Rendezvous, râng'dâ-voo, n. a meeting place. Renegade, ren'ê-gâd, n. an apostate; a deserter. Renewal, re-nû'al, n. act of renewing. Rennet, ren'et, n. inner membrang of a call's stomach.
 Renounce, re-nowns', v. to cast off; to forsake.
Renovate, ren'ō-vāt, v. to renew. [fissure; v.
                                                                                                                          (fissure; v. torn.
 Rent, rent, n. money received for use of property; a Renunciation, re-nun-si-ashun, n. act of renouncing; Repair, re-par, v. to restore. [abandonment.
Repair, re-pair, v. to restore. glabandonment. Reparter, re-pairté, w. a smart retort. Repeal, re-pêt', v. to revoke; to rescand. Repeat, re-pêt', v. to do do again; to rehearse. Repeater, re-pêt'er, w. anything that repeats; a Repel, re-pel', v. to drivy back. [striking watch, Repeat, re-pel', v. to regret; to be penitent. Repertory, re-pel'to-rl, w. a treasury.
Repine, re-pin, v. to murmur; to fret.
Replenish, re-plen'ish, v. to re-stock,
Replete, re-plet, ad/. full. of a s
Replete, re-plet, ad. full. lof a seizure of goods. Replete, re-plet, ad. full. lof a seizure of goods. Replete, re-plet ad. full. lof a seizure of goods. Repletein, re-plet'in, n. a writ to determine the legality Replica, rep'licka, n. a copy done by the original replication, rep-licka'shun, n. rejoinder. lartist. Repone, re-point, n. to replace.
Reposal, repo'zal, n. act of reposing. Repository, 'te-poz'it-ò-ri, n. a store-house.
Repousse, ri-poo-sa', ad., raised in relief by hammer-Reprehend, rep-re-hend', n. to chinde; to blame. [mg. Represent, rep-re-will, n. to chinde; to blame. [mg. Represent, rep-re-will, n. to suspend a death sentence. Reprimand, rep'ri-unand, n. to reprove
Reprimand, rep'ri-unand, n. sezure m retaliation. [proach.
Reprisal, re-pri'zal, n. seizure in retaliation. [proach.
Reproachable, re-proch'abl, adj deserving of re-
Reprobate, rep'ro-bat, n. a depraved person; v to
  Reproof, re-proof, n. censure.
                                                                                                                                            [disapprove.
Reproof, re-proof, n. censure. [disapprove. Reptile, repril n, n. crawing animal. Republic, re-publick, n. a commonwealth; state governod without a sovereign. Repudiation, re-publ-d-d'shun, n. a rejection; disclama Repugnant, re-pugnant, and, offensive; histile, [tion. Repulse, re-publ', n. good character, n. to hold in esteem. Request, re-kwest', n. to ask; to solicit. Requiest, re-kwest', n. a mass for the dead.
 Requirement, re-kwir'ment, n a mass for the dead.
Requirement, re-kwir'ment, n. demand; thing re-
              quired.
  Requisite, rek'wiz-it, adj. necessary; needful.
  Requital, re-kwi'tal, n. recompense.
Reremouse, rer'mows, n. a bat.
Rescission, resizh'un, n. the act of rescinding.
Rescript, re'skript, n. an edict.
                                                                                                                                                                                                               turn away.
 Rescue, res'ku, v. to save ; to deliver.
 Research, re-serch', n. investigation.
Resent, re-zent', v. to resist; to be augered at. [land.
 Reservation, rezervashun, n. a proviso; reserved Reserve, re-zerv, n. caution; coldness, v. to retain. Reservoir, rez'er-wawr, n. place where water is Residence, res'id-ens, n. a dwelling.
Residence, res'id-ens. m. a dwelling. [collected. Resideum, n. the resideu; what re'pains. Resignation, re-zig'nā'shun, n. patience; submission. Resile, re-zig-nā'shun, n. patience; submission. Resile, re-zig'nā, n. a substance gkuded from certain trees. Resistance, re-zig'na, n. a o'pposition. Resolute, re-z'b'lat, adj. determined; ixed. Resolve, re-zig'n, n. decide; to analyse. Resonance, res'o-nans, n. sonority; reverberation. Resort, re-zor', n. place much frequented; v. to have
                                                                                                                                                                                                               or writing.
  Resort, re-zort', s. place much frequented; v. to have
              recourse.
Resource, re-zors', **. expedient; source of aid; means. Respect, res-pekt', **. regard; esteem.
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dāy; ăt; ârm; ēve; ĕlk; thêre; Ice; pīn; machine; böld; pŏt; stôrm; mūte; tūb; būrn.

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Respite, res-pit, n. delay; suspension of punishment, Respite, res-pit, n. delay; suspension of punishment, Respiendent, res-plen'(dent, ad/, glowingly by ght. Respond, res-pond', v. to reply, Responds the, res-pon'sibl, ad/, accountable.
Responsible, res-pon'stbl, adj. accountable. Responsions, res-pon'shuns, n. the University "little Responsive, ros-pon'shy, adj. answering. [go." Restaurateur, rc-tō'rā-ter, n. a restaurate kepper. Restitution, res-t'rā'shun, n. restoration of rights. Restive, res' situborn: unwilling. Restoration, res-to-rā'shun, n. recovery.
Restoration, res-to-ra'shun, n. recovery.
Restraint, re-strain', n-repression.
Restriction, re-strik'shun, n. restraint; limitation.
Restrigent, re-strni'ghen, n. an astrigent.
Resultant, re-zul'ant, n. the thing resulting.
Resume, re-zum', v. to begin again.
[dead.
Resurrection, rez-ur-ck'shun, n. a raising from the
Resuscitate, re-sus'ist, v. to revive; to restore.
Retail, ri-tal', v. to sell in detail to consumers.
Retailer, ri-tal', v. to sell in detail to consumers.
Retainer, re-tan'er, n. an attendant ; advance fee paid
           to secure services.
Retaliate, re-tal'i-at, v. to strike back.
Retard, re-tard, v. to delay; to hinder.
Retch, rech, s. ineffectual attempt to vomit.
Retention, re-ten'shun, s. act of retaining.
 Reticence, ret'i-sens, n. reserve; silence,
Reticular, ret-ik'u-lar, ad), like network
Retina, retina, unit, may me network
Retina, retina, n, the inner coating of the eye.
Retinue, retina, n, body of retainers.
Retiracy, re-tird-si, n, retirement.
Retort, re-tort', v. to answer back sharply.
Retraction, re-trak'shun, n withdrawal.
 Retreat, re-tret', n. place of retirement; act of retiring, v. to draw back.
  Retrenchment, re-trench'ment, n. curtailment.
 Retribution, ret-ri-bū'shun, n. requital.
Retrievable, re-trēv'abl. adr. that may be regained.
Retrievand, re-triev 40, 2017, that may be regain
Retrocede, re-tro-sed', 20, to go back.
Retrograde, ret'ro-sed'd, 20, going backward.
Retrospect, ret'ro-spekt, 20, view of past scenes,
Reunion, re-in'yun, 3, union after separation.
  Reveal, re-vel, v. to show, to make known.
 Revel, rev'êl, n. a boisterous feast.
Revelation, rev-el-â'shun, n. disclosure.
Revenge, re-venj', n. vengeance; desire for retalia-
             tion ; v. to injure in retaliation.
  Revenue, rev'e-nu, n moome, equicially of n State.
Reverberate, re-ver ber-at, v. to resound; to echo.
  Revere, re-ver', v. to adore: to respect
 Reverie, re-ver-t, n. a day dream; meditation.

Reverse, re-ver-t, n. misfortime; act, turned backward; v. to turn in the opposite direction.
  Reversion, re-ver'shun, n. succession in expectancy.
Revetment, re-vet'ment, n. a retaining wall or facing.
 Revetment, ro-vet ment, n. a retaining wall or facing. Review, re-vin, n. an inspection; a periodical; v. to inspect; to consider again. Pevile, re-vit, v. to reproach; to defame. Revise, re-viv, v. to renaminate; to refresh. revocable, rev'o-ka-bl, ad, that can be revoked. Revolt, re-volt, n. act of rebellion; v. to rebel; to the revoked.
 Revolution, rev-\(\delta\)-\(\delta\)-lia/shun, n. a sweeping governmental change; a motion round a centre.
 Revolver, ne-vol'ver, n. a pisto with revolver, ne-vol'slum, n, disgust repugnance. Rhabdomancy, rab'do-man-si, n. divination by rods. Rhadamanthine, rad-d-man'thin, artj. judicially inferting.
  Revolver, re-vol'ver, n. a pistol with revolving barrel.
 Rhapsody, rap'sō-df, n. a rambling discourse or Rhenish, ren'ish, adj. pertaining to the Rhine. Rhetoric, ret'o-rik, n. elegance of form in speaking
 Rheum, room, st. fluid secreted by the glands.
Rhino, ri'no, st. siking for money. [ing the nose.
Rhinoscope, ri'no-skop, st. an instrument for examin-
Rhomb, rom, st. a figure of four equal sides but
  usequal angles.

Rhomboid, rom'boid, **, a figure like a rhomb, but with the opposite sides only equal.
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Rhyme, rim. s. verse with accordant sounds at the inte endings. Rhyme, rim, **. verse with accordant sounds at the inne endings. **. a measured arrangement of words according to sound.

Riatto, reg. to, **. an old Venetian exchange; a bridge over the Grand Canal.

Ribaidary, rib'aid-ri, **. obscenity; scurrility.

Ribbon, rib'on, **. a narrow strip of silk.

Ricks, rik, **. a pile of hay or straw.

Rickets, rik'ets, **. a children's disease.

Ricochet, rik'ets, **. a children's disease.

Ricochet, ric'ans, **. deliverance; a moving away.

Riddle, rid'i, **. a puzzle; a sifter; **. to solve.

Ridd, rid'i, **. a puzzle; a sifter; **. to solve.

Ridd, rid'i, **. a puzzle; a sifter; **. to solve.

Ridd, rid', **. a nelevation; an upper protuberance.

Ridd, rid', **. a nelevation; an upper protuberance.

Ridd, rid', **. a gum with grooved bore.

Rif, rif, **. a gum with grooved bore.

Rif, rif, **. a cleft; a fassure.

Righteous, rif'yus, ard, upright; virtuous. Rift, rift, n. a cleft; a fissure.

Righteous, rif'yus, add. upright; virtuous.

Rightful, rif'ful, add. just; legal; proper.

Rigid, nyld, add. just; severe; exact.

Rigritarole, ng'mā-role, n. nousense; confused state
Rigrous, rig'or-us, add. severe.

Rigaday, ngd'day, n. Danish Parliament.

Rifl, ril, n. a small brook. Rime, rim, n. hoar-frost. Rind, rind, s. skin of fruit; bark. (disease. Rinderpest, rin'der-pest, m. an infectious cattle Ringbolt, ring'bolt, n. a ring through the head of a Ringleader, ring'le'dr, n. leader of a gang. [bolt. Ringleader, ring le'dr. n. leader of a gang. [bolt. Ringlet, nng let, n. a curl. Ringworm, rng worm, n. a skin disease. Rinse, rins, v. to cleanse with water. Riotous, ri'o-tus, ad/, tending to rot. Riparian, ripa-ir-tan, ad/, pertaining to a river bank. Riparian, rip-ing, ad/, un ripples. Ripbling, rip'ing, ad/, un ripples. Ripbling, ri'u-al, n. formula; ceremonal; book of Rival, ri'v-al, n. a competitor. Rivet, ni'v-al, n. a competitor. Rivet, ni'v-al, n. a competitor. Rivet, ni'v-a, n. an cheaded bolt that is lastened by having its other end hammered to a head. Road-hog, roid'-hog, n. a reckless motorist or cyclist having its other end hammered to a head, Road-hog, roid-hog, n, a reckless motions or cyclist Road-stead, roid-stead, n, place near shore where shaps Roan, ron, adv, dark variegated colour. [can anchor Robbery, roblert, n, theft. Robust, roblest, n, strong: hardy. Robert, rochest, n, a vestment worm by bishops Rochest robles, and strong there was developed to the robust and strong there was developed to the robust and the Rocket, rok'et, n. a frework projectile. Rococo, ro-kô'ko, adj. In architectural style full of originental details. rotamental details.

Rod, rod, n., a twig; a pole; 5i yards.

Rodent, rô'dent, n. a gnawing naminal; ad/, gnawing.

Roe, rô, n. eggs of fish; female deer.

Rogation, rô-ga'shun, n. the litany; supplication,

Roguery, rô'ger-l, n. fraud; mischief.

Roil, roil, n. to disturb or stir up. Roll, roll, v. to disturb or stir up.
Rôle, rol, w. part sustained by an actor.
Rollicking, rol'ik-ing, ad/, sportful; frolicsome.
Romaic, ro-mā'li, w. modern Greek.
Romanee, rō-man's, w. an exciting fiction.
Romaneeque, rō-man-esk, ad/, pertaining to romance.
Romantic, ro-man'sik, ad/, sentimental; fanciful.
Romp, romp, w. a frolicsome girl.
Rondeau, ron'do, w. a special form of poem. [cross.
Rood, rood, w. quarter of an acre; the figure of the
Rookery, rook'er-f, w. collection of rooks' nests; a
crowded lot of old buildings. Rool, rool, v. to ruffle.

Roost, roost, v. to perch; w. a perch.

Roost, root, w. the part of a plant which is embedded

in the earth and draws sap from the soil. Ropewalk, rôp wawk, s. place where ropes are made. Ropy, rô-pl, adj. stringy. Rosal, rôp, adj. perfaining to dew. Roseate, rô'zê-di, adj. blooming; roy. Roseate, rô'zê-di, adj. blooming; roy. Roseate, rô'zê-di, rôy bud, s. the bud of a rose. Rosette, ro-set', n. a ribbon rose.
Rosette, ro-set', n. a ribbon rose.
Rosewater, roz waw-ter, n. water tinctured with rose
Roses rorin, n. drogs of turpentine.
Rose, ros, n. scale on trees.

Roster, po'ter, s. a list of persons selected for duty. Rostral, ros'tral, self, beak-like.
Rostral, ros'tram, s. a sale platform.
Rosty, ro'zt, adf, red; rose-luned; of good promise.
Rot rot st partiely, to decompt of good promise. Rownin, row rum, w. a sate patterns.
Rowy, ro-zi, adj. red; rose-lined; of good promise.
Rot, rot, w. to putrify; to decompose.
Rotary, ro'tar-i, adj. red; revolving.
Rote, rot, w. repeating from memory.
Rote, rot, w. repeating from memory.
Rotunda, ro-tun'di. n. a round house.
Rotundity, ro-tun'di.-ti, w. roundness.
Roue, roo-zi, w. a fashionable profligate.
Rough, ruf. adj. uneven; coarse.
Rough-cast, ruf/kast, odj. rude; n. plaster mixed with
Rough-shod, ruf'shod, adj. having shoes armed with
Rough-shod, round-rob'in. n. a writing signed in
circular form so that one name does not have a
more prominent position than another.
Rout, rowt, n. a rabble; na assembly; a defeat.
Routs, root, n. course; road. Route, root, n. course; road.
Routine, roo-ten', n. the regular course.
Rowdyism, row'delizm, n. rude conduct.
Rowel, row'el, n. the wheel of a spur. Rowel, row'el, n. the wheel of a spur. Rowen, rô'en, n. a second hay crop. Rowlock, rô'lok, n. an oar rest. Royalist, ro'ial-ist, n. an acherent to a king. Royality, ro'ial-it, n. kingship.
Rubblsh, rub'ish, n. refuse; waste material. Rubble, rub'i, n. small undressed stones. Rubedity, roo-bed'it-I, n. redness. Rubedity, roo-bed'it-I, n. redness. Rubia, roo'bl-4, s. gamopetalous plants, including Rubicund, roo'bl-4, s. gamopetalous plants, imadder. Rubidum, roo-bid-fum, s. a white metallic element. Ruby, roo'bl, n. a precious stone. Ructation, ruk-ta'shun, s. the act of belching. Rudder, rud-er, n. a belin. Ruddy, rud'e, n. a belin. Ruddy, rud', s. d., red. Ruddy, rud., a.j., red.
Rudimental, roo-di-ment'al, adj. elementary.
Rue, roo, v. to regret.
Ruff, ruf, n. a plaited cloth worn round the neck.
Ruffian, ruff-an, n. a brutal fellow.
Ruffian, ruff-an, n. a brutal fellow.
Ruffie, ruff, v. to agitate; to annoy; to form like ruff.
Rugged, rug'ed, adj. rough; stormy.
Ruinous, roo'm-us, adj. destructive.
Rumbling, rum'bling, a low continuous sound.
Rumbo, rum'blo, n. a strong liquor. Rumbo, rum'bo, n. a strong liquor. Ruminant, 100/minant, n. a cud-chewing animal. Rump, rump, n. the buttocks. Rumple, rump'l, v. to wrinkle; to crush. Runagate, run'a-gal, n. a vagahond; a wandererer. Runaway, run'a-wä, n. a fugitive. Runch, runsh, n. wild radish. Rundle, run'dl, s. rung of a ladder; a bull. Runlet, run'let, s. a small cask. Rupture, rup'tur, v. to fracture ; n. hernia. Rupture, rup'túr, v. to fracture; n. hemia, Rural, roo'ral, adp. rustic. Ruse, rooz. n. a trick. Ruse, rooz. n. a trick. Ruse, rooz. n. a trick. Ruses, rus'lf, adf. full of rushes. Russet, rus'et, adf. read for reddish brown. Rustic, rus'fit, adf. read for rus-fitk's shun, n. a sending into the Rustic, rus'fit, adf. covered with rust. Ruft, rut. r. the track of a wheel. Ruthless, rook'dies, adf. pulless. Rye, rl, n. a kind of grain. Ryot, n'ot, n. a Hundu tiller of the soil.

Sabbath, sab'ath, n. Sunday; first day of the week. Sabban, sā'bl-an, n. a worshipper of heavenly bodies. Sabba, sā'bl, n. an animal bī the weasel species; adj. Sabot, sā-bl, n. a wooden'shoe. [black; of sabble fur. Sabre, sā'br, n. a broad-bladed sword. Sabulous, sab'ulus, ach'g mtty. Saccharite, sab'a'nt, n. a fine kind of feldspar, Sacharite, sab'a'nt, n. a fine kind of feldspar, Sacharite, sab'a'nt, n. a fine kind of feldspar, Sacharite, sab'a'nt, n. a mamerican Indian chief. Sachet, sab, n. a coarse hag; a loose garment. Sackbut, sab'but, n. a wind instrument.

Satiety, sa-ti'et-I, n. surfeit.

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ackcloth, sak'kloth, n. a coarse cloth.
    Sacrament, sak'rd-ment, w. the encharist.
Sacrifice, sak'rd-fis, v. to kill and offer up to God; to
Sacrifice, sik':nf:s, v. to kill and ofter up to ded; to yield up with loss.
Sacrilegious, sak:nl-2'jus, adj. profane; violating Sacrist, sa'krist, n. a sacritan; a sexton.
Saddle, sad; n. a rider's seat.
Saditon, sad':nl-un, n. a smoothing-iron.
Sadety-valve, saf'ti-valv, n. valve of a steam boller to Sag, sag, v. to bend; to give way. [obviate bursting-sagacious, shg's'hus, adj. shrewd; of ready per-Sagathy, sag'a.hu, n. a kind, of woollen. [ception, Sage, saj, adj. wise; discreet; n. a wise man; a horb. Sagittaria, saj, tt.a'rt.a', n. a species of aquatic plants. Sagum, sag'aum, n. a Roman military cloak.
Sail-loft, sa'l'oft, n. loft where sails are made.
Sail-loft, sa'l'oft, n. loft where sails are made.
Sall-loft, sall loft, n. loft where sails are made.
Sainfoin, sain foin, n. a fodder plant,
Saint, saint, n. an eminently pious person.
Saker, sa'ken, n. a kind of falcon.
Saleam, sal-lam', n. Mahoumedan word of salutation;
homage; v. to make the salaam.
Salamander, sal'a-mander, n. a striped yellow and
Salary, sal'ar-l, n. wages; stipend. [black amphibian.
Sailent, sa'l'i-ent, adj. prominent.
Sailfy, sal'i-fl, v. to form into salt.
Sailfy, sal'i-fl, v. to form into salt.
Salify, sal'i-fl, v. to form into salt.

Saline, sā'lin, act', sall', sal', saline, sā'lin, act', saline, sā'lin, act', saline, sā'lin, act', sal', pertaining to saliva,

Salivary, sal'invari, act', pertaining to saliva,

Saliva, sal'invari, act', pertaining to saliva,

Saliva, sal'invari, n. a sudden rush out, as of troops; witty

ebullition; v. to rush out suddenly.

Salmagundi, sal-magun'di, n. a pot-pourd.

Salmagundi, sal-magun'di, n. a pot-pourd.

Salon, sā-long', n. a reception room.

Salon, sā-long', n. a large hall

Salitation, sal-tā'shun, n. the act of leaping.

Salutrous, sā-oc'b'ri-v., act', healthul: wholesome.

Salvage, sal'vaj, n. that which is saved; reward for saving a shu or carpo arsea.
    saving a ship or cargo area.

Salvation, sal-va'shun, n, redemption; deliverance.

Salver, sal'ver, n, a small tray.
    Salvo, sal'vo, n. a salute with guns; an exception.
    Salvor, sal'vor, n. one who saves cargo.
  Sambo, sam'bo, n. a negro.
Samiel, sā'ml-el, n. an Arabian simoon [embroidery.
Sampler, sam'pler, n. one who samples: a piece of
Sanatory, san'a-to-n, adj conductive to health.
  Samatory, san'â-to-ri, adj conductive to health.

Sanctify, sangk'ti-fi, w. to make holy
Sanction, sangk'shun, n. ratification; v. to ratify; to
Sanction, sangk'shun, n. ratification; v. to ratify; to
Sanctim, sangk'ti-l, n. holiness; peety. [confirm.
Sanctum, sangk'ti-m, n. a sacred place.
Sand, sand, n. fine strong particles. [indifference.
Sangfroid, sang-fiwo', n. coolness; self-possession;
Sanguineous, sang-gwin'-ad, hopeful; confident.
Sanguineous, sang-gwin'-au, adj, hobounding in
Sandiane, sant'-din, n. a variety of orthoclase. [hlood.
Sanies, san'-a, n. discharge from wounds or sores
Sant'sairm, sant-a'-tim, n. sant-a'-ti
      Sanitarium, san-it-a'ri-mi, n. a health institution.
    Sanitary, san'it-ar-I, a //. hygrenic.
Sanity, san'it-I, u. saneness; soundness of mind.
    Sans, sanz, prep. without.
Sansa, san'sa, n. a tambonrine.
  Sansa, san'sa, n, a tambonine.
Sans souci, san-so-se', n freedom from care
Sapient, sa'pi-ent, adj. wise
Saping, sap'ing, n, a young tree.
Saponaceous, sap-o-na'slus, adj. sapy.
Saponfic, sai-o-n'ik, adj. mparting fluvour.
Sapphic, saf'k, adj. in the style of Sappho, the Greek
    Sapphire, safir, n. a blue precions stone. [poetess. Saracen, safa-sen, n. an Arab of the Middle Agos. Sarcasm, safkasni, n. a scomful remark; irony.
Sarcasm, sār/ka-ni, n. a scomful remark; irony. Sarcenet, sār-sā-net, n. a kind of tumour. Sarcophilus, sār-kof'ī-lus, n. a group of mersuplals, including the Tasmannan devil.

Sarcosus, sār-ko'ī-sis, n. a fieshy tumour. [as laughter. Sardonic, sār-don'ik, adf. bliter; forced; malgnant, Sartorial, sār-to'ī-tal, adf. relating to tailoring. Satanic, sa-tar-lik, adf., devilish.

Satchel, sach'el, n. a small hand-hag.

Satellite, sat'el-t, n. a small star, one of a group attendant upon a planet; an obsequious follower. Satlety, sāt'et-t, n. surfeit.
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Satin, sat'in, n. a thick lustrous kind of silk.
Satinet, sat-in-et', n. a thin kind of satin.
Satinet, sat'in-et', n. a thin kind of satin.
Satinet, sat'is-fit, n. therary ridicule; spoken ridicule.
Satisfy, sat'is-fit, n. to gratify; to supply to he full.
Saturnale, sat'u-ridit, n. to fill to excess; tughoak.
Saturnale, sat'u-ridit, adj. gloomy; sad.
Satur, sat'et, n. a sylvan god_pat god and part m.
Satur. sat'et, n. a sylvan god_pat god and part m.
  Satyr, sa'ter, n. a sylvan god, part god and part man.
Saucy, saw'si, adj. pert; mischlevous; insolent,
Sauerkraut, sowr'krowt, n. cabbage sliced and spiced.
  Saunter, sawu'ter, v. to lounge around; to stroll.
Sausage, saw'sā, n. chopped meat stuffed into a skin.
Savage, sav'sī, adj. uncivilized; wild; n. a barbarian.
 Savant, savang', n. a learned person.
Saviour, sāv'yer, n. one who saves; Jesus.
Savour, sāvor, n. flavour; taste.
  Sawyer, saw'yer, n. one who saws.
Scabbard, skab'ard, n. sword sheath.
Scabbard, skab'ard, n. sword sheath,
Scabious, skâ'b'us, adj. scabby. [small points.
Scabrous, skâ'brus, adj. rough; harsh; covered with
Scaffold, skaf'old, n. a temporary wooden erection;
platform upon which criminals are put to death.
Scagliola, skal-yo'ld, n. initation marble.
Scalade, skal-idd', n. an escalade.
Scalad, skwaid, n. to burn with a hot liquid; n. an ancient
Scandard skaladia skal
Scald, skwald, v. to burn with a hot liquid; n. an ancient Scandinavian poot.

Scale, skäl, n. a balance; covering of fish; v. to Scalene, skä-len', adj. liaving three unequal sides.

Scallop, skol'up, n. an oyster-like livalve with sinuous ruiges; a shallow dish.

Scalp, skalp, n. outer covering of the skull; v. to cut Scalpel, skal'pel, n. surgical kinte. [off the scalp Scan, skan, v. to scrutnise; to count poetic text.

Scandalise, skan'del, a. d. climbine.
  Scandent, skan'dent, ad), climbing.
  Scant, skant, adj. meagre; insufficient.
Scantle, skan'tl, v to separate into pieces.
 Scantling, skant'ling, n. a small piece.
Scantly, skant'li, edf. small; narrow, not full.
Scape, skip, n. an escape.
Scape-goat, skip's got, n. one who is made to answer
for the defaults of another.
 Scaphism, skil'zin, n. the punishment of smearing a victim with loney and leaving lim to wasps.
Scapular, skap ü-lar, att, relating to the shou'der.
Scar, skir, n. mark left by wound; a cicatrice; a rugged bank.
    Scarcity, skar sit-l, n. deficiency; rareness.
  Scarecrow, skar kro, n. an effigy or thing put up to
                     frighten away birds.
  Scarf, skårf, n. a loose garment for neck or shoulders;
 Scariskin, skårf'-skin, n. the surface skin. [a cravat. Scarify, skar'i-fi, v to scratch and cut the skin.
 Scarp, skarp, n. a steep slope.
Scathless, skath'les, adj unharmed.
Scatnless, sk.u/i-les, ad/ unharmed.
Scavenger, kav/en-tor, n. a street cleaner.
Scenery, sc/nor/, n. natural landscape; painted re-
presentations on the stage
Scenography, se-nog/raf-i, n. the art of perspective.
Sceptre, sep/st. n. stail borne by monarchs as emblem
of supercus authority
 Schedule, shed'ül, n. a list; an inventory.
Schemer, ske'mer, n. one who schemes.
  Schism, sizin, w. church disunior
 Schnapps, schnaps, n. Hollands gin.
Scholar, skol'ar, n a student; a learned man
Scholastic, skol-as'tik, adj. relating to schools
 Schooner, skoo'ner, n a two-masted vessel.
Science, si'ens, n. classified knowledge.
Scimitar, sim'ttår, n. a curved Turkish sword
Scintillation, sin-thår'shun, n. the act of sparkling; a
twinkling siming.

Sciolist, si'o-list, n. a person of superficial knowledge.

Sciolist, si'o-list, n. a person of superficial knowledge.

Scion, si'on, n an ofishoot; a descendant.

Scirtnus, skir'us, n. a hardened tunurous gland.

Scirtopod, sir'o-pod, adj. fitted for leaping.

Scisses, siz'ors, n. a clipping mstrument.

Sconce, skons, n. a candlestick; a fort; a skull.
 Sceop-net, skoop'net, n. hand-net.
Scopulate, skop'ū-lat, adj. broom-shaped.
Scorifyeskor'if-i, v. to reduce to scona.
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Scorious, sko'ri-us, adj. of the nature of slag
Scorn, skorn, n contempt; disdain.
Scot-free, skot'fre, adp. free from payment.
Scotia, so silida, n. Scotland. [ful conduct. Scoundrelism, skown'drel-izm, n. baseness; disgrace-scourge, sturi, n. a whip made for punishing purposes; v. to whip excessively.
 Scout, skowt, n. one sent out to watch the operations
Scout, skowt, n. one sent out to watch the operatio of an enemy; z. to reject.

Scow, skow, n. a flat-hottomed boat.

Scrabble, skrail', z. to scrawl

Scraggy, skrag', ad/, lean; bony; rough,

Scramble, skram'bl, z. to clutch eagerly; to climb.

Scramch, skramch, z. to clutch eagerly; to climb.
                                                                                                                                 |surface.
Scranch, skranch, v to crinich. [Surface, Scratch, scratch, v to rub with the nails; to tear the Scrawl, skrawl, v.to scribble; to make rough marks. Sc. awny, skrawln, ad, raw-boned. Sc-eech, skreich, v to scream, to cry in shrill tone. Screed, skreich v a shred; a piece of wood used for leveling plaster.
  Screen, skrein, it. anything which shelters or conceals
  Screw, skroo, n a spiral nail; v. to fasten with a screw.
 Scribe, skrib, n a writer
Scrime, skrou, v. to fence
Scrip, skrop, n a wallet; certificate of shares,
 Script, skript, n. type in matation of writing.
Scriptural, skript'u-tal, adv. according to the Scriptures.
 Scrivener, skrivener, n. one who draws up contracts. Scrofulous, skrofulus, a mailected with a rolled. Scroll, skrol, n a writing that can be rolled up; an
           architectural ornament
 Scrubby, skin b'l, adz. mean; stunted.
Scruff, skruff, a nape of the nick
 Scruple, skroo'pl, a conscientious hesitation; sograins.
Scrutinise, skrov to examine minitely. Scrutinise, skrov to examine minitely. Scrut, skrov to, n a movable stage-trap. Scrud, skud, r to sail or rin swiftly. Sculls, skul n, a stort our; a boat; v to propel by Sculls, skul n, a stort our; a boat; v to propel by Sculls, n, a, n, place for kicken utensils. [ours.
 Scullion, skullyum, n an inferior kitchen servant.
Sculptor, skullytor, n a carver in stone or wood.
 Scum, skum, n refuse, troth
Scupper, skup er, n a hole through which water is
run off from a ship's deck
  Scuppet, skip'et, a a shovel.
 Scurf, skurf, a dry scale
Scurrilous, skur il-us, ad, abusive, vulgar
  Scut, skut, ad/ short-tailed,
Scutiform, sku'tl-form, ad/, formed like a shield.
 Scuttle, skirfl, n to sink a ship by cutting holes in it. Scythe, sith n, a grass cutting tool; a sickle. Sea, se, n a large body of salt water. Sea, borne, se'born, ad/ horne on the sea.
 Seal, sol, n an aquatic annual; a stamp with device; n to affix a seal. [together, a ven of mineral. Seam, series, n, a ioning where two edges are stitched Seamstress, sems tree, n a needlewoman.
 Seance, sa'angs, n. public gathering.
Sea-pie, se'ju, n. a dish of meat and paste.
  Sear, ser, v. to worch; to cantense.
Sear, ser, v. to k.orch; to cantense,
Sea-room, ser room, n. the open sea.
Season, ser 2n, n. a period of time, v. to make tasty.
Sebaceous, se-bif'shas, ad/, pertaining to fat.
Secart, se'kant, ad/ cutting; dividing mio two parts.
Secession, se-sestion, n. separation
Seclude, se'-klood', v. to place in retirement.
Seclude, sč-klood', v. to place in retirement. Secondary, sek'unda, rad; subordmate Second, sek'unda, adj. next after the first, inferior; ne who supports; the ooth part of a mmute. Secreety, sek'reterd, v. privacy. Secretary, sek'reterd, v. one employed to write; a chief departmental officer. Secrete, sek-rit', v. to hide Sectarianism, sek-tä'ri-an-izm, v. sect devotion. Sector, sek'to, v. a anthematical instrument. Secular, sek'to, v. a anthematical instrument. Secular, sek'to-fir, v. an explosive gwoder.
 Securite, set unit any temporary spowder. Security, set unit, n. Stety; a thing pledged. Sedan, sedan, n. a portable chair-conveyance Sedate, sedin; adj. calm; quiet. Sedendary, sod'en-ta-ri, adj. inactive; sitting seduce set a contra event
  Sedge, sej, n. a coarse grass,
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Sedimestary, sed-i-men'tà-ri, adj. relating to sediment. Seditions, se-dish'us, adj. connected with sedition. Sedice, Sedis', w. to aliure: to entice from virtue. Sediulous, sed'i-uis, adj. dilure: to entice from virtue. Sediulous, sed'i-uis, adj. dilurent; assiduous. See, se. n. a diluceste; v. to liehold. Seedling, sed'inig, n. a plant from the seed. Seemingly, sem'inj. dj. adv. in appe. rance. Seemy, sem'in, adj. proper; becoming. Seesaw, sem'in, adj. proper; becoming. Seesaw, sed'i-uis, n. an up and down movemen' Seethe, seth, v. to boil; to concort.
 Seggar, seg'ar, n. clay shell in which fine pottery is
Segment, segment, n. a section. [baker
Segment, segment, n. a section.]
Segment, segment, n. a section.
Seigniory, servors, n. dominion; lordship; manor.
Seismic, sistank, adv. pertaining to carthquake.
Seismometer, si-'mom'e-ter, n. an apparatus
         measuring earth tremors.
Seizin, § 2m., n. procession
Seizin, § 2m., n. procession
Seizin, § 2m., n. th- act of seizing.
Select, § 4-lek*, att, chaire; v to choose. [ruoon.
Selenography, sci-denograds, n. description of the
Stil-denail, sei-denail, n. demail of personal
              ratification.
 Selfishness, selfishnes, n absorption in self-interest.
Self-love, selflove, n love of one's self
Self-will, self wil, n, withhouse, obstracy
Seriewin, set wit, w without so, unstancy.

Semaphore, set wit, n edge of cloth.

Semaphore, set with a semaphore, series for the steme of verbal sematology, set into to 0:0, n the steme of verbal semaphone, semblans, n likeness

Sembology, set into 0:0, n, the science of gesture.
 Semese, se-mes', any half-eaten.
Semibreve, semi-brev, n the longest note in music.
  Semicolon, sem i-ko-lon, n a punctuation mark (.).
  Seminal, sem't-ual, adj. relating to seed,
 Seminary, sem in art, n. a superior school
Seminary, seni in art, N. a superior school.

Seminiterous, seni indifferus, adj. seed-barring.

Semitic, seni it'ik, adj. pertaining to the descendants

Semivowel, seni-towich, na half-sowel. [of Shem

Semipternal, seni p-terfuel, adj. endless., perpetual,

Seniary, seni'ati, adj. containing six.

Seniaror, seni'ation n. member of a senate,

Senischal, seniari, na seward,

Senic, seniari, na di. oki.
 Semonty, som or'its, a priority in age or length of
 Sennight, sen int, a a week.
                                                                                                                        I service.
 Sensit, sen'it, it a sort of cordage
Sensation son si'shun, it feeling
 Sense, sens n, intelligence; meaning; feeling.
Sensitive, sensitiv, anti-easily affected
Sensual, sensition al, anti-canal; relating to the senses.
Sensual, sension, al, adj. canal; relating to the senses, Sentence, sentencs, a. decision [pointpose in speech, Sententious, sententishus, adj. puthy in sentences; Sentiment, ser shear, adj. feeling; perceiving Sentiment, serita-inent, n. reching; thought; sensi-Sentiny, sen'irt, n. a sentinel; a guard [biffy, Separable, sep'ar-abl, adj. capathe of separation, Sepony, se-por, n. native Indian soldier.
  Sepsis, sep'si, a rottenness.
  Septan, sep'tan any, occurring every seventh day
 Septangular, sept-ang'gu lar, any, with seven angles
  Septenary, sep'te-na-ri, n. consisting of seven.
Septenmal, sep-ten'ni-al, act, occurring every seven
  Septic, sep'tik, ad), making putrid. [years
Septuagint, sep'tù-â-jint, n. Greek version of the Old
Sepulchre, sep'ul-ker, n. a tomb. [Testament
 Sequence, see week, was consumed frequency, sequence, see week, was creasing, as to separate; to disperse. Seragbic, see aftik, adv. angelic.
Seraphic, see aftik, adv. angelic.
Seraphic, adv. withord.
  Serenade, ser-e-mad', n an out-door night-song.
  Serenity, ser en'n-1, n. calumess
Serf, serf, n. a slave
  Sergeant, sar jent, n. a non-commissioned officer,
Serial, sarrial, adj. appearing periodically: n. a story
            issued in a series.
  Seriatim, se ri-a'tim, adv one following another.
  Sericeous, ser-ish'i-us, any, silky.
 Serious, se'ti-us, ad/, grave.
Sermon, searmon, n. a discourse on a text,
Seroon, se-roon', n. package of drugs.
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Shingle, shing'g!, n. a thm board; coarse gravel. Shiny, shi'n!, ad, glossy; clear. Shipping, n. ships in general. Shipping, n. ships in general. Shipwreck, ship'rek, n. wreck of a ship. Shipwright, ship'rit, n. a ship-constructor, Shipwright, ship'rit, n. a ship-constructor, Shire, shir, v. a county; district under a sheriff.
  Serpent, ser pent, s. a snake; a bass wind instrument.
Serrate, ser rat, adj. toothed
Serried, ser'id, adj. massed; crowded.
  Serring, Serial, ad., masset; crowded.
Serving, Serving, a., the pale yellow part of the blood.
Servicealte, serviva-nbi, a., t. useful.
Servility, a., humble submission.
Servitude, servit-ud, n. service.
[so do and a haff.
Sesquipedahan, see-ku-pe-daffan, ad., comprising a
                                                                                                                                                                                                                                                                                                    Shire, shir, v. a county; district under a sheriff. Shive, shiv, w. a shice Shivery, shiv'er-l, ad/, quaky; loose. Shoal, shol, w. a unlittude, especially of fish. Shock, shok, w. a collision: a pile of sheaves. [sham. Shoddy, shod'l, w. a kind of cloth made from rags; Shoeblack, shoo'blik, w. one who black shoes. Shoot, shodt, v. to fire a gun; w. a young branch. Shop-lifter, shop'lifter, w. a shop-thief. Shopping, shop'ung, w. the act of going to shops to Shore, show, w. coast. Shorthand, shorthand, w. stenography. Shotts, shorts, w. bran; coarse meal.
 Sessile, see'l, adj. branching dheet from the stem Session, seelin, n. a sitting Setacoous, Self'shus, adj. composed of bristles. Setacoous, Se'to', w. a knead for keeping wound open. Settee, set.o', n. a knod of sofa
  Setter, set'er, n. a sporting dog.
Sever, sev'er, v. to divide.
  Severally, sev'er-al-i, adv. separately.
  Severalty, sev'er-al-ti, n. sole tenancy.
Severity, se-ver'it-i, n. rigour.
                                                                                                                                                                                                                                                                                                         Shorts, shorts, n. bran; coarse mea
    Sew, so, v. to stitch.
                                                                                                                                                                                                                                                                                                       Shotten, shot'en, adj. having ejected spawn.
Shoulder, shoi'der, n. the joint connecting the arm and
Shoulder-blade, shoi'der-blad, n. scapula. [body.
  Sewer, so'er, n. one who sews.
  Sexagenarian, sek-să-jen-ă'ri-an, n, a person of sixty.
Sexennial, seks-en'm-al, adj. happening every vix
years. [angles.
                                                                                                                                                                                                                                                                                                      Shove, shuy, v. to push.
Shovel, shuy'el, n. a tool for throwing earth.
Showbread, sho'bted, n. bread presented before
Jehovah in a Jewish sanctuary.
  Sextant, seks'tant, n, an instrument for measuring Sextile, seks'til, n, the position of two planets when
                                                                                                                                                                                                                                                                                                       Showery, show'er-1, ad/ ramy.
Showy, sho'l, ad/, gaudy.
                      60° apart.
  Sexton, seks'ton, n. an under officer of a church.
Sextaple, seks'tupl, adj. sixfold.
Sexual, seks'u-al, adj. relating to sex.
                                                                                                                                                                                                                                                                                                       Shrapnel, shrap'nel, n. shell charged with musket
Shred, shred, n. a fragment: v. to tear into small
                                                                                                                                                                                                                                                                                                    Shread, shread, n. a fragment: v. to tear into small Shrewd, shrood, ad/. keen; alert; cunning. [pieces. Shring, n. a small crustacean, Shring, shrin, n. an altar, a reliquery, Shrinkage, shrink'n, n. contraction, Shrive, shriv, v. to lieur confession.
Shrive, shriv'el, v. to wrinkle. [sheet. Shrood, shrowd, n. part of a ship's rigging; winding Shrubbery, shrub'er-l, n. a plantation of shrubs. Shring, shripy, v. to draw up the shoulders.
  Shabby, shab'i, adj. ragged; seedy
Shackles, shak'lz, n. fetters; handcuffs.
  Shades, shadz, n. place where dead are deposited;
                       obscure gloom.
 Shaft, shaft, n. an arrow; a handle; entrance to a Shaggy, shag'i, adj. rongh Shagreen, sha-gren', n. a kind of leather. Shah, sha, k. ruler of Persia
                                                                                                                                                                                                                                                                                                       Shrug, shrug, v. to draw up the shoulders
Shudder, shud'er, n. a sudden tremor; v. to tremble,
Shuffle, shuf'l, v. to evade; to alter the positions of.
  Shako, shak'o, n. a unhtary bead dress.
Shale, shal, n. slaty rock : husk.
 Shallop, shallop, in locat.
Shallop, shallop, in locat.
Shallowness, shalfones, in locat.
Shallowness, shalfones, in locat.
Sham, shallowness, shall
                                                                                                                                                                                                                                                                                                       Shunt, shunt, w to turn asale.

Shuttle, shut'l, n an instrument that conveys west to and fro within the web of a loom.
                                                                                                                                                                                                                                                                                                         Shyness, shi'ness, n. bashtuluess
                                                                                                                                                                                                                                                                                                         Sibilant, sibil-ant, ad), hissing,
                                                                                                                                                                                                                                                                                                  Side and the state of the state
 Shammy, sham'i, w. chamors leather Shampso, sham-joo', v to wash and cleanse. Shanty, shant'i, w. a hut Shapely, shap'ii, a j', well-formed. Shard, shard, w. a shell: a fragment.
                                                                                                                                                                                                                                                                                                       Sic, sik, adv. thus in the original, referring to what
                                                                                                                                                                                                                                                                                                                           looks like an error
    Shark, shark, n. a large sea-fish, a swindler.
Sharper, sharyer, n. i. cheat.
Shaster, shas'ter, n. a Hundu text-book.
Shattery, shat et.l. ady brittle.
Shaver, sha'ver, n. a sharp dealer; one who shaves,
Shawl, shawl, n a shoulder wrap
Sheat, she't, n. a bundle of things teel round.
Sheat, she't, n. to clop.
Sheathe, she'th, v. to cover; to replace in scalibard.
Sheave, she'v, n. wheel of a pulley.
Sheen, she'n, n. brightness.
Sheep's-eye, she'psl, n. a wistful gaince. Iof a sheep.
Sheep-sheath, she'y shangk, n. a nauttal knot; shapk
Sheer, she'r, n. to turn ande; adn. clear, precipitous.
Sheers, she'r, n. to turn ande; adn. clear, precipitous.
    Sharper, sharp'er, n. a cheat.
 Sheers, shell, or turn aware and, cours, precipious Sheers, shell, or turn aware for inting weights. Sheet, shell, or shell linen; piece of paper; sail-rope. Sheet-anchor, shell ang-kor, m. a large and hor. Shekel, shell, shell, shell, shell, shell, m. bard for holding things; ledge of
  Shelter, shel'ter, n. place of protection; refuse, frock.
  Shelve, shelv, v. to set aside; to provide shelves. Sheol, she'ol, n. Hades.
 Sneol, she'(o), n. landes.
Shepherd, s. a sheep-tender.
Sherbet, shep'herd, n. a drink made of water, sugar,
Sherbet, sher'bet, n. a drink made of water, sugar,
Sherli, sher'i, n. a nofficer of the law.

Sherry, sher'i, n. a strong Spanish wine.
Shibboleth, shib'bò-leth, n. watchword
Shield, sheld, n. a piece of defensive armour held in.
                    front of the body.
 Shiftless, shift'les, adj. resourceless; dull. Shillalah, shilla'la, st. a cudgel.
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Simile, sun'il-ē, n. a similitude,

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Simlous, sim'ī-us, ad/. relating to the monkey tribe.
Simmer, sim'er, v. to boil gently.
Simony, sim-on, v. dealing in church preferments.
Simoon, sim-oon, v. a hot wind.
Simous, si'gus, ad/. fat-no-ed
Simper, sim'per, v. to smile affected!
Simplicity, sim-pis'f-1, v. artles-nos.
Simplify, sim'pis'f-1, v. to make plain.
Simulate, sim'ū-lāt, v. to assume.
Simulataneous, sin-ul-tā'nē-us, ad/. at the same
      Sin, sin. w. violation of duty or divine law.
   Sin, sin, n. Youtain of out of divine law.
Sinapism, \in'ap-izm, n a mustard plaster.
Sincerity, sm-ser'it-i, n. honesty.
Sinciput, sin'si-put, n. front of the head.
Sine, sin, n, a straight line from the end of an arch.
Sinciput, sin siput, ii. Iron to the near.

Sine, sin, a. a straight line from the end of an arch.

Sine, sin, a. a straight line from the end of an arch.

Sine, sin, ii. a straight line from the end of an arch.

Sine, sin' ii. a ta tendon; a muscle.

Single, sing' ii. a. a. tendon; a muscle.

Single, sing' ii. a. a. tendon; a muscle.

Singlet, sing' gi-lar, a. a. undershirt.

Singular, sing gi-lar, a. a. a. undershirt.

Sinster, sun'is-ter, a. a. a. undershirt.

Sinstrous, sin'is-ter, a. a. undershirt.

Sinstrous, sin'is-teru, a. a. undershirt.

Sinstrous, sin'is-teru, a. a. undershirt.

Sinate, sun'is-ter, a. a. terus and out.

Sinuate, sun'is-ter, to twist in and out.

Sinuate, sun'is-ter, a. to twist in and out.

Sinuate, sun
   Sirloin, sir'loin, n. lon of beef.
Sirocco, sirok'o, n. a hot wind.
Sitology, sitol'oil, n. science of det.
Situation, sit-ū-s'hun, n. location.
Sizable, si'za-bl, adi, of suitable size; bulky.
Sizar, si'za-n, n. a lower Cambridge student.
Size, siz, n. bulk; magnitude, a gluey substance.
Skein, skan, n. a roll of yam, kind of thread.
Skeietson, skel'čion, n. frame of an animal.
Skeleton, skel'ston, n. frame of an anmal.

Skep, skep, n. I large wicker basket open at the top.

Sketch, sketch n. an outline
Skewer, skw'er, n. a pm for holding meat together.

Skidl'ul, skid', n. a drag.

Skidl'ul, skil'ul, ad/, expert

Skidl'ul, skil'ul, ad/, expert

Skidl'ul, skil'ul, n. a small boiler.

Skidlint, skil'fulh, n. a light military encounter.

Skidlints, skil'mish, n. a light military encounter.

Skidlints, skil'mish, n. a light military encounter.

Skidlints, skil'skil, ad/, easily frightened; fickle.

Skidlints, skil'skil, n. shop of the head.

Sky-rocket, skil'oket, n. a firework projectile.

Sky-sail, skil'skil, n. small sail above the royal.

Slabber, shil'er, n. to shover; to dravel.

Slabber, shil'sk, n. to quench.

Slander, sharder, n. defamation.
      Slake, slak, v. to quench.
Slander, slam'der, v. defamation.
Slang, slam, v. vulçar language
Slash, slash, v. to cut; to lit out at random.
Slat, slat, v. a thin pace of wood
Slattern, slat'ern, v. a slovenly person.
Slaty, sla'tt, av', like, or consisting of, slate.
Slaughter, slaw'ter, t. carinage; butchery.
Slaver, slaw'er, v. a slave-vessel.
      Slaver, slaver, n. a shreevessel.
Slaver, slaver, n. ashreevessel.
Slaver, slaver, n. bondage.
Slaver, slaver, n. bondage.
Sleave, slev, n. konted part of sik.
Sledge, sley, n. a heavy hammer; a sleigh.
Sleek, slek, n. p. snowlr; glossy. [for rails, etc.
Sleeper, sle'per, n. one who sleeps, a tunber support
Sleet, slev, n. a mixture of ran and had.
Sleeve, slev, n. arm-cover
Sleigh, sla, n. a wehole with runners for slading over
      Sleeps, sie, n a vehicle with runners for siding over Sleigh, sii, n a vehicle with runners for siding over Sleight, siit, n track, cumming.

Sleeps, sia, n, the reed of a loom.

Sleps, sia, n, the reed of a loom.

Slight, siit, n, neglect; a smub; add; small; feeble,

Slimp, slimb, add; most; stacky.

Slimb, slight, n, to sneak away

Slimb, slight, n, to sneak away

Slimber, shp'er, n, a low, easy shoe.
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Silppery, lip'er-I, ad/. in condition to cause one's feet to slip, uncertain; shifting.
Silpenes, ship shoe, s. a slipper.
Silver, sliv'er, s. a lengthwise mass of wool or other material combed out.
material combed out.

material combed out.

Siegan, slo gan, n. a war-cry
Siegan, slo gan, n. a siegan
Siegan, slo gan, n. a siegan
Siegan, slo gan, n. a siegan
Siegan, slo gan, n. a bogge shot
Siegan, slu, n. cast-off skin of a serpent; v to cast off,
Sloven, sluv'en, n. a slattern.

Sluggan, slog, n. a shi-bless snail.
Sluggan, slug erd, n. a hazy person; a drone
Slum, slum, n. a mean street or neighbourhood.
Slump, slum, n. a mean street or neighbourhood.
Slump, slum, n. a mean street or neighbourhood.
Slump, slum, n. a nean street or neighbourhood.
Slum, slum, n. a nean street or neighbourhood.
Slum, slum, n. a slattern.
Slut, slut, n. a slattern.
     Small-arms, smawl'arms, n. fire-arms that can be held
   Smaragdine, smarrigdin, act; emerald green.
Smart-money, smart/muni, n. money paid for a
recruit's release before being sworn in.
Smatter, smarter, v. to talk or write superficially.
   Smear, smar, v. to daub; to soil [smelting.
Smelter, smelt'er, v. one who smelts; a place for
     Smirch, smirch, v. to smear; to cloud; to degrade.
 Smirk, smirk, n. an allected smile.

Smirk, smirk, n. an allected smile.

Smittle, smirl, n. to infect.

Smittle, smirl, n. to infect.

Smoke, n. blouse: chemise. [with smoke. Smoke, n. blouse: chemise. [with smoke. covered Smoky, smoki, all. sending forth smoke: covered Smoky, smoki, all. sending forth smoke: covered Smoky, smoki, all. smoke, n. burning smoki.

Smolder smis, smoki er-me, all. burning smoki.

Smulder smis, smoki or-me, all. burning smoki.
 Smudge, smill, v. to smear with smoke or dirt., n. a ditty mark.

Smuggle, smug'l, v. to import or export goods little smutch, smuch v. to blacken with smoke.

[rally, Smuttlness, smut'l-nes, n. dirt caused by smoke; obscenty.

Snack, snak, n. a small portion, a share, d light Snag, snag, n. a broile with a slender bit.

Snag, snag, n. a shoot; a tooth standing out; a knot. Snappish, snay ish, adi, harsh in reply; pewish.

Snane, snith, n. the handle of a scythe.

Sneer, sner, v. to scoff; n. scvin; dividum [nostrils.
 Snaine, snaith, n. the handle of a scythe.

Sneer, sner, v. to scoil; n. scorn; diciam [nostrils.

Sneeze, snez, v. to scoil; n. scorn; diciam [nostrils.

Sniff, snif, v. to draw air mudbly up the nose.

Sniff, snif, v. to draw air mudbly up the nose.

Sniff, snif, v. to the snife in a half-uppressed way.

Snivel, snivel, n. to whine; n running of the irnse.

Snob, snob, m. a pretentious person; one who affects
a higher position than he can rightfully claim.

Snood, snood, n. a fillet.

Snoot, snor, v. to breathe and bly in sleep.

Snot, snort, n. to force air nosals through the nose

Snow, sno, m. frezen vapour, v. to fall in flakes of
frozen vapour.

Snub, snub, v. to check; to vlight; n. a rebuke
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rozen vapour.
Snub, snub, v. to check: to slight: n. a rebuke
Snuffers, snuffer, n. instrument for sniffing candles.
Snuffers, snuffer, n. obstructions in the nose.
Soak, s6k, v. to drench, to steep

Soak, 56k, v. to dirench, to steep
Soap, 56p, n. a compound of oils or fats and alkali,
divided broadly into toolet soaps and domestic
soaps. Pears' Soap is the leading toolet soap.
Soar, sir, v. to ily aloft.
Sobriety, so-brief-laf, n. temperance, semossess.
Sobriquet, so-brief-laf, n. a nuckname.
Socage, sok'al, n. land-tenare on terms of a fixed
Socaable, so'slad-laf, and social, frendly; familiar.
Socialism, so'shal-laim, n. communism in its varied
forms. forms

Society, so-si'et-l, n, a community; an association, the fishiomable world; social intercourse.

Sociology, so-shrologi, n scenec of social existence. Sock, sok, n, a short stocking. Socker, sok'et, n, a cavity for holding sometime Sociality, sh-lai'...l, n fellow-hip. Soddity, soil, ad., turly, covened with sods.

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Sparkish, spárk'ish, adj. gay; volatile.
Sparkan, spárkan, adj. tihii; scattered.
Sparkan, spárkan, adj. severe; hardy.
Spasm, spazm, n. a cramp; suddag twitching.
Spatula, spáru-la, n. a trowel; khife for spreading
   Sodomy, sod'o-mi, z. an unnatural crime.
   Soggy, sog'l, adj. wet; soaky.
Soil, soil, n. land; earth; v. to tarnish.
   Soirée, swaw-rā', n. an evening party.
   Sojourn, so'jurn v. to abide.
 Sojourn, so'jum v. to abide.

Solace, so'ds, n. confort; consolation; v. to console.

Solder, so'jer, n. a nan in military service. [cement.

Sole, sol, n. a fish; bottom part of foot or boot.

Solecism, ov'é-sizn, n. mcorrect language; unfitness.

Solely, so'll, adv. snigly; only.

Solemity, ol-em'nit. n. sapred ceremony; gravity.

Solidarity, sol-daf'nit. n. sindeness of interest.
                                                                                                                                                                                  oinment.
                                                                                                                                                                       Spavin, spavin, a. a disease of the joints in horses.
                                                                                                                                                                      Spawn, spawn, n. fish eggs.
Spawn, spawn, n. fish eggs.
Spawn, spawn, n. fish eggs.
Speak spawn, n. fish eggs.
Spawn, Spawn, n. fis
                                                                                                                                                                       Specie, spē'shī, n. cash.
Species, spē'shēs, n. a kind ; a class.
Solicit, soli-s'it. w. to request: to entreat.

Solidarity, sol-da'it-i, n. singlenoses of interest.

Solidity, sol-da'it-i, n. firmness.

Solidity, sol-da'it-i, n. firmness.

Solidioquise, sol-li'o-kwiz, n. to talk to one's self.

Solitude, sol'it-id, n. seclusion; a lonely spot. [menc. Solo, s'o, n. performance in one voice or one instru-

Solistital, sol-stal-id, adj. pertaining to a sol-since.

Solution, sol-li'shun, n. explanation; process of dis-

Solution, sol-li'shun, n. explanation; process of dis-

Solution, sol-li'shun, n. explanation; process of dis-

Somatology, so-mat-ol'o-j, n. the science of material

Sombre, son'br, adj. gloomy; dark; melancholy.

Somersault, sun'er-swit, n. a lap in which the

leaper turns round and alights on his feet.
                                                                                                                                                                       Specific, spes if ik, adj. definite; n. a remedy. Specify, specifi, v. to designate.
                                                                                                                                                                       Specious, spe'shus, arty, plausible.
                                                                                                                                                                                                                                                                                                           [speck.
                                                                                                                                                                       Spectale, spek'n, v. to mark with specks; n. a small Spectacle, spek'fakl, n. a scene; a sight; a pagean. Spectacles, spek'faklz, n. eye-glasses.
                                                                                                                                                                      Spectatics, spek-ta-kiz, n. eye-gasses.
Spectral, spek-ta-kiz, n. eye-gasses.
Spectral, spek-tral, ad., ghostly.
Spectroscope, spek-tro-skop, n. an instrument used m
examining spectra. [eyes.
                                                                                                                                                                       Spectrum, spectrum, n image seen after closing the Spectrum, spectrum, n, image seen after closing the Speculation, speck-u-li'shun, n, investment; con-Speculative, speck'u-la-tiv, ad/, theoretical. [jecture,
  Somnambulist, som-num'bu-list, n. a sleep-walker.
                                                                                                                                                                       Speculum, spek'ū-lum, n a reflector.
 Somniferous, rom-nifer-us, adj. causing sleep,
Somniloquist, som-nifer-us, adj. causing sleep,
Somnolent, som'no-lent, adr. sleepy; drows; [sleep,
                                                                                                                                                                      Speculari, spek trian, n a renector. Specchless, spektries, aut. dumb. Speedy, spektr, ad. quick; swift rapid. Spelter, spelter, n impure zmc. Spendthrift, spendthrift, n. a prodigal.
  Sonata, so-na'ta, n. a musical composition in three or
                                                                                                                                                                      Sperm, a annual seed, spawn
Spermacett, sper-ma seet, n whale oit,
Sphenical, sferikal, ady, globular (completely round,
Sphenical, sferiod, n a thing of sphere form but not
             more movements.
  Sonneteer, son et-er, n a composer of sonnets.
 Sonorous, so-nô'rus, ad;, resonant.
Soot, soot, n. dust from smoke
Soothe, sooth, w. to pacify: to caim; to console.
Soothes, sooth, w. to pacify: to caim; to console.
Soothism, e. to console see, w. a plausible fallary.
Sophist, softer, w. a fallarious reasoner.
Sophistics, w. w. a fallarious reasoner.
                                                                                                                                                                      Sphineter, shingki'er, s. a muscle that contracts an aperture round which it is placed.
                                                                                                                                                                      Sphinz, singks, n a mythological monster with the nead of a woman and the body of a honess.
                                                                                                                                                                      Sphygmometer, sfig-monife-ter, n, instrument for
testing the tension of arterial blood.
 Soporiferous, so-po-rif'er-us, ad), tending to sieep.
                                                                                                                                                                      Spicery, spiser-I, n. spices
 Soprano, so-pra'no, & the highest voice (treble); one
                                                                                                                                                                     Spicery, spi'serd, n. spices.
Spicular, spik'u-lar, ad sharp-pointed.
Spicy, spi'st, adz, tasty, pungent, showy.
Spigot, spik'ot, n per for a fured.
Spike, spik, n a large mail; an car of corn.
Spindle, spin'dl, n a pin round which yarn is spue.
Spindle, spin'dl, n a pin round which yarn is spue.
            who sings in such a voice.
 Sorcery, sor ser-I, n magne.
Sordid, sor did, adj. mean; avaricious.
Sorries, so-n'tez, n. a logical formula [sponging, Sorner, som'er, n. one who gets entertainment by Sorrel, sor'el, n an acid plant; aci, rather red Sorrowful, sor'e-ful, acid some full sorter.
                                                                                                                                                                     Spine, spin. n. the backbone.

Spine, spin. n. the backbone.

Spine, spin-el', n. a mineral whose main components are magnesia and alumina.
 Sorrowtul, sor'o-ful, ad., ad. regre.ful. meanchely.
Sorry, sor'l, ad., ad for something done, or for some
           person; worthless
                                                                                                                                                                      Spinosity, Spi-nos'it-l, at thorniness
Sortie, sorte, n. a sally of troops from a busieged
                                                                                                                                                                      Spinster, spin'ster, n. an unmarried woman; a
 Sot, sot, n. a drunkard
                                                                                                                                                                                                      whe
                                                                                                                                       Inlace.
Soteriology, so-te-ri-ol'o-ji, n. belief in salvation through Cl
                                                                                                                                                                      Spiracle, spira-kl. w breathing-hole
                                                                                                                                                                      Spiral, spiral, ad/, winding like the thread of a wrew.
Spira, spir, n. a steeple
Spirit, spir/it, n. vital force; soul; liveliness.
                                                                                                                                         ant
Sough, sow, v. to sigh, as the wind.
Soul, sol, n. the spirit; life; intellect.
                                                                                                                           (a contedly.
                                                                                                                                                                     Spirited, spir it-ed, adj. lively.

Spiritual, spir it-ed, adj. lively.

Spiritual, spir'it-i al, adj. holy; divine; not insternal.

Spirituality, spir'it-u-il'it-i'n holmess, nonateriality.

Spirituous, spir'it-u-is, adj. ardent; volatile.
Sounding, sownding, z. the act of asculanning the depth of water.
Soundness, sowndines, n health; vital completeness, Soup, soop, n, a nutritious concoction mad. by boiling
                                                                                                                                                                      Spirograph, spi'ro-graf, n. an instrument for measur-
          meat or vegetables in stock.
                                                                                                                                                                                 mg breathing.
Source, sors, n origin; a spring.

Souse, sows, v. to duck; to plunge into water.
                                                                                                                                                                      Spit, spit, n. saliva; an iron prong for roasting meat;
                                                                                                                                                                                 v to eject saliva from the mouth.
                                                                                                                                                                     Spite, spit, n. a grudge; malice.
Spittoon, spit-oon', n. a spit-box. [ward.
Splay-footed, spla'foot-ed, adp. with feet turned out-
Soutaine, soo-tan', n. a cassock.
Souvenir, soov-ner', n. a keepsake.
Sow, so, v. to scatter seed for it to grow.
                                                                                                                                                                     Spleen, splea, n. anger, melancholy; the milt. Splendour, splen'der, n. brilliancy; magnificence. Splenetic, splen-et'ik, adj morose; peevish.
Sow, so, s. to scatter seem for it in grow.

Space, spaw, n a nuneral-water spring,

Space, spais, n. room; distance; interval,

Spait, spait, n. a nuneral used as a flux in smelting

Span, span, n. nune inches; a period of time [metals.
                                                                                                                                                                      Splenic, splen'ik, adj. relating to the spleen.
                                                                                                                                                                     Splice, splis, v. to unite by interweaving or overlap-
Splint, splint, n thin piece of wood for holding
Spangle, spang'gl, n, a small boss of slumng metal;
v. to deck with spangles.
                                                                                                                                                                      fractured bones in place.

Spoil, spoil, v to impair; to rob: n. plunder; booty.
Spaniel, span-yel, n. a sporting dog.
Spaniel, spanyel, n. a sporting dog.
Spaniel, spangk'er, n. a sail; anything dashing; a fast
Spar, spar, n. a mast or beam; a mineral. [horse.
Spareness, spar'nes, n. leanness.
                                                                                                                                                                      Spokesman, spaks man, none who speaks for him-
                                                                                                                                                                    spinder, spö-li-ā'shun, n. pillage; plunder.
Spondee, spo-li-ā'shun, n. pillage; plunder.
Spondee, spon'dē, n. a metrical foot of two long
Spondyl, spon'dil, n. a jount.
      pareness, sparnes, n leanness.
Sparerib, spar rib, n. ribs of pork.
                                                                                                                                                                     Sponge, spunj, n. a soft, porous marine substa
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PEARS' CYCLOPAEDIA
Sponsal, spon'sal, adt. relating to betrothal or Sponsor, spon'sor, n. surety; a godfather, [marriage-spontaneous, spon-ta'ne-us, adv., voluntary; of one's Spontoon spon-toon', n a sloot pike. [own accord. Spool, spool, n a hellow cylinder for holding yarn. Sporadic. Spo-radik, adt. scattered, applied to
             epidemics.
 Sporangium, spô-ran' il-um, n. spore case.
 Spore, spor, n. a seed germ.

Sporran, spor'an, n. pouch worn in front of a kilt.

Sportful, sport'ful, ad/ full of sport; playful.
popurum, sport mi, aay full of sport; playful.
Spouse, spouz, li, and, nupital.
Spouse, spouz, li, husband or wife. [ligaments.
Sprain, pinn, v. to strain; n. an overstrain of the
Sprawl, sprawl, v. to spread; to lie stretched out,
Spree, spr. n. a caroundal.
Sprightly, spriff, adj. hvely.
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Springe, sprinj, st. a trap ; a snare. Spring-gun, spring gun, n. a trap gun that goes off when trespassors step upon it. Spring-tide, spring/tid, n. tide at the period of the new and full moon.

Springy, spring'i, adj. full of springs, elastic.

Sprite, sprit, n. a spirit.
Sprod, sprod, n. a second year salmon.

Sprout, sprowt, v. to shoot; to bud, n. shoot of a Spry, spri. ad). nimble. Spumus, spu'mus, a.r. frothy.

Spunk, spungk, n. pluck . touchwood.

Spur, spur, st. an instrument with sharp points worn on a horseman's heels and used for goading horses. Spurious, spu'ri-us, adj. counterfeit

Spurt, spurt, v. to throw out, a short sudden effort.

Sputter, sputter, n to speck infinitely.

Spy, spi, n. one who gets information for others secretly; n to make the creaty, to look, to detect Squab, skwol, ad, short and fat, n a young pigeon Squabble, skwol), at to dispute mostly

Squadron, skwod rom, n a small fleet: a company of Squalid, skwod nd. adv fund, mean, artiv. [cavalry. Squall, skwaw], n gust of wind, a violent scream Squalor, skwaw] or, n, dirt, filth; raggedness

Squamor, skwamms, ady scaly. [scatter. Squamor, skwom'der, v to spend foolishly; to Square, skwam, ady having four equal sides, v to make somere.

of gourd. [st on the ground. Squat, skwot, adi. short and thick; crouching; 2. to Squatter, skwot'er, n. a settler on n. w land. Squaw, skwaw, n. a Red Indian wife. Squaw, skwek, n a sharp, quick sound; n to make sound. Squash, skwosh, v. to crush; to press fix; n a sort

Squeamish, skwc'mish, adj. damty; fastidious Squeeze, skwez, v to crish or press, to hig.
Squill, skwil, n, a bulbons rooted plant of the
Lihacee order

Squint, skwint, v. to look obliquely.
Squire, skwir, v. a kinght's attendant; a gallant; a

country landowner

Squirm, skwirm, v. to wriggle; to shrank.

Squirt, skwirt, v. to eject in a stream. Stab, stab, n, to wound with a sharp weapon Stab, stab, n, to wound with a sharp weapon Stability, stabiliti, n, steadiness, firmness [horses. Stable, stable, adv. firm; durable; n shelter for

Stack, stak, ". pile of hay or grain; group of chimneys; to to pile.
Staddle, stad'l, n a support.

Stadium, sti'di-mm, n a Greek length measure, 6064 Staff, staf, n. a stick; a bition; lines and spaces for music characters; special others Stage, stay, n. the theatre, a raised platform; halt-

ing place on a journey.

Stage-coach, stai'koch, n. coach plying for hire

between certain stages

Staggers, stag'er, re to shock; to red.
Staggers, stag'er, re a disease in larses.
Stagnation, stag-ni-shold re inaction; absence of
Stand, stad, add, steady; serious. [inovenient.

Stake, stak, n a share-pointed stick; a post; anything u.gpred; n, to wager, to piedge.

Stalactic, stal-ak'tik, adv. pertaining to stalactire.

Stalactine, stal-ak'fit, n. pendant of limestone in Stale, stal, adr. tasteless; worn out.
Stalle, stawk, n. stem: v to walk with long strides.
Stall, stawk, n. division of a stable; a bench on which

articles are arranged for sale; special seat for clergy in a church; a certain seat in a theatre. Stallion, stal'yun, n. a male horse for breeding. Stalwart, stawl'wert, adj. robust; sturdy.

Stamen, stamen, n. male organ of a flower. Stamina, stamen-i, n. the chief strength.

Stammer, stam'er, v. to speak with impediment; n. hesitating utterance

Stampede, stam-ped, c. sudden panic among and rushing away of horses, cattle, etc.
Stanch, salash, adj. firm in principle; sound; v. to are-t the flov [support.

arre-t the flov space; so participe; solint; no support.

Stanchion, stansh'un, n. a bar or beam used as a Standard, stand'un, nu ensign; an established measure or quality, a test.

Standish, ns and/st, n, s undarg dish for pers and nik.

Stannary, stan'ard, n, tin mine; adj. relating to tin nume;

nunes Stanza, stan'z'i, n a verse [chief products. Staple, stapl, n from hoop; mirt for merchandise; Starboard, star'hôrd, adv. right ade of a ship. Starchy, starch'i, ady, stit.; precise. Stark, stark, adv. wholly; adv. downright.

Starry, sair, and whonly and temping.
Starry, sair, advanced with stars.
Startle, startl, at to trighten; to about
Starveling, starvling, n a poor, hungering person.
Statedly, saired-if, adv. n wed times

Stately, stat's, ody, dignified; grand State-room, stat'room, n a feel room on a vessel

Statesman, stats'man, n. a politician, one skilled in government.

Statics, stat'iks, n the science of bodies at rest. Station, sta'shun, n. an assigned post; cank; stop-

ping place of a raiway Stationary, sta'shun-ard, any fixed; settled Stationery, sta'shun-erd, a things sold by a stationer Statistics, status tiks, it a collection of facts and figures

Statue, stat's a an image carved in stone or metal. Statuette, stormer's remail statue.

Status, strins, remails are rank

Status, strins, remails are rank

Status, strins, n. a law, an Act of Parliament.

Staugeb, Awnsh. adv. hrm; steadtast

Stave, star' n a narrow piece of wood ; r to break ; Stay, Stay is a further necessive of the stay, S Ito thrust away.

Steakh, stelik, n a secret ert

Steam, stein, n. capeur of neated water. Steame, ste'd-rin, n. chief component of solid fat. Steatite, ste'4-tit, n, scap-tone fkinves. Steel, stel, n hardened from tool for sharpening

Steelyard, stell vard, " balance for weighing Steeple, step'l, n a spire.

Steer, ster " an ox " to guide

Steerage, ster i_{i} , n_{i} guidance; the fore part of a ship. Steerange, ster i_{i} , n_{i} guidance; the fore part of a ship. Steelar, steries, i_{i} and relating to stars. In cupher. Stendt, i_{i} steries, i_{i} an evil order.

Stencil, sten'sd, n a piece of thin metal containing letters or design cut out when can be printed on another surface by passing ink or paint brush over Stenography, stenography, stenography, but one distribution, and the stenography stenography, stenography, but one distribution, and the stenography stenography is such to be stenography, stenography, and to be stenography, stenog

only by marnage.

Step-lather, step fifther, n. father by marriage Steppe, step, n, an uncultivated plain.

Stereobate, store what, a substructure of a building. Stereometer, steric om'ester, n instrument for measur-Sterile, steril, adi barren. ling specific gravity. Stern, stern, adi, severe; n rear of ship; hind part. Stern-chase, stern'chas, n. a chase in which one ship keeps close to the stern of another.

Sternum, etern'um, n. the breast-bone. Sternutation, stern-u-ta'shun, n. the act of sneezing.

Striping, strip'ling, n. a youth.

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Strophe, strô'fē, n. introductory stanza by chorus in Greek drama, responded to by antistrophe. Structure, struk' ūr, n. a building : a frame. Struggle, strug' h. n. a striving ; a contention. Strumpet, struu' pet, n. a wanton. Stub, stub, n. a snail stunip of a tree. Stubble, stubi', n. stubi', n. stubi', n. stubi', n. bashi', n. stubi', n. stubi', n. stubi', n. stubi', n. stubi', n. bashi', n. bashi', n. bashi'a. stubi', n. stubi', n.
 Stertorus, ster to-rus, add. breathing heavily; snoring. Steward, sturard, n. a manager of an estate Stickle, stik'l, v. to contend stubbornly.
Stiffe, stiff, v. to contend studdornly.

stiffe, stiff, v. to smother; to suppress.

Stigma, stig'nid, n. a blot; mark of disgrace.

Stigmatise, stig'nid-tiz, v. to brand.

Stiletto, stil-evo, n. a small dagger.

Still-born, stil'bawrn, ad/, dead at birth. [walking.

Still, suit, n. a stick used to elevate a person when

Stimulant, stim'ulant, n. that which stimulates; an
                                                                                                                                                                                                                                                                                                                                                  Stucco, stuk'o, n. plaster.
Stud, stud, n. a set of horses; a small button.
                       alcoholic beverage.
                                                                                                                                                                                                                                                                                                                                                   Studio, stu'di-o, n. an artist's workshop
 Stingy, stin'ji, adj. mggardly; mean.
Stink, stingk, n. a bad smeil.
                                                                                                                                                                                                                                                                                                                                                  Study, stud', n. room for study; application. Stuff, stuf, n. a fabric; useless things.
   Stint, stint, v. to limit; n. a limit.
                                                                                                                                                                                                                                                                                                                                                  Stultify, stul'ti-fi, v. to make foolish.
Stumbling-block, stum'bling-blok, n. an obstacle to
   Stipend, sti'pend, n. salary; pay.
Stipulate, stip'ù lat, v. to contract; to prescribe terms.
                                                                                                                                                                                                                                                                                                                                                   Stump, stump, n. stub of a tree.
   Stirup, stirip, n. a rest for a horseman's toot.
                                                                                                                                                                                                                                                                                                                                                  Stun, stun, p. to confound: to stupefy.

Stun, stun, p. to confound: to stupefy.

Stupefy, stu'pé-fi, v. to make dull.

Stupefy, stu'pé-fi, v. to make dull.

Stupefus, stu'pé-fi, v. to make dull.

Stupefus, stu-pd-ti-fi, v. dullness; foolishness.
 Stitch, stich, v to sew.

Stitch, stich, v to sew.

Stitch, stich, v to sew.

Stockade, stokad', n an enclosure of pointed stakes.

Stockade, stokad', n an enclosure of pointed stakes.

Stockbroker, stok'broker, n. a dealer in stocks and
 Stockbroker, stok' bro'ker, n. a dealer in stocks and stocking, stok'ing, n. hose.
Stockas, stoks, n. public funds.
Stockas, stoks, n. public funds.
Stollad, stol'id, ad,' stupid; dull.
Stomach, stum'ak, n. the organ of digestion; the Stomacher, stum'ak-er, n. breast covering. [belly. 500", ston, n. a mineral; a gem; a weight of 14 lbs.; n. to cast stones.
                                                                                                                                                                                                                                                                                                                                                  Stupor, stupor, n. torpor of mad.
Sturdy, stur'dl, adj. strong; hardy; stout.
                                                                                                                                                                                                                                                                                                                                                Sturdy, stur'di, ad, Strong; narray; stour.
Stutter, sturter, v. to stannier
Sty, sti, n. pen for swine; boil on the eye.
Stygian, stij'i-an, ad, infernal,
Style, stij, n. manner; title; filament of a pistil;
pin of a dial.
Stylite, stij'iti, n. one of a class of anchorites who lived
Styptic, stip'itik, ad, that stops bleeding.
Suasion, swa'zhun, n. persuasion.
Suasion, swa'zhun, n. persuasion.
 V. to Cast stones.

To the fact that it is a fruit containing a stone. Stools, stools, n. a group of sheaves set up. Stoppage, stop'aj, n. the act of stopping. Stopple, stop'l, n. a ping or stopper for bottle or vessel. Storage, stor'aj, n. place where things are stored; rent for storing.

Store, stor, n. a shop; a warehouse; a quantity, Store, stor, n. a shop; a warehouse; a containing stories.
                                                                                                                                                                                                                                                                                                                                                Suasion, swa'zhun, n. persuasion.
Suave, swa', adz., pleasant; bland.
Sub, sub, n. a subordmate; a portion of wage in
Subacid, sub-as'id, ad/, rather sour.
Subagency, sub-n'jen-si, n. office of a sub-agent.
Subaltern, sub-al'tern, n. subordinate.
Subalternate, sub-al'tern'nit, ad/, following by turns.
Subaqueous, sub-la' webs, ad/, being under water.
Subdue, sub-di', n. to conquer; to overcome.
Suberous, si'ler-us, ad/, cork-like.
Suberous, si'ler-us, ad/, cork-like.
Suberfor lord over his vassals.
Subject, ad/, being under authority; hable,
   Stot, stot, n. a young ox,
Stout, stowt, adj. plump; large; strong.
 Stoue, stow, adp, pump; large; strong.
Stove, stow, n, place for a fre.

Stowage, sto'ai, n, act of stowing; room for atticles
Straddle, strad'l, v, to sit astrade; to walk with legs
Straight, strat, ad/, direct; in a right line.

[apart.
Straightward, strat-for werd, ad/, in a direct
course; upright.

Straightway, strat'wā, adv, immediately.

Strain straightway, strat'wā, adv, immediately.
                                                                                                                                                                                                                                                                                                                                                inferior lord over his vassals.
Subject, sub-jeck, vd., being under authority; hable, n. one who is under another; member of a state.
Subject, sub-jeck', v. to bring under power; to expose; Subject, sub-jen', v. to annex.
Subjoinder, sub-jun', v. to subdue.
Subjunctive, sub-jungk'iv, ad., subjoinded; added.
Subjunctive, sub-jungk'iv, ad., subjoinded; added.
Sublimate, sub-lim', ad., lofty: noble; grand.
Sublimary, sub'loo-na-ri, ad., relating to the world, or things beneath the moon.
Submarine, sub-mar'n', ad., under the sea.
   Strain, stran, n. a sound; music: v. to stretch; to Strainer, stran'er, n. a filtering apparatus.
   Strait, strat, ady. narrow; strict.
     Strait-jacket, strat'jak-et, n. jacket used for restrain-
     ing the arms of lunatics. [ship-planking. Strake, strak, n. iron band of a wheel; a breadth of
 Strake, strake, n. iron band of a wheel; a breadth of 
Strand, strand, n. shore; a thread of r.pe; r. to run 
Strangle, strang'gl, v. to choke. [aground. 
Strangles, strang-gl, w. a disease in young horses. 
Strapping, stray'ing, adj. tall; hig; fine. 
Stratagens, stray'ing, adj. tall; hig; fine. 
Stratagest, strat'e-jist, n. one skilled in multary tactics, 
Strath, stra'i, n. a valley through which a river runs. 
Strathfication, strat-if-ik-å'shun, n. the condition of 
heine stratified.
                                                                                                                                                                                                                                                                                                                                                things beneath the moon.
Submarine, sub-mis*ri*, ad/. under the sea.
Submit, sub-mis*ri*, ad/. under the sea.
Submit, sub-mis*, av. to yield; to refer to.
Subordinate, sub-ordinat; ad/. unferior.
Suborn, sub-pro*, av. to perjure; to bribe.
Subporne, sub-pro*, av. a summons to a witness.
Subpolar, sub-pro*/ar, ad/. below the poles.
Subscribe, sub-skrib', v. to contribute; to give; te
Subsequent, sub'sō-kwent, ad/. coming after.
Subserve, sub-serv', v. to serve subordinately; to help.
Subside, sub-sid', v. to abate; to sink down.
Subsidence, sub-sis'ens, n. means of support; the
condition of living.
                          being stratified.
   Stratum, stra'tum, n. a layer of earth.
   Streak, strek, n. a stripe; v. to mark with streaks.
Streamer, strem'er, n. a long narrow flag; a beam of
   Strenuous, stren'ū-us, adj. resolute; active; vigorous.
                                                                                                                                                                                                                                                                                                                                                Substatence, sub-sisteris, m. means of support; subscall, sub/soil, n. a layer of earth below the surface Subspecies, sub-spé'shez, m. a subdivision of a species. Substantial, sub-stan'shell, ed., real; taugride. Substantiate, sub-stan'shi-fit, v. to prove; to support. Substitute, sub-stan'shi-fit, v. to put in place of. Substratum, sub-stra'tum, m. an under stratum. Substratum, sub-stra'tum, m. an under stratum.
   Stress, stres, n. pressure; force.
Stretch, strech, v. to strain; to draw out.
   Stretcher, strech'er, n. a litter; that which stretches.
   Strew, stroo, v. to scatter.
Striated, stri'ā-ted, adj. marked with stripes
   Strickle, strik'i, n. a straight-edge; instrement for Strict, strikt, adj. exact; severe; rigid. [levelling.
                                                                                                                                                                                                                                                                                                                                                Substratum, sub-stră'um, ni an under stratum. Substructure, sub-strukt'ür. n. foundation: under Subtend, sub-tend', v. to extend under. [structure. Subterfuge, sub'ter-fuj. n. a evasion. Subterranean, geb-ter-a'né-gn, ad/. underground. Subtile, sub'til, ad/. thin; fine. Subtle, sub'til, ad/. thin; fine. Subtle, sub'til, ad/. thin; tine. Subtle, sub'til, ad/. atful; cunning. Subtract, sub-trakt', v. to deduct. Suburban, sub-ur'ban, ad/. relating to suburba, [aidy. Subvention, sub-ven'shun, n. a giving in aid; a sub-subvention, sub-ven'shun, n. a giving in aid; a sub-sub-ven'shun, n. a giving in aid; a sub-sub-ven'shun, n. a giving in aid; a sub-ven'shun, n. a giving in a
 Stricture, Strik'ur. n. censure; contraction.
Stricture, Strik'ur. n. censure; contraction.
Stridulous, strid'ulus, adj. harsh-sounding.
Strile, strif, n. contention.
Striles, strik, v. to hit; n. cessation from work by body
of work-people in order to enforce or resist
Striking, striking, adj. impressive. [demands.
Stringent, strin'[inv. n. adj. urgent; exacting; hard-
Strinale, stringlin', n. a youth.
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Subversion, sub-ver'shun, n. an overthrowing; ruin. Succedaneum, suk-sē-dā'nē-um, n. a substituted

prosperous; having

Superseasible, sü-per-sens'ibl, ad/. beyond the senses. Superseasion, sü-per-sesh'un, n. a setting aside. Supersetion, sü-per-stsh'un, n. bellef in supernatural agents, visions, omens, etc.
Superstructure, sü-per-strukt'ür, n. structure above Supervene, sü-per-strukt'ür, n. structure above Supervene, sü-per-ven', v. to happen; to come unexpectedly. thing or person.
Successful, suk-ses/ful, adj. prosp
achieved that which was aimed at. achieved that which was aimed at.
Successive suk-seiv, ad., following in order.
Succinct, suk-singkt, ad., short, clear.
Succour, suk'nr, v. to ad.; to relieve.
Succoulence, suk'ni-lens, n. niciness.
Succumb, vuk-uni, v. to yield.
Sucker, suk'er, n. that which sucks; piston of a
pump; a shoot; a river fish.
Sudorific, su-di-rick, ad.; causing perspiration.
Sudorific, su-di-rick, ad.; causing perspiration. pectedly.

Supervarient, sü-per-ve'ni-ent, adi. coming above, or Supervision, sü-per-vizh'un, m. superintendence.

Supline, sü pin', adi. lying on the back; lazy; in Suppliant, sup-plant', w. to displace. [different. Supplie, sup'i, adi. pliant. Supplients, sup'li-mest, m. an appendix; an addition; Supplicate, sup'li-kāt, w. to entreat; to pray. Supply, sup-pli', w. to furnish; to provide; m. that which is supplied. Suds, suds, n. soap and water. Sue, sii, v. to prosecute; to entreat. Sufferance, sufferans, n. endurance; permission. Sufficiency, suf-ish'en-si, n. plenty. Suffocate, suf'o-kät, v. to smother. Supportable, sup port abl, adj. that can be supported. Supposititious, sup-poz-it-ish'us, adj. imaginary; Suffragan, suf ra-gan, n. an assistant bishop Suffrage, suf ray, n. a vote; testimony [franch.se Suffragette, suf-ra-jet', n. a female advocate of women's Suffragist, suf-ra-jet, n. an upholder of votes for Suppression, sup-presh'un, n, the act of suppressing. Suppuration, sup-ur-ā'shon, n, the forming of pus. Supremacy, sū-prem'a-sī, n. the condition of being supreme. Suggest, sui-ra-jist, w. an upmoder of votes, Suggest, sui-jest, v. to hint; it on miniate. (wo Suggilation, suj-i-la'fshun, n mark from a blow. Suicidal, sú-i-si'dal, adı, of the nature of suicide. Suint, swint, n. the natural oily matter from wool. Sural, su'tal, ad), relating to the calf of the leg. Sural, sur[al, ad], relating to the call of the leg.

Surcharge, sur-chaff, w to overcharge; n, an overload,

Surcingle, sur'sing-ql, n, a girth for holding a saddle,

Surcoulus, sur'kôt, n, an overcoat. [girdle of a cassock,

Surculus, sur'kô-lus, n, a sucker; a shoot.

Surd, surd, n, a quantity incapable of being precisely

indicated by numbers, or without root.

Surety, shoot'sl, n, one who guarantees; certainty,

Surf surf a four grade by a rate. Suit, sut, w. action at law. Suitable, sut'abl, adj proper; befitting. Suite, swet, a body of followers; a set of articles of furniture; a series of rooms. turnture; a series of rooms.
Sultor, sivior, n. a lover; one who sues at law.
Sulkiness, sulk'ines, n. sullenness.
Sullen, sul'en, ad/. morose; sulky.
Sulphuret, sul-fir-et', n. sulphur combined with an alkal, earth, or metal.
Sulphurous, sul'fur-ns, ad/. of the nature of sulphur.
Sultan, sul'tan, n. the monarch of Turkey.
Sultan, sul'tan, n. the monarch of Turkey. Surety, shoor?!, m. one who guarantees; certainty. Surf, surf, m. foain made by waves. Surfielt, surfit, v. to cloy; n. excess. Surgeon, surfun, n. cne who practises surgery. Surily, surfil, ad, morose; mean; crabbed. Surmise, surmize, v. to suspect. Surmountable, sur-mownt'abl, ad/, capable of being Surname, surfiain, n. faginly name. [overcome, Surplice, surfilis, n. garment worn by clergymen and priests. Sultana, sulta'na, n. mother, wife, or daughter of a Sultry, sul'tri, ad, hot; close.

Summary, sun'ari, ad, short; n. an abstract.

Summarton, sun'ari, ad, short; n. an abstract. priests. Surplus, sur'plus, n. excess: more than required.
Surprise, sur-priz', n. act of taking unawares; amazement. Summit, sum'it, st. top. Summon, sum'on, v. to call Sump, sump, n. pit for receiving fusing metal. Surrender, sur-en'der, v. to yield up; to resign. Surreptitious, sur-ep-tish'us, ad, done by stealth. Surrogate, sur'o-gat, n. a deputy. Sumptuary, sumpt'u-ar-i, ad/, relating to or limiting Surrout, sur-too', n. a close-fitting coat. [intendence. Surveillance, sur-vel'yan, n. watchfulness; super-Survey, sur va', v. to look; to examine; to measure land; n view; examination. Sumptuous, sumpt'ū-us, adj. costly; rich; splendid. eam, sun'bem, n. a sun ray. Sundial, sun'di-al, n. an instrument for telling the time by means of the sin's sharlow cast by a style. Sundry, sun'dri, adj. several. Survivor, sur-vi'vor, n. one who outlives another.
Susceptible, sus-sep'tibl. adj. impressionable; sensi-Sun-myth, sun'mith, n. solar myth. Sunstroke, sun'strok, n. a disease resulting from ex-Suspect, sus-pekt', v. to doubt. [tive. Suspense, sus-pear, 27 to none. [tive. Suspense, sus-pense, uncertainty; an anxious wait-Suspiration, sus-per's shun, n. act of sighing. [ling. Sustain, w.t. ou uphold; to maintain; to pro-Sustenance, sus'ten-ans, n. food; maintenance. [long. Suttle, siv'll, ad/, done by stitching.

Suttler, sut'ller, n. an army follower who sells provisions. posure to the sun. Sups, sup, v. to swallow liquid; to take supper,
Super, su'per, n. a stage supernumerary,
Superable, su'per-abl, ad. capable of being overcome.
Superable, su'per-abl, ad. capable of being overcome. enough. enough.

Superaniuate, sū-per-ariū-āt, v. to grant pension to.

Superb, su-perb', ad,, magnificent.

Supercargo, sū-per kār'go, n. an officer having charge
of a ship's cargo.

Superciliary, sū-per-sil'-āt-i, ad/, above the eyebrow.

Supercilians, sū-per-sil'-us, ad/, proud; overbearing.

Supereminent, sū-per-em'in-em, ad/, enument in a high
degree. Suture, su'tur, r. a seam; the sewing up of a wound, joint of the skull, Suzerain, sû'zê-rân, w. a paramount ruler or lord. Swab, swoh, n. a mop; v. to cleanse with a mop. Swaddle, swod'l, v. to swathe. Swaddle, swod', v. to swathe.
Swagger, swa', v. v. to brag.
Swain, swan, n. a peasunt: a lover; a youth.
Swale, swal, n. a shady place.
Swallow, swol'o, n. a migratory bird; v. to take down
Swand, swawrd, n. grass; turf; lawn.
[the throat.
Swarthy, swawrthi, ad, dark-skinned.
Swarth, swawth, n. a line of grass or corn cut down degree. [more than is necessary. Superragation, sil-per-er-ò-gi's lun, n. a dong of Superfacial, su-per-fish'al, adj. shallow; on the surface. Superfluous, su-per floo-us, adj unnecessary. Superinduce, su-per-in-dis', v. to bring upon; to superadd. with the scythe. Swathe, swath, v. to bind with bandages Superintendent, super-in-tend'ent, n. an overseer.
Superiority, super-in-or'it-I, n. excellence; higher rank; advantage. Sway, swa', v. to govern; to wield; to influence; a Sweat, swet, n perspiration. [rule raint; advantage.

Superlative, sü-perlätiv, ad/. best; in the highest

Supernal, sü-pernal, ad/. celestial. [degree.

Supernatural, su-pernat'ü-ral, ad/. miraculous;

sportival. [prescribed number.

Supernumerary, sü-pernu'mer-är-l, ad/. above the

Superscribting; ü-per-skrip'shun, m. act of sper
surfbing; that which is written on the outside. Sweepstakes, swep'staks, n. a sort of private lottery on a race or other contest. Swell, swel, v. to dilate; n. a fop. Sweiter, swei'ter, v. to suffer from excessive heat. Swill, swil, v. to drench: to wash; to drink eagerly. Swimmingly, swiming-if, adv. as if swimming Swindler, swind'ier, s. a cheat. [smooth.]

day; at: arm: eve: elk: there: ice: pin: machine: bold; pot; storm; mute; tub; burn.

Tag, tag, st. any small thing tacked to another.
Taggers, tag'ers, st. thin sheet iron.
Taint, tain, st. to infect; st. corruption; infection.
Taient, tai'ent, st. ability; staturing fit; a weight.
Talesman, it'lez-inan, st. one chosen to supply vacancy Swingle, swing'gl, v. to beat flax.
Swinish, swi'nish, adi. piggsh; gross.
Switch, swich, u. a straight twig; a movable tail v.
to beat with a switch; to turn ande by switch rail. Switchman, swich'man, st. one who operates a rail-way switch. in jury complement.

Talisman, tal'iz-man, n. a charm.

Talkative, tawk'at-'v, as/s. loquacious.

Talith, tal'in', n. Jewish prayer mantie. Swivel, swivel, n. a ring that turns on a staple. Swoon, swoon, w to faint; n. a fainting fit.
Swoon, swoon, w to faint; n. a fainting fit.
Swoon, swoon, w to sweep down upon.
Sycophant, sik 'o-faint, n. a fawing flatterer.
Sylable, sil' 2-bl, n. a letter or combination of letters Tallow, tal'o, n. melted annual fat.

Talma, tal'ma, n. the name of a mantle for women and of a kind of overcoat for men. forming one sound. Talon, tal'on, n. claw of a bird of prey. Syllabus, sil'A-bus, n. a compendium; an outline. Talus, ta'lus, n. slope of a rampart. Tambour, $t_{nn'}$ boor, n, a small drum. Tambourine, $t_{nn'}$ booren', n, a shallow drum held in Syllogism, sil'o jizm, n. an argument consisting of two propositions and a conclusion. Sylph, sif, n. a fairy.
Sylvan, sif'van, att, relating to woods.
Symbol, sin'bol, n. an emblem, a token; a type.
Symbolics, sim-bol'iks, n. study of creeds. Tamper, tamper, v. to interfere with. Tampion, tan' pion, n. cannon stopper.

Tan, tan, anj. light brown colour; v. to convert skins into leather; to beat. Tandem, tan'dem, adv. one before the other. Symmetry, sim'e-tri, n. the condition of proper proportion of parts.

Sympathetic, sin-pa-thet'ik, adj. compassionate.

Symphony, sin'fo-ni, n. an orchestral composition. Tang, tang, n. a strong taste, tongue of a buckle. Tangent, tan'jent, n a line that touches a curve without cutting into it.

Tankard, tangk'ard, n. a drinking vessel. Symphysis, sun'fi-sis, n. union of parts normally Tannery, tan'er-i, n. place where leather is tanned. Tantalising, tan'tal-i2-ing, adv. teasing; tormenting. separate. la feast. Symposium, sim-po'zi-um, n. banquet of phalosophers; Sym, tomatic, sim-to-inat'ik, adj. relating to symposymagogue, sim'asogu, na Jewish church. tonis. Synchronal, sing'kro-nal, adj. happening sumitane-Tantamount, tan'ta-mownt, adi, cersong; tofmening.

Tantamount, tan'ta-mownt, adi, cejuvalent.

Tap, tap, v. to strike gently; to pierce; to let out hiquid; n. a pipe through which fiquors are drawn.

Tape, tap, n. a marrow fillet or band.

Taper, taper, n. a pail and southern the dimminsh. flong a note of music. ously. Syncopate, sing ko pāt, w to contract a word; to pro-Syncopate, sing ko pē, m the omasion of letters in a Syndic, sin'dik, m, a magistrate. [word; a swoon, Syndi, shi'dd, m, an ecclesiastical body. Taper, ta'per, n. a small was candle ; v. to gradually Tape-worm, tap'warm, n. an intestmal worm. Tapis, ta-pe', n. carpet. Tap-100m, tap'room, n, room where liquors are Tap-root, tap'root, n, the central root. [served. Synonym, sin'o-nin, n a word having the same meaning as another word.

Synonyme, sin'o-nin, n a word having the same meaning as another word.

Synoptical, sin-o'r kill, ad/, offering a general view.

Syntax, sin'taks, n, the proper ariangement of words Tappet, tap'et, n. a machine lever.
Tardy, tar'di, ad), late.
Tare, tar, n. allowance weight for cask or bag, a Target, target, n. a mark to shoot at. [weed, Targum, targum, n. the Aramaic versions of the Old m sentences. [sejurate parts. Synthesis, sin'the-sis, n. making a whole out of Syringe, sir'inj, n. an instrument for injecting liquids. Tarn, târn, n, a small lake. [Ter Tarnish, târ'msh, v to soil; to taint. Tarpaulin, târ-paw'im, n, tar-covered canvas. | Testament. Syrup, sir'up, n. sweet juice. System, sis'tem, n. a formulated method; methodical arrangement; the human organism. Tarry, tar'ri, v. to inger; to delay.

Tart, tart, n an article of pastry; ad/, sour.

Tartanse, tar'tar-u, v. to impregnate with tartar.

Tartunge, tar-toof', n. a hypocrite. Systyle, sis'til, n. an arrangement of columns so that they are only two diameters apart. Syzygy, siz'-f-si, n the conjunction of two heavenly bodies in a line with the earth. Task, task, n. lesson, an imposed duty,
Tassel, tas'l, n. a bunch of silk [n. discernment. Taste, its., v. to partiake of; to try the flavour of; Tatter, tafer, v. a rag. v. to tear into pieces. Tatter, taff, v. idle gossip; v. to prate. Tattoo, taftoo; v. a. drum and bugle call to soldiers; designs pricked into the skin. Tab, tab, n. a small tag or flap. Tabard, tab'ard, n. an old-time military tunic Tabard, tab'ard, n. m'old-time military tunic
Tabaret, tab'aret, n. striped silk for upholstering.
Tabby, tab'i, ad, brindled; n. a kind of watered silk.
Tabby, tab'i, ad, brindled; n. a kind of watered silk.
Tabella, tib-bel'a, n. a me, leated lozenge.
Tabernacle, tab'er-nak'i, n. place of worship; tent.
Tabid, tab'id, ad, wasted by discase. [timing tabular,
Tablature, tab'la'tur, n. a painting on a wail; any
Table, ti'dl, n. a flat board suppo, tect by legy, a list.
Tableau, tab-id', n. a picture, numan representation
in ministron of a picture.
Table d'inte, tâ'bl-dôt, n. a fixed-price meal at hotel
are restaured. designs pricked into the skin.

Taut, tawn, ad/, tight.

Taunt, tawnt, a. to deride.

Tautology, taw-to'0-ji, n. needless repetition.

Taw, taw, n. a marble, v. to dress white leather.

Tawd, taw, n. a marble, v. to dress white leather.

Tawn, taw'in, ad/, brownish yellow.

Tawn, taw'in, ad/, brownish yellow.

Tax, taks, n. a public rate; v. to impose a tax.

Taxidermy, taks-fedrin, n. the art of preserving

Teacher, tech'er, n. au unstructor.

Team ten, n. two or wore liveres. or restaurant. [land. Table-land, ta'bl-land, n. an elevated flat trust of Tablet, tab'let, n. a small flat surface for positing or Team, icin, n. two or more horse.

Tease, tez, v. to annoy, to ruse map on cloth.

Tease, tez, v. to annoy, to ruse map on cloth.

Tease, tez, v. to annoy, to ruse map.

Teat, tet, n. the maple.

Teat, tet, n. the maple. writing upon.

Tabou, tā-boo', n. a prohibition.

Tabour, tā'bor, n. a small drum. art or a profession.

Tectonic, tek-tor'ık, adj. relating to building.

Tectorial, tek-tö'ri-al, adj. covering. Tabret, ta'bret, n. a small tabour.

Tachometer, ti-kom'e-ter, n. an instrument for measuring velocity.

Taciturn, tas'it-urn, adj. reserved; silent. Ted, ted, v. to spread new-mown grass. Tedious, te'di-us, ad/ irksome. Tacitum, tas'n-um, an', reserved; silent.
Tackle, tak'l, n. apparatus for raising weights;
bsbing implements; v. to catch hold of.
Tackling, tak'ling, n. harness; ship-ngging.
Tacky, tak'l, an', sticky.
Tact, tak'l, n. discernment; alertness; skill.
Tactics, tak'lis, n. science of mancuvring in warTactical, tak'lis, n. science of mancuvring in warTactical, taf'lis, n. cience of mancuvring in warTactical, taf'lis, n. piper part of a ship's stem.
Tafferel, n. upper part of a ship's stem. Teem, tein, v. to be full. Teens, tenz. m, years of age between 1s and 2e. Teens, tenz. m, years of age between 1s and 2e. Teetotum, 16-to tunn, m. a spinning toy. Tegular, tegular, teny, pertarming to tiles. Telepathy, tel'-6-pil, m. science of final causes. Telepathy, tel'-6-pil, m. though transmission. Telepathy, tel'-6-pil, m. an electrical instrument for carried the tunner of powers, tel distances for the telepathy inspires of powers, tel distances.

reproducing images of objects at a distance.

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Theatre the 4-ter, m. a playhouse; place for exhibitions or lectures; any scene of action.
Theave, they, m. a first year's ewe.
Theist, the ist, m. a believer in the sm.
Telesia, tel-ĕ'si-a, n. the sapplire.
Teller, tel'er, n. paying officer at a bank; one who
Telluric, tel-ŵ'rik, add, relating to the earth.
Temerit, te-mer'it-i, n. rashness.
  Temper, sem'per, n. frame of mind; mood; v. to
                                                                                                                                                                                                                                                     Theme, them, n. subject. [ment. Theocracy, the-ok'rd-si, n. a state of divine govern-
                       noderate; to soften.
  Temperate, tem'per-at, adj. moderate.
Temperature, tem'per-at-ur, n. condition in reference
                                                                                                                                                                                                                                                       Theodicy, the od'is i, n. the theory of Divine Provi
                                                                                                                                                                                                                                                                       dence.
                 to heat or cold.
                                                                                                                                                                                                                                                     Theologian, the-6-10'jl-an, n. one learned in theology. Theomorphic, the-6-mor'fik, adj. in the form of a
 to near or cold.
Tempetuous, tem-pest'ū-us, adj. stormy; violent.
Temple, temp'l, n. place of worship.
Templet, tem'plet, n. pattern for moulding.
Tempo, tem'po, n. time: rhythm.
Temporal, tem'po-ral, adj. translent; worldly; un-
Temporary, tem'po-ral, adj. unf for a time.
Temporary, tem'po-riz, n. to compromise; to delay.
Tempt temp n. to sey; to allure.
                                                                                                                                                                                                                                                                    god.
                                                                                                                                                                                                                                                  god. [presence.
Theophany, the of and, n. manifestation of divine
Theorem, the of and, n. manifestation of divine
Theorem, the of arm, n. a proposition submitted for
Theorem, the of a manifestation of proof.
Thermal, ther and, adj. pertaining to heat.
Thermalst, ther and, adj. pertaining to heat.
Thermalst, ther would not the near regulator.
Thesis, the sis, n. subject projounded for discussion.
Thespian, the sp'lan, adj. relating to tragedy; also
applied to acting generally.
There is a thirty of the office of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                              [presence.
  Tempt, tempt, v. to test; to allure,
Te.mulence, tem'u-lens, n. intoxication,
Tenable, tem'a-bl, adj. maintainable.
 Tenacity, ten-as'it.i.m. firmness. [handling veins. Tenaculum, te-nak'ū-lum, n. a surgical instrument for Tenancy, ten'an-si, n. the holding of property at a Tend, tend. v. to guard: to watch. [rental.
                                                                                                                                                                                                                                                    applied to acting generally.

Theury, 'hê'ur-ji, n. supernatural magic.

Thew, 'hû, n. sinew.

Thible, 'hi'bi, n. a porridge silrrer.

Thicket, 'hik'et, n. low, closely set trees or shrubs.

Thievery, 'hêv'er-i, n. theft; roguery.

Thigh, 'hî, n. top part of leg.

Thilli, 'hii, n. carl-shaft.

Thumble, 'hhi'bi, n. finger-cap used in sewing.

Those, 'home y n. levelber stran.
Tender, ten'der, in a fuel car attached to a locomotive; an ofter; adr. soft; delicate.
Tendon, ten'dion, n. a ligament.
Tendril, ten'dril, n. spiral shoot of a plant.
Tenebrous, ten'é-brus, adr. gloomy.
Tenement, ten'é-hent, n. a dwelling; an apartment.
Tenet, ten'et, n. opinion; doctrine; principle.
Tenon, ten'on, n. piece of timber fitting in a mortice.
Tenon, ten'on, n. continued course; purport; part in music between bass and alto; a tenor singer.
Tense, tens, n. time-expressing linkection of a verb; adf, tightly stretched.
Tentacle, ten'tal-li, n. feeler of insects.
Tentative, ten'tal-liv, adr. experimental.
Tenuity, ten'ital-iv, adr. experimental.
  Tender, ten'der, n. a fuel car attached to a locomotive;
                                                                                                                                                                                                                                                       Thong, thong, n. a leather strap.
Thorough, thur's, adj. complete.
                                                                                                                                                                                                                                                    Thorough, thirto, att, complete.
Thought, thawt, n. the action of the mind; reasoning power; idea; meditanon.
Thousand, thow zand, n. ten hundred.
Thrashousand, thrash, w. to beat [to insert a thread.
Thrash, thrash, w. to beat [to insert a thread.
Thread, thred, n. a small twist of fibre; fi filament; w.
Threadbare, thred baneac, worn out; hackneyed.
Thread, thret, n. a menace.
Threnody, thren'old, n. odo of lament.
Threshold, thresh'old, n. door-sill.
Thridacium, thrida'si-um, n. thickened lettuce juice
Thrift, thrift, n. fregality,
Throat, thrift, n. the front part of the neck.
Throe, thro, n. extreme pain.
  Tenuity, ten-ü'n-l, n. thuness; slenderness.
Tenure, ten-ü'n, n. the act of holding.
  Tepefaction, tep'é-fak'shun, n the act of making tepid.
Tepid, tep'id, ad lukewarm.
Teraphim, ter-4-fiin, n household gods.
 Teraphim, ter-a-hin, n household gods.
Tercentenary, ter-sen-lie-na-n, n. a 300th analysesary.
Tergiversation, ter-ju-er-si/shun, n. shiftness of con-
Term, term, n. a limited time; an expression. [duct.
Termagant, ter'min-gant, n. a hot-tempered woman;
Terminology, ter-min-ol'oj-l, n. explanation of terms
Tern, tern, n. an aquato foul.

Termage terminology, ter-min-ol'oj-l, n. explanation of terms
Tern, tern, n. an aquato foul.
                                                                                                                                                                                                                                                       Throe, thro, n. extreme pain.
                                                                                                                                                                                                                                                     Throng, N. a crowd.
Throttle, throng, n. a crowd.
Throttle, thrott, n. the windplpe; v. to choke.
Throwster, throw-ster, n. a sik-twister.
Throwster, throw-ster, n. a sik-twister.
Thrum, thrum, n. unused ends of wcaver's years v.
   Terrace, ter'as, n. an elevated bank; an elevated row
                                                                                                                                                                                                                                                        to play carelessly with the fingers.
Thud, thud, s. the dull sound of a blow or fall.
                  of houses; a flat roof.
                                                                                                                                                                                       [and water
  Terraqueous, ter-ak' we-us, adi, composed of both land Terrene, ter-en', adi, relating to the earth.

Terretrial, ter-es'trial, adi, pertaining to the earth.
                                                                                                                                                                                                                                                     Thug, thug, n an East Indian robber.
Thug, thug, n an East Indian robber.
Thule, thug, n an East Indian robber.
Thule, thug, n an East Indian robber.
Thumbscrew, thum'skroo, n an old instrumeng of
Thump, thump, v to strike.
[pumshment
Thunderbott, thun'der-struk, ed/. suddenly amazed.
Thunderstruck, thun'der-struk, ed/. suddenly amazed.
   Territory, ter'it-o-ri, n. country; state; domain.
    Terror, ter'ur, n. excessive fear.
   Terse, ters, ady concise; short; forcible.
Tertian, ter'shi-in, ady, happening every three days.
Tesselate, toe'clat, v. to put down tesselated squares
Testacea, tes-tâ'shi-ā, n. shelled animals. [or tiles
                                                                                                                                                                                                                                                       Thwack, thwak v. to thump.
Thwark, thwak v. to thump.
Thwark, thwaw v., adj. crosswise; v. to oppose.
Tibial, tib'l-al, adj. relating to the large bone of the
   Testamentary, tes-tà-ment'ar-i, ad:, relating to a will.
Testamur, test-à'mur, n. university certificate of ex-
                                                                                                                                                                                                                                                        Tice, its, v. to entice.

Tice, tis, v. to entice.

Tick, tik, v. to chick; n. credit; an insect; covering
Tickle, tik'l, v. to please; to titillate.

[of bedding
Tide, tid, n. flow of the sea
                   amination
  Testator, te-tā'tor, n. a man who leaves a will. Tester, tes'tet, n. bed canopy; an oarthen pot. Testicle, tes'ti-kl, n. seed-secreting gland. Testify, tes'ti-fi. v. to bear witness. Testy, test't, adj. fretful. Tetanus, tet'anus, n. cramp in the muscles; lockjaw. Tetanus, tet'anus, n. cramp in the muscles; lockjaw. Tetanus, tet'anus, n. cramp in the muscles; lockjaw. Tetanus, tet'i-fi. n. v. cramp in the muscles; lockjaw. Tetanus, tet'i-fi. n. n. rampic. h. tethering rope. Tether, tett'eff. on. n. a figure with four angles. Teutonic, tew-torilk, adj. German. Tew. ten. v. to toli; to work un: t. warry.
    Testator, tes-tă'tor, n. a man who leaves a will.
                                                                                                                                                                                                                                                        Tide-gate, tid'gat, n. gate that shuts in the tide.
Tidemill, tid'mil, n. mill worked by tidal water.
                                                                                                                                                                                                                                                        Tidings, tid'ingz, n news.
Tidy, ti'di, adj neat; spruce.
                                                                                                                                                                                                                                                         Tier, ter, n. a row.
                                                                                                                                                                                                                                                        Tierce, ters, n. a 42-gallon cask.
Tiff, tif, n. a pettish quarrel.
Tiffany, tifan-l, n. a kind of silk.
Tight, tit, adj. firm.
  Teutonic, tew-ton'ik, adj. Cerman.
Tew. tew, w. to toi; to work up; to worry.
Textile, teks'tii, adj. woven.
Textual, teks'tii.adj. woven.
Textual, teks'tii.adj. woven.
Thack, thak, n. thatch (Old English). (the text.
Thaillium, thai'i.um, n. a metal resembling lead.
Thanntoid, than'i.n.ch, adj. ghastly; deadly.
Thanh, than, n. an Anglo-Safano noble.
Thatch, than, n. an Anglo-Safano course with temperature.
                                                                                                                                                                                                                                                        Tile, til, n a small square of baked clay.
Tillage, til'āj, n. cultivation.
Tilt, tilt, v. to incline; n. a thrust; military practice.
                                                                                                                                                                                                                                                         Tilth, tilth, n. depth of soil; cultivated land.
                                                                                                                                                                                                                                                        Timber, tim'ber, n. building wood.
Timbre, tim'ber, n. quality of tone.
Timbrel, tim'brel, n. a kind of tambourine.
    Thatch, thach, n. a straw roof; v. to cover with straw.
                                                                                                                                                                                                                                                         Timely, tim'll, adj. in due time; when wanted.
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Trace, trās, w. a mark; a footstep; v. to track.
Track, trak, v. to trace; n. a road.
Tract, trakt, s. a space of territory; a small, religious
Tractable, trakt'ābl, ad/. docile; easy to manage.
    Time-server, tim'serv-er, s. one who shapes his views
      to his own interests.

Timid, tim'id, ad/, bashful; faint-hearted.
      Timon, ti'mon, s. a helm.
    Tinocthy, turb'o'Ai, n. a kind of grass.
Tincture, ting's tur, n. a solution.
Tinder, th'der, n. kindling material.
Tines, tin'dea, n. generic name of certain can
Tines, tin'foil, n. thin leaves of tm.
[diseases.
                                                                                                                                                                                                              Traction, trak'shun, s. act of drawing.

Trade, trad, s. business; commerce; industry; v. to
buy or sell. | device.
                                                                                                                                                                                                            ouy or sen.
Trade-mark, trâd'mârk, s. a patented distinguishing
Trade-wind, trâd'wind, s. a constant sea-wind.
Tradition, trâdish'un, s. unwritten memorials.
      Tinge, ting, v. to colour. [tuon, Tingle, ting'g, v. to impart or feel a thrilling sensa-
Tinker, tingk'er, v. a mender of tin and metal ware.
                                                                                                                                                                                                           Tradition, trā-disi', u. to viliy.
Tradice, tra-disi', u. to viliy.
Traffic, traf'ik, s. trade.
Tragedy, traf'è-di, s. a fatal occurrence; a tragic
Trail, trai, s. a track: u. to track. [drama.
Trail, train, v. to teach; s. a line of railway carnages
Train-oil, train'oil, s. oul from the fat of whales.
Trailt, trai, s. a characteristic; a feature.
    Tinker, tingk'er, s. a mender of tin and metal ware.
Tinkle, tingk'i, s. to make sharp sounds.
Tinsel, tin'sel, s. gaudy dress material.
Tiny, it'si, sel, very small.
Tiny, it'si, sel, very small.
Tip, tip, s. gratuity; a hint; a tap; s. to slant.
Tippet, tip'et, s. a small mantle.
Tipset, tip'staf, s. a constable.
Tipset, tip'si, sel, drunk.
Tirade, tir'sid, s. an outburst of abuse.
Tirade, tir'sid, s. alout of gold or silver; the body's
Tithe, tith, s. a tenth part; church tax.
Titlliate, tir'si-sit, s. to tickle.
Title, ti'l. s. appellation of rank; right; s. to name.
                                                                                                                                                                                                               Traitor, tra'tor, w. one who betrays.
                                                                                                                                                                                                               Tram, tram, s. tram-car,
                                                                                                                                                                                                               Trammel, tram'el, v. to hamper; to entangle,
                                                                                                                                                                                                            Trampe, trame, w. to namper; to entangle. Tramp, tramp, w. to go on foot; a. vagrant. Trample, tramp!, w. to trea upon. Trancel, trans, s. a wision
Trancel, trans, s. a wision
Transact, trans-akt', w. to perform.
Transact, trans-akt', w. to perform.
Transcrib., trans-krib', w. to copy.
Transcrib., trans-krib', w. to copy.
Transcrib., trans-krib', w. to copy.
Title, if'ti, n. n. to laugh restrant.

Titlet, tit'e, n. a jot.

Tosait, tost, n. bread scorched; a sentiment; n. to tosst bread; to druk to.

Toboggan, tō-bog'an, n. a sled for skiding down snow Tocain, tok'sun, n. an alarm-bell.

Tod, tod, n. a8 lb. of wool.

Today, tod's, n. an ancient Roman mantle.

Tolsome, tōl'sum, ad. wearisome.

Tolsome, tōl'sum, ad. wearisome.

Tokay, tō-kā', n. an Hungaria; wine.

of peing endured;

have fussage; n. to strike a bell.
      Title, il'tl. s. appellation of rank: right; s. to name.
Titter, tit'es, s. to laugh restrainedly.
                                                                                                                                                                                                            Transcribe, trans-krib, w. a cross saide.

Transfer, trans-fer', w. to convey.

Transfer, trans-fer', w. to convey.

Transfer, trans-fig-ur-a's-hun, w. a change of

Transfer, trans-fix', w. to pierce through.

Transfuse, trans-fix', w. to insti.

Transfuse, trans-fix', w. to insti.
                                                                                                                                                                                                              Transgressor, trans-gres'or, u one who errs: a sinner Transient, transbent, add. fleeting; passing; tem porary. [another language; to transfer.
                                                                                                                                                                                                            Translate, trans-lat', v. to interpret; to render mee Translate, trans-lat', v. to interpret; to render mee Translucent, trans-lac', ed., bellucid.
Transmarine, trans-ind-ren', ed., beyond the sea
Transmigration, trans-ind-ren'.
     Toll, tôl, s. tax for right of passage: v. to strike a bell
Tomahawk, tom'ā-hawk, s. an Indian hatchet.
                                                                                                                                                                                                                           one body or country to anothe.
                                                                                                                                                                                                               Transmit, trans-mit', v. to send.
     Tomb, toom, s. a grave.
Tomboy, tom'boi, s. a romping girl.
Tome, tôm, s. a large book.
                                                                                                                                                                                                               Transmontane, trans-mon'tan, adj. across a mountain
                                                                                                                                                                                                               Transmute, trans-mut', v. to change the substance of
                                                                                                                                                                                                            Transmute, trans-mut', v. to change the substance of Transparent, trans-pir', v. to happen; to exhale; to emit. Transpirent, trans-pir', v. to happen; to exhale; to emit. Transport, trans-port', v. to convey.

Transport, trans-port', v. to convey.

Transport, trans-port', v. to interchange.

Transport, trans-print', to print in wrong places.

Transurse, trans-ver', v. to pass through pores.

Transverse, trans-ver', ad, crosswise.
      Ton, tun, 2,240 lb., or 20 cwt.
     Tone, ton, s. sound ; quality of voice.
     Tongs, tongs, s. a fire implement.

Tonic, ton'ik, s. a strengthening mixture.
                 pl, tool, s. a workman's implement; one who is utilised by another.
      Tool,
    utilised by another.

Toothsome, tooth'sum, adi, palatable
Topas, tô pas, n. a pr-cious stone.
Topes, tô pas, n. a pr-cious stone.
Topes, tô pes, n. a drunkard.
Topic, top lis, n. a subject for converse or writing.
Topography, top-og'raf-i, n. description of places.
Topple, top'i, v. to lail.
Torch, torch, n. a light of combustible material held
Torment, tor'ment, n. anguish. [in the hand.
Torment, tor'ment, n. anguish. [in the hand.
Torpid, tor'pid, adi, sluggish; dull.
Torrent, tor'ent, n. a swift stream; a rapid cutpouring.
Torrid, tor'd, adi, hot and dry.
Torsion, tor'shun, n. the act of twisting.
Torso, tor's n. trunk of a statue.
                                                                                                                                                                                                               Trap, trap, v. to snare: n. a snaring apparatus
                                                                                                                                                                                                               Trapan, tra pan'. v. to ensnare
                                                                                                                                                                                                            Trapan, tra-pan, v. to enshare
Trap-door, trap'dor, w. a floor door.
Trash, trash, w. worthless stuf.
Travail, traväl, v. to labour in pain; n. childbirth
Travel, trav'el, w. journeying; v. to walk; to journey
Travesty, trav'el, w. burlesque; v. to burlesque.
Trawl, trawl, v. to fish by dragging a trawl.
Treachery, trech'er-l, w. inckery; betrayal.
Treachery, trech'er-l, w. lever moved by the foot in mechani-
                                                                                                                                                                                                                           cal operations.
                                                                                                                                                                                                              Treasure, trezh'ûr, n. accumulated wealth; valuables;
v. to hoard. [entertainment.]
    rumes, corso, s. trunk of a statue.
Tort, tort, s. a wrong.
Tortile, tort'il, ad/, twisted.
Tortunes, tort'us, ad/, winding; twister.
Torture, tor'tir, s. excessive pain.
Toea, tos, v. to throw.
Toea, total, s. the entire sum; ad/, complete; full.
Tote, tot, v. to carry.
Totter, toter, s. e. see!
        forso, tor'sô, st. trunk of a statue.
                                                                                                                                                                                                              v. to hoaid. [entertainment.]

Treat, trêt. v. to discourse upon; to entertain; s. free
Treble, treb'l, ad., threefold; s. highest part in music.
Trefoli, trêfoli, s. cloved; s. highest part in music.
Trefolis, trêfoli, s. cloved;
Tremble, tremb'l, v. to shake; to shiver.
Tremolo, trem'b-lò, s. a quivering note.
Trenchari, trench'an, s. d., severe; citting.
Trencher, trensh'er, s. wooden plate.
Trend trend, s. tendere.
                                                                                                                                                                                                                                                                                                                                                   [entertainment.
     Totter, tot'er, v. to reel.
Touching, tuch'ing, adf. affecting; pathetic.
Tough, tuf, adf. tenacious; hardy.
Tourist, troor'ist, v. one who maks a tour.
                                                                                                                                                                                                              Trend, trend, n. tendency.
Trental, trental, n. service of thry masses.
Trepan, trepan, t. to enslare; to perforate the skull; n. saw used in trepanning.
      Touse, tows, v. to pull
    Tout, tow, w. to push for custom.

Tow, to, w. to push for custom.

Town, to, w. to push for custom.

Town, to, w. to push for the direction of

Tower, towel, n. a cloth for uping the skin.

[Ingh.

Tower, tower, n. a high building; a fortress; v. to rise
                                                                                                                                                                                                               Trepid, trep'id, adj. quaking with alarm
Trespise, tres'pas, v. to infringe; to unlawfully ob-
trude on another man's property.
                                                                                                                                                                                                              Tress, tres n. a lock of hair.
             day; ăt; ârm; ēve; ělk; thêre; Ice; pin; machine; böld; pôt; stôrm; mûte; túb; bûrn.
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PEARS' CYCLOPAEDM.

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Trestle, tres'l, s. a support.
Tret, tret, s. allowance for waste.
Triable, tri'ā-bl, adj. that can be tried.
                                                                                                                                                                                                                                                                                           Truculent, truk'ū-lent, adj. savage; fierce. Trudge, ruj, v. to jog along. Trug, trug, n. gardener's basket.
Triable, tri's.bl., ad/. that can be tried.
Triad, triad, n. three together.
Trial, triad, n. an examination; a test; a hearing; an
Triangle, iftning if, n. a three-ingled figure.
Tribe, trib, n. a race; a family.
Tribuation, trib-bli'shun, n. distress; severe afflic-
Tribunal, tri-bli'nal, n. a court of justice. [ton.
Tribute, trib'iu, n. tax paid by a conquered country;
Trice, tris, n. an instant. [an acknowledgment.
Trick, trik, n. a dodge; an artifice.
Tricklet, trik'l, v. to drip.
Tricolour, tri'kul-er, n. a three-coloured flag; national
flag of France.
Tricyle, tri'vi-kl, n. a three-wheeled velocinetle.
                                                                                                                                                                                                                                                                                           Trus, trug, n. gardener's basket.
Trusme, troo'izm, n. an axiom; a self-evident truth.
Trumpet, trump'et, n. a brass musical wind instrument; v. to proclaim loadly.
Truncate, trump'et, v. to cut off.
Truncate, trump'et, v. to cut off.
Trunclen, trump'u, n. a club; a bludgeon.
Trundle, trund'l, v. to roll.
Truss, tru, n. a supporting bandage for customer.
                                                                                                                                                                                                                                                                                           Truss, trus, n. a supporting bandage for ruptures, bundle of hay; v. to pack close.

Trust, trust, n. credit; %ith; confidence.

Truth, trooth, n. fact; reality; fidelity.

Tryst, trist, n. a meeting-place.
 nig of France.
Tricycle, triviski, n. a three-wheeled velocipede.
Trident, triviski, n. a three-pronged sceptre.
Triennial, it-ent'sl. add, occurring every third year.
Trifie, trivi, n. anything of little value; n. to talk or act
Trifoliate, tri-fo'l-sl. add, three-leaved. [idly.
Trifurcate, tri-fur'kāt, add, three-branched.
                                                                                                                                                                                                                                                                                           Tube, tub, u. a hollow pipe; a tunnel-way. Tubular, tubular, tubular, tubular, tubular, tubular, adj. tubularm.
                                                                                                                                                                                                                                                                                            Tucker, tuk'er, n. a kind of bib.
Tuft-hunter, tuft'hunt-er, n one who eagerly courts
                                                                                                                                                                                                                                                                                           Tuition, ti-ish'un, n. tearning. [Ingher society, Tumbier, timb'ler, n. a druking-glass; an acrobat, Tumbrel, tum'brel, n. a two-wheeled cart; a ducking-stool; the kind of cart used for conveying French
Trifurcate, tri-fur kat, adj. three-branched.
Trigger, tug-r., n. spring of a gun.
Triggon, trigon, n. a three-cornered figure. [angles. Trigonometry, trig-o-nont'e-tri, n. science of tri-Trilateral, tri-fut'e-ral, adj. having three sides.
Trillteral, tri-fut'e-ral, adj having three letters.
Trill, tril, v. to make a quivering tone.
Trilocular, tri-fut'e-ral, adj three-celled.
Trim, trim, v. to put in order.
Trimmer, trin'e-r n. a time-sersing politician.
Trinal, tri'nal, adj. three-fold.
Trinntet, tringk'et, n. a small personal ornament.
Trinomal, tri-fut'dial, a.dj. three-jointed!
Trinomal, tri-fut'dial, a.dj. three-jointed!
Trinomal, tri-fut'dial, a.dj. three-jointed!
Trio, n. a musical composition for three performers.
                                                                                                                                                                                                                                                                                           stool; the sum or carr used for conveying Free Revolutionary prisoners to the guillotine. Turnid, tü'nid, an', swollen. Turnidt, tü'nid, an', swollen. Turnidts, tü'nid, an', a grave mound, a barrow, Turn, tun, n, a large cash, age gallons. Turn, tün, n a muse il stram. Turn, tün, n a muse il stram.
                                                                                                                                                                                                                                                                                           Tune, tim, n a muse distran.

Tune, tim, n, n a losse over-garment; a membrane.

Tunnel, tun'el, n, a passage-way cut through the

Turban, tun'el, n, a normal head-diess. [earth.

Turbid, tur'ban, n, an Oriental head-diess.

Turbide, tur'ban, n, a horizontal water-wheel.

Turbide, tur'ban, n, a lorizontal water-wheel.

Turbide, tur'ban, n, a large dish for holding soup.

Turgid, tur'ind, adj. blogated.

Turmodi, tur'ind, n uproar, trouble; disorder.

Turncat, tun'kôt, n, one who tuns from principles

previously held.

Turner, turi'er-l, n, the art of turping in a lathe.
 formers.

Trip, t-m, n, to take short quick steps; to stumble; to go wrong; n, a false step; an excursion.

Triperite, trip'ar-it, and; in three parts.

Tripe, trip, n, the part of the entrails of ruminating animals used as food.

Tripedal, tri'ped-al, ad/s, having three feet.

Triphthong, tri'/hong, n, union of three vowels in one syllable.

Tripht, ad/s threefold.

Tripht, trip', ad/s threefold.

Tripht, trip', ad/s as set of trablets or naminos in
                      formers.
                                                                                                                                                                                                                                                                                             Turnery, turn'er-1, n. the art of turning in a lathe, Turpitude, turpit-iid, n. baseness [articles turned. Turret, tur'et, n. a little tower.
                                                                                                                                                                                                                                                                                           Turriet, tur'et, n. a little tower.

Tusk, tuck, n. m. elephants protruching tooth.

Tutelage, tū'tel-āj, n. guardiauslup.

Tutor, tū'tor, n. an instructor.

Twaddle, two'dl, n. foolisimess.

Tweedle, two'dl, n. n. foolisimess.

Tweedle, two'dl, n. n. bandle gently; to wriggle.

Tweedles, two'll n. n. small pincers for pulling out

Twilight, twill, n. duck.

Twill, twill, n. nibed fabric; n. to weave in diagonal

Twin, twn, n. a pair, one of two born at a birth. [ribs.

Twinge, twnij, n. to sparkie.

Twirk, twingk'l, n. to sparkie.

Twirth, twell, n. to whirt

Twist, twist, n. to whirt

Twist, twist, n. to wind.

Twith, twit, n. to reproach.

Twitch, twich, n. to, tree,
    Triptych, tip'tik, n. a set of tablets or paintings in
    three sections.

Trisect, tri-sekt v. to divide into three.

Trisyllable, tri'sil-1 bl., n. word of three syllables.

Trite, trit, adv. stale., backneyed.
  Trite, trit, ad., State, Backneyet.
Triton, triton, n a marme demegod.
Triturate, trit ii-rit, n, to grand to fine powder
Triumph, tri'umf, n victory
Triume, tri'um, ad., three m one
Trivet, trivet, n, a thing supported on three feet
Trivial, triv'esi, ad., triling. Inhetoric, and logic.
Trivium, triv'eum, n, the liberal arts—grammar.
Trochee, tro'ke, n, a methical foot of an accented and
                      an unaccented syllable.
                                                                                                                                                                                                                                                                                             Twitch, twich, v. to Jerk.

Twitter, twit'er, v. to make a tremulous noise, as swal-
     Troll, trol, v. to sing.
    Trollop, trol'op, n. a slattern.
Trombose, trom-bon', n. a brass musical instrument
Tromometer, tro-mon' e-ter, n. mstraneut for measur-
                                                                                                                                                                                                                                                                                               Tympan, tun'pan, s. a printer's frame on which sheets
                                                                                                                                                                                                                                                                                                                are last for printing.
                                                                                                                                                                                                                                                                                               Tympanum, tan'pa-num, a. drum of the ear.
                                                                                                                                                                                                                                                                                           Tympanum, ton'pa-num, n. drum of the err.
Type, tip, n. printing letter, an emblem, a model.
Typewriter, tip'n-ten, n. a writing machine
Typology, tip-n'o-j, n. the doctrine of Scripture
Typology, tip-n'o-j, n. "spirit-apping."
Tyranny, tir'an-j, n. oppression: cruelty.
Tyre, tir, n. the outer b ind of a wheel.
Tyrian, tir'i-an, ad/, a deep purple colour.
Tyro, tir'n, n. a beginner
Tyrrhenian, ti-re'in-an, ad/. Etruscan.
  ing earthquake shocks.
Tropp, trop, n. a company of soldiers.
Trophy, tro'ft, n. a memoral of victory.
Trophe, troylks, n. the tonid zone.
Troth, truth, n. faith; falelity.
Troubsdour, troo'hi-door, n. a wandering poet of the
Trough, tro, n. a long hollow vessel. [Maddle Ages.
Troupe, troop, n. a company
Trousseau, troo-so', n. a bride's outfit.
Trover, tro'ver, n. an action to recover goods wrong-fully held.
                      ing earthquake shocks.
                      fully held.
    Trow, row, v. to presume; to suppose.
Trowel, trow el, w. tool for handlingmortar [1 lb Troy-weight, trot will, n. system in which is oz. equal Truant, troo'ant, n. a strayer from duty; one who stays from school.
                                                                                                                                                                                                                                                                                             Ubiquity, ū-bik'wit-i, n. omnipresence.
Udder, ud'er, n. mammary clands.
Ugly, uc'll, adr. disagrecable to the eye; prain.
Ullandes, wit'laud-er, n. Outlander (Dutch).
Ullandes, wit'laud-er, n. Outlander (Dutch).
     Truce troos, n. temporary peace.
Truck, truk, n. a hand vehicle, v. to barter.
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day; ăt; ârm; ēve; ēlk; thêre; īce; pīn; machine; böld; pöt; stôrm; mūte; tǔb: būra.

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PEARS' CYCLOPAEDIA.
                                                                                                                                                                                                          106
  Ulster, ul'ster, n. a kind of overcoat.
Ulterior, ul-të'ri-or, ad/, farther: lying beyfaid.
Ulterior, ul'timët, ad/, last; farthest.
Ultra, ul'tria, ad/, extreme.
Ultramontane, ul-tra-mon'tin, ad/, beyond the seas.
Ultramontane, ul-tra-mon'tin, ad/, beyond the moun-
Unv neous, ul-tro'n-ous, ad/, spontaneous.
Umbel, um'bel, n. head of a flower.
Umber, un'ther, ad/, a prown colour.
                                                                                                                                                                                                                       Upshot, up'shot, s., the end; the conclusion.
Upstart, up'start, s. a parrenu.
Uranography, Gran-og'ris-fi, s., descriptive astron-
Urban, urban, adj. relating to a city.
Urbane, urban, adj. polite; courteous.
Urchin, ur'chin, s., a child; an elf; a hedgehog.
Urgency, ur'jen-si, s. pressing necessity.
Urine, ur'in, s. fluid secreted by the kidneys.
Urn, ur, s., a wase.
   Umber, um ber, adj. a brown colour.
   Umbles, um'blz, n. a deer's entrails.
Umbrage, um'brāj, n. resentment; leafy shade.
 Umbrage, um'prä, n. resentment; leaty snauc.
Umpire, um'pir, n. one who decides a dispute.
Unaffected, un-af-ekted, adf. with sincenty.
Unanimity, ū-na-nim't-l, n. accord.
Unanswerable, un-an'ser-abl, adf. irrefutable.
Unawares, un'a-warz, adv. unexpectedly.
Unbend, un-ben-on'lk-al, ad. contrary to the
Uncanonical, un-kan-on'lk-al, ad. contrary to the
Uncaremonious, un-ser-e-mo'ni-us, adf. without
                 formality.
    Unchurch, un-church', v. to deprive of church rights,
   Uncial, un'shal, w. the large written characters in ancient MSS.
   Uncle, ung'kl, w. a father's or mother's brother.
Uncongenial, un-kon-je'ni-al, ad/, not cogenial.
Unconscionable, un-kon'shun-abl, ad/, unjust; un-
  neasonable.

Uncouth, un-kooth', ad/. awkward; rude; unmannerly.
Unction, ungk'shun, n. act of anounting; a tervour.
Under, un'der, prop. beneath,
Underbrauh, un'der-bruch, n. small shrubs and trees.
Undergo, un-der, go', n. to endure; to pass through.
Undergraduate, un-der, grad'u-ât, n. a student who has not taken his degree.
Underhand, un'der-land, ad/. secret.
Underhand, un'der-land, ad/. secret.
Underling, un'der-lang, n. an under agent.
                       easonable.
   Underling, un'der-ling, n, an under agent.
Undermine, un-der-min', v. to dig under: to secretly
   injure. Underpin, v. to prop up; to support Underpind, under-pin', v. to prop up; to support Undershot, under-shot, and/ moved by water passing beneath a water-wheel.
   Understand, un-der-stand', v. to comprehend.
Understrapper, un'der-strap-er, n. one performing inferior duties.
   Undertaker, un-der-tāk'er, n. one who manages
Underwrite, un-der-rīt', v. to maure. [funerals.
Undulate, un'-dū-lāt, v. to move in wave-like manner;
                  to cause vibration.
    Unequivocal, un-e-kwiv'o-kal, adj. without ambiguity.
  Unguent, ung gwent, n. an ontment.
Unballowed, un-hal'od, adr. unholy.
Uniforous, u-ni-florus, adr. one-tlowered.
Uniforn, u'ni-form, n. regimental dress; livery; adr.
                 undeviating.
                                                                                                                                                                                  fment,
   Union, un'yun, n. concord; unity; harmony; agree-
Uniparous, u-nip'ar-us, ad/. producing one at a birth.
                                                                                                                                                                                                                       v. to indent.

Vane, vin, n. a weathercock; a flag or banner.

Vanguard, van'gård, n. the front line of an army.

Vanity, van'iti, n. empty pride; conceit.

Vanquish, vang'kwish, v. to subdue.

Vantage, van'iti, n. advantage; opportunity.

Vapid, vap'id, ad/: insipid, [heated fluid; v. to beast,
Vapour, viron, n. aeriforun matter arislum, from a
  Uniparous, u-nip'ar-us, ad/, producing one at a birth, Unique, ū-niek', ad/, alone in kind; without equal. Unison, ū'nis-on, n. concord. Unit, ū'nit, n. a single thing; the least whole number, Unity, ū'ni-ti, n. concord: agreement in aim. Unityley, ū'ni-ti, n. concord: agreement in aim. Unityley, ū'ni-ti, n. a shell with only a single valve. Univare, ū'ni-vers, n. the whole system of created above, u'ni-vers, n. the whole system of created above.
                                                                                                                                                                                                                       vapiu, vapiu, a.g. inspiu, incatest mais, v. to teast, vapour, va'por, v. aeriform matter arising from a Variation, vā-ri-ā'shun, v. a varying; change; divervaricos, va'ri-ko's, ad', enlarged; dilated. [sity. Variety, va-ri'ēt-i, v. difference; change; a class.
                                                                                                                                                                          Sounds
   Univocal, univocal, unison of Unixempt, un-kenpt', adv. un.combed ; rough; unitdy. Unman, un-man, v. to dishearten; to deprive of manly qualities.
manly qualities.

Unnerve, un-nerv', v. to dejrive of nerve; to weaken.

Unparliamentary, un-par-li-ment'ar-l, adj. opposed to
the usages of debate.

Unprincipled, un-pun'si-pld, adj. devoid of arinciple.

Unravel, un-rav'el, v. to solve; to disentang'e.

Upas, i'pas, n. a tree of poisonous sap.

Upbraid, up-braid', v. to reprove; to reproach.

Upbraid, up-braid', v. to reprove; to reproach.

Upbraid, up-hold', v. to reprove; to reproach.

Upblill, up-hold', v. to maintain; to hold up.

Upbloidserer, up-hol'ster-or, v. one who supplies

Upland, up'land, v. high ground.

[furniture.

Uprig these, up'rit-nes, v. integrity; erectness.

Uproar, up'ror, v. disorder; clamour.
                                                                                                                                                                                                                        Variorum, va-ri-o'rum, n. an edition of a work with notes from various previous editions
                                                                                                                                                                                                                       Varlet, va'ric, n. a scoundrel; a footman.
Varnish, va'riish. n. glossy resmous liquid.
Vary, va'ri, v. to alter; to diversify.
Vascular, vas'kū-lar, adj. rolating to vessels of animal
                                                                                                                                                                                                                                     or vegetable bodies.
                                                                                                                                                                                                                         Vase, vaz, n. an ornamental vessel of earthenware or
                                                                                                                                                                                                                         Vassal, vas'al, n. a slave.
                                                                                                                                                                                                                       Vassal, vas'al, n. a slave. [Im
Vast, vast, ad; stupendous; immense.
Vat, vat, n. a lage vessel fog holding liquor.
Vaticinate, va-tis'in-åt, v. to foretell.
Vauderille, v6d'vil, n. a song; an entertainment.
Vault, vawit, n. a tomb; v. to leap.
Vault, vawnt, n. a boast; v. to boast.
Veal, vêl, n. fiesh of a calf.
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Ura, urn, n. a vase,
Uraform, ur'si-form, ad/. bear-like,
Urage, u'si, n. custom; treatment. [to utilise,
Use, us, n. the act of using; employment; utility; v. Use, us, m, the act of using t employment; utility; v. Usher, usher, m, doorkeeper; under-teacher. Usual, ü'zhū-al, adf. customary.
Usual, ü'zhū-al, adf. customary.
Usurp, ū-zhū-d, w. to seize and hold lilegally.
Usury, ū'zhū-ri, m. excessive interest for money lent.
Utenail, ū-ter-sil, m. e vessel; an implement.
Utenile, ū'ter-in, adf. born of the same mother by a dı terent father; relating to the womb.
Utility, ū-til'it-l, m. usefulness; profit.
Utmost, u'mōst, adf. extreme.
Utricular, ū-trik'ū-lar, adf. containing little bladders or
Utter, u'ter, v. to speak; adf. extreme; farthest. [cels. Utter, ut'er, v. to speak; ad/. extreme; farthest. [cells. Uveoua, û'vê-us, ad/. grape-like. Uxorious, ugz-ò'rī-us, ad/. submissively devoted to s Vacant, vä'kant, adj. empty. Vacant, va'kant, adj. empty.
Vacillate, va'sl-lât, v. to waver.
Vacuum, vak'i-lum, w. an empty space.
Vagabond, vag'a-bond, m. a vagrant; an idle person.
Vagary, va'ga'ri, m. a freak; a whun,
Vagrant, va'grant, m. an idle wanderer.
Vague, va'g adj. indefinite.
Vain, van, adj. unreal; worthless; conceited.
Valance, va'lans, m. bed drapery.
Vale, vail, m. a valley.
Vale, vail, m. a valley.
Valediteror, vall-dikt'b-ri, m. a farewell address; adj. [bidding farewell. Vale, val, n. a valley.

Valedictory, val-d-ilkt'ö-f, n. a farewell address; adj.

Valet, val'ā, n. personal servant to a gentleman.

Valetudinariaa. val-d-tud-ila'(flan, n. a person of

Valiant, val't-ant, adj. brave; heroic. [infirm health

Valid, val'd, adj. legal; regular; sound.

Valise, val-ds', n. travelling bag. Valley, val'i, n. a plain lying between hills. Vallum, val'um, n. a rampart Valour, val'or, n. courage; bravery. Valuable, val'ū-abl, ad/, possessing value. Valve, valv, n. cover to an aperture. Vamp, vamp, v. to mend; to improvise an accompaniment; n. upper leather of shoe. [waggon. Van, van, n. the front of an army or fleet; n. a covered Vandyke, van-dik', n. an indented border or collar; v. to indent.

[metal.

PEARS' CYCLOPAEDIÀ.

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Vedette, ve-det', n. a mounted sentry.
Veer, ver, v. to turn.
Vegetatien, vej-ëtâshun, n. plant life.
Vehemence, ve-lië mens, n. impetuosity; violence.
Vehicle, ve kl., n. a carriage; any kind of conveyance.
Veil, val, n. covering for the face; anything that con-
 ceals an object; a disguise.
Vein, van, n. a blood-vessel; a streak; a current.
Veidt, velt, n. a South African grassy plain.
Veilicate, vel'ik-āt, v. to twich.
Velocity, vel-os'it-i. n. speed; swiftness.
Venal, ve'nal, adj. mercenary; sordid.
 Vend, vend, v. to sell.
Vende, vende, v. to sen.
Vendue, vendid, v. a public auction.
Veneer, vener, v. a thin surface of superior wood over an inferior; surface show; v. to overlay.
Venerable, ven'er-abl, adv. worthy of reverence.
 Venery, ven'er-i, n. hunting; sexual commerce.
Vengeance, ven'jens, n. revenge; retribution.
Venial, ve'ni-al, adj. pardonable.
 Venom, ven'om, n. poison.
Venous, ve'ous, ad/, pertaining to veins.
 Vent, vent, *. an air opening; escape.
Ventilation, ven-til-i'shun, *. state of being ventilated.
Ventral, ven'tral, ad/, pertanning to the belly. [body. Ventricle, vent'rikl, n. a small opening in an animal Ventrilouism, ven-tril'o-kwizm, n. the art of uttering sounds as if they came from other places or persons.
sounds as if they came from other piaces or persons. Venture, vent'or, n an enterprise, n to hazard. Venue, vent'or, n hace where an action can be brought. Veracity, ver-as'it-i, n, truth: sincerity. Verandah, ver-an'dd, n. an open portico. Verbal, ver'hal, adi, by word of mount; oral. Verbalm, ver-ba'tini, adiv. word for word. Verbalm, ver'ba'tini, adiv. word for word. Verbala, adi, profusion of words. Verdant, ver'dant, ad' green; flourishing Verdact, ver'dish, n. decision.
  Verdict, ver'dikt, n. decision.
 Verger, verifer, v. a mace-bearer; a cathedral beadle,
Verify, verifi, v. to confirm. (truth; probability,
Verisimilitude, ver-f-sim-il it ud, v. appearance of
 Verjuice, ver'joos, n. Juice of green fruit.
Vermicular, ver-unk'n-lar, adr. worm-like.
 Vermilion, ver-mil'yun, n. a bright red colour
Vermin, ver'min, n noxious insects and anunais
Vernacular, ver-nak'ū-lar, anj. native.
 Vernal, vernal, ad/ relating to spring.
Versant, ver sant, ad/ familiar.
 Versaut, vers'a:til, ad/, turning easily; of varied Verse, vers, n. poetry; a stanza. [capacity. Version, versh'in, n. translation; edition; account.
 version, versi in, n. transation; edition; account 
Vertebra, vert'e-bra, n. the joint of the backbone. 
Vertex, verteks, n. the siminut. 
Vertical, vert'ik-al, adr. perpendicul ir.
  Vertigo, ver ti-go, n. dizzme-s
 Vertigo, ver'il-go, n. dizznies-
Verve, ver', n cnergy; vital power.
Vesacile, ve-s'int-â, n. insantv.
Vesicle, ves'ski, n. small bladder, blister, or cell.
Vespera, ves'pera, n. evening service.
Vessel, ves'el, n a ship; a utensil.
Vest, vest, n a waistoat: r. to clothe; to place in
Vestibule, vest'ib-âl, n. entrance hall, corndor, or
Vestibule, vest'ib-âl, n. entrance
  Vestige, vest'ij, n. a trace. Iporch.
Vestry, ves'tri, n a room in which church vestments
are kept and church officials meet; the assembly
                                                                                                                                                                  (porch.
               of church officials.
  Vesuvian, ves-u'vi-an. n. a kind of match. [aged person. 
Veteran, vct'er-an, n. one who has served long; an 
Veterinary, vct'er-in-ar.i. adv. perating to the coring 
of discuss of animals; n. a practitioner of this art. 
Veto, vc'to, n. prohibition; power of rejection.
  Vex, vets, v. to harass; to annoy,
Viable, viabl, ard, capable of existing
Viable, viabl, ard, capable of existing
viaduct, via-dukt, n. a bridge-like structure crossing
a valley and uniting with roads at each end,
   Vial, vi'al, n. a small bottle.
 Vial, vial, n. a small bottle.

Viands, viends, n. food; victuals.

Vibrate, vibrât, n. to decillate.

Vicar, vik'ar, n. substitute; deputy; a parish clergy-
Vice, vis, n. wickedness; a blemish; a screw-press.

Vice-ponsul, vis-kon'sul, n. one acting for a Cossal.

Vice-ponsul, vis-kon'sul, n. one acting for a Cossal.

Viceroy, vis'roi, n. a king's deputy.
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Vicinage vis'in-āj, s. neighbourhood.
Vicinage, visi'us. ast. wicket; base; isosoral.
Vicinage, visit'ius. ast. s. change; trial.
Vicitin, vik'tu, s. one who is sacrificed or deluded.
Victor, vik'tu, s. conqueror.
Victorine, vik-to-rin', s. a kind of tippet.
    Victuals, vit'lz, n. food.
  Vidimus, vid'i-mus, s. inspection, as of accounts. Viduous, vid'ú-us, adj. widowed.
    Vie, vi, v. to contend
  View, vu. v. to behold : st. the prospect.
 Vigesimal, vi-jes im-al, adj. twentieth.
Vigil, vij'il, s. a watching in the night.
  Vigilant, vij'il-ant, adj. watchful; alert.
 Vignette, vin-et', s. a small engraving or sketch without border.
without border.

Vigour, vijor, n. strength; energy; force.

Viking, viking, n. an old Scandinavian pirate leader.

Vile, vij, ap. base; mean; wicked.

Villa, vii'A, n. suburban residence.

Village, vii'Aj, n. a smill collection of houses.

Villain, vii'An, n. a scoundre!

Villain, vii'An, n. a scoundre!
 Villenage, vil'en-a, n a kind of servitude that existed
in the Middle Ages
 In the Middle Ages
Vin, vin, w. vigour; energy; "go."
Vincible, vin's-bl. ad/. capable of being overcome.
Vindicate, vin'd-kât, v. to defend; to maintain.
Vindicate, vin'd-kât, v. to defend; to maintain.
Vindictive, vin'd-kât, v. to defend; to maintain.
Vindictive, vin'd-kît, v. dd., desiring zevenge.
Vineyard, vin'yard, w. field where grapes are grown.
Viola, v. io'la, v. a tenor violin.
Violance, v'foliens, v. force.
  Violence, víő-kms, n. force.
Violin, vío-im, n. a fiddle.
Violoncello, vé-o-lon-chel'ő, n. a double-bass viol.
 Viperous, viper-us, ady malignant; venomous. Virgenous, viper-us, ady malignant; venomous. Virgen, verium, n. a chaste maiden. (woman, Virginal, verium, n. a chaste maiden); n. an old keyed in Virginal, verium, n. adpmaadenly; n. an old keyed in verium v
  Virgule, ver gul, n. a small rod; a comma. (strument. Viridity, vir. d'it-i, n greenness.
 Viridity, vir. d'it.4, n greenness. Virile, vir.7, ad.5, trong; manly. [of such thing Virile, vir.7], ad.5, trong; manly. [of such thing Virtua, ver'too, n objects of art and antiquity; a love Virtua, vir.7 in effect. Virtue, ver'tti.2, ad.; in effect. Virtue, ver'tti.3, n. moral worth; purity; dity Virtuoso, ver-tu.; a skilled musician, painter, etc. Virulent, vir.4 in. the dy malignant. Virulent, vir.4 in. the face: the countenance. Visage, vir.4 in. the face: the countenance. Visage, vir.6 or.7 in. the bowers.
    Viscid, vis'id, adr. sticky.
  Visible, vizibl, adj. perceptible,
Vision, vizh'un, n, the seuse of seeing; anything
                      seen ; a dream.
    Visit, viz'it, 7 to attend.
    Visor, vi'zor, n. the mask portion of a helmet.
    Vista, vis'th, n a view through an avenue Visual, vish'ù-al, pertaining to sight.
Vital, vi'tal, adv. relating to life; essential
  Vitiate, vish'-at, v. to corrupt; to annut. Vitracus, vitr'e-us, adj. glass-like. Vituperate, vi-tu'per-at, v. to abuse. Vivacity, vi-vas'n-l, w. anumation. Vivid, viv'd, adj. bright; striking. Vivinarous, 1-vivi/arus, adv. producing v
    Virinarous, Vividarous, origini; striking.
Viviparous, Vivip'arous, adv. producing young alive.
Vivinection, vivi-sek'shun, m. dissection of lave ani-
Vixen, viks'en, m. a female fox; a termagant. [mals.
Vixend, vir'ard, m. a mask.
    Vocal, vô'kal, adv. having, or uttered by, a voice.
Vocalist, vô'kal-ist, n. a singer.
Vocation, vô-kā'shun, n. occupation; trade.
     Voe, vo, n a creek,
     Vogue, vog. n tashion; common use.
  Vogue, vög, n fashion; common use.

Voice, vos, n utered sound.

Void, void, ad, empty; n, vacancy.

Volant, ad', empty; n, vacancy.

Volant, ad', empty; n, vacancy.

Volatile, vol'à-til, ad', flighty; evaporating quickly.

Volcano, vol-kin'un, n, a burning mountain.

Vollton, vol-lish'un, n, will power.

Vollton, vol'ish'un, n, will power.

Voluble, vol'ū-bl, ad', fluent of speech.

Volume, vol'ūm, n, dimension; quantity; a book.
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Voluntary, vol'un-tă-ri, ady. of free choice. Volunteer, vol-un-têr', v. to offer; n. one who serves voluntarily. Voluptuous, vo-lup'tu-us, adj. sensual. Vomit, vom'it, v. to throw up.

Voracity, vo-ras/it-1, n. greediness.
Vortext, vorteks, n. whirlpool.
Yota-ry, vorteks, n. whirlpool.
Yota-ry, vortex, n. one devoted to a pursua or Vote, vot, n. the expression of choice; suffrage: n. to Votive, votiv, adj. given by vow. iselect by voting.

Vocive, with, ad, given by row. [select by voting. Youch, woch, w to attest.
Youchsafe, vowch, w to attest.
Youchsafe, vowchesif, w to design; to grant.
Yow, vow. w. a sacred promise to perform a certain act; w to make such a promise.
Yowel, vow'el, m. a simple open sound; one of the five letters—a, c, i, o, u.
Yoyage, vol'al, m. a journey by sea.
Youcanise, vul'kan-iz, w to combine with sulphur.
Yulgar, vul'gar, adj. low; coarse; common.
Yulnerable, vul'ran-iz, low; coarse; common.
Yulnerable, vul'ran-iz, do, concerning the fox

w

Wadding, wod'ing, n. soft cotton material used for Waddle, wod'l, v. to walk like a duck. [stuffing. Wane, wad, v. to walk in water.]
Wafer, wa'fer, n. a thm cake; a little round pasty

substance formerly used in sticking letters.

substance formerly used in sucking letters.

Waft, worf, v. to float.

Wage, wāj, n. pay for service; v. to carry on.

Wager, wa'jer, n. a bet.

Wagger, wag'er, n. sportiveness.

(Waggon, wag'on, n. a four-wheeled vehicle for conveying goods.

(ownerless.

Waif, waf, y. a homeless wanderer; anything found

Wail, w. a cry of lament v. v. to lament.

Wain. wan, n. a waggon.

Wall, wil, s. a cry of lament, s. to lament.
Wain, win, s. a waggon.
Wainsoot, wăn'skot, s., a wooden wall lining.
Waist, wist, s. the part of the body immediately
Wait, wist, s. to tarry.
Waiter, swi'er, s. an attendant.
Waive, wi'v, s. to relinquish.
Waive, wi'v, s. to relinquish.
Waike, wik, s. a warch; track of a vessel; v. to
Wale, wil, s. a streak coused by a stripe; a ridge in
Walk, waw, s. to proceed by footsteps; s. gast. [cloth.
Walk-eye, way'ot, s. a small hag; a knepsack.
Wall-eye, wow'ot, s. a small hag; a knepsack.
Wall-eye, wow'ot, s. a small hag; a knepsack.

Wallop, wol'op, v. to flog. Wallow, wol'o, v. to roll about, as in mire; to live in Wampum, wom'pum, n. Indian bead-money. [vice. Wan, won, adj. pale. Wand, wond, n. a slender stick; a rod of authority.

Wander, won'der, v. to rove.
Wane, win, v. to decrease; n. decline.
Wanton, won'tun, ad. loose; frolicsome; licentious
Warble, wawr'bl, v. to sing with trills.

Warble, wawr'bl, v. to sing with trills.

Ward, waw'td, n. a person under guardianship; custody' v. to guard.

Wardrobe, wawrd'rob, n. a place for storing clothes Wardroom, wawrd'room, n. officer's mest-room on Ware, wilr, n. merchandise; goods

Warfare, wawr'far, n. hostillities; war.

Warlly, wa'ril-l, adv. coutiously.

Warm, wawrm, ad/: moderately hot

Warn, wawrn, v. to caurion.

Warn, wawrn, v. to caution.

Warp, wawrp, n. the lengthwise yarn in a weaver's loom; v. to twist; to pervert. [to justify.

Value of the state of the state

Wheeze, nwez, v. to breathe heavily.
Whelip, hwelin, v. to overwhelm.
Whelip, hwelip, n. a puppy.
Whereas, hwar-ag, adv. considering; when in fact.
Wherry, hwer't, n. a shallow boat.
Whet, hwet, v. to sharpen.
Whether, hwell'er, pron. which of the two.
Whether, hwell'er, pron. which of the two.
Whether, have a thin part of mill Whey, hwey, n. thin part of milk. Whiff, hwi, n. a puff of air or smoke.

Water, waw'ter, w. to pour water; to irrigate.
Water-brash, waw'ter-brash, n. a mouth affection.
Water-cement, waw'ter-se-ment, m. hydraulic cement.
Water-colour, waw'ter-kul'ur, n. a diluted colour.
Waterman, waw'ter-mel-un, n. a boatman.
Watermelon, waw'ter-mel-un, n. a luscious fruit. Waterproof, waw'ter-proof, n. an article rendered impervious to water. gather. Watershed, waw'ter-shed, n. a district where waters Waterspout, waw'ter-spowt, n. a whirling column of water spouting into the air.

Wattle, wol't, a twig: a burdle.

Wattle, wol't, a twig: a burdle.

Wave, wav, m. a moving awell of water; an undulation; v. to make undulatory movements.

Wave-offering, wav'offering, m. a Jewish offering made by waving of hands.

Waver, wa-ver, v. to hesitate.

Waxen, wak-ver, v. to hesitate.

Waxpill, wa'bil, m. a list of passengers and goods in a public conveyance.

Waysiare, wa'far-er, m. a traveller.

Waylary, wa'far-er, n. a traveller.

Waylary, wa'far-er, n. a from ambush.

Wealt, wa'fare.

[child.

Wealth, welfa, m. nehes.

Wean, wa'n, v. to altenate: to discontinue suckling a Weapon, wep'un, m. a fighting unplement. water spouting into the air. Weapon, wep'un, x a fighting implement.

Wear, war, v, to use; to have on the person, as

Weary, we'r, ad, tired.

Weather, weth'er, n, the state of the atmosphere. Weathergage, weth'er-kok, n. a vane.

Weathergage, weth'er-gaj, n. the position of a ship to the windward of another. Weatherglass, weth'er-glas, n. a barometer. Weave, wev, v. to interlace threads, as in a loon Weazen, wev. v. to interace threats, as in a loom.

Weazen, wet'n, adi, dried up; thin forane.

Webbed, webd, adi, having toes united by a memWedge, wel, n. a cleaving tool; a piece of wood or
metal used for holding anything in place.

Wedlock, wedflock, n. marriage. Wedlock, wod'iok, n. marrage. Wee, wê, n. adj. very small. Weed, wêd, n. a useless plant. Weed, wêd, n. a. useless plant. Weedy, we'd, adj. full of weeds. Week, wêk, n. seven days. Weep, wêk, p. v. to shed tears Weef, wedt, n. the woof of cloth. Weicht we we'r n. stative; heaving Weight, weit, n. the wood of cools.
Weight, weit, n. gravity; heaviness; importance.
Weird, werd, adj. wild; eerie; unearthly.
Welcome, welkum, adj. agrecable; n. a warm recep-Welcome, wel'kum, ad/, agrecause; n, a warm recep-Weld, weld, v, to unite.
Welfare, wel'far, n, good fortune; happiness.
Well-being, wel-being, n, welfare.
Well-bring, wel-being, n, swelfare.
Well-bring, wel-bring, n, source.
Welt, welt, n, edging round a shoe; v, to sew on a
Welter, welt, n, edging round a shoe; v, to sew on a
Welter welt n wallow. Welter, welt'er, v. to wallow. Wench, wensh, w. a girl.

Wend, wend, v. to go: to betake.

Wet, wet, w. moisture: rain; v. to moisten.

Wet, wet, w. moisture: rain; v. to moisten.

Whack, hwak, v. to strike.

Whalebone, hwall'bon, n. elastic substance obtained from the jaws of whales.

Wharf, hwawrf, n. quay to load or unload ships upon Wheaten, hwe'ten, ad, made of wheat. [or from. Wheedle, hwe'dl, v. to coax.

Wheel, hwe'dl, v. a circular frame turning on an axis.

Wheelbarrow, hwel'bar-o, n. a hand vehicle.

Whoelwright, hwe'rit, n. a wheel-maker.

Wheeze, hwez, v. to breathe heavily. Wench, wensh, n. a girl.

dāy; āt; ārm; ēve; ēlk; thêre; īce; pīn; machine; bōld; pŏt; stôrm; mūte; tǔb; būrn.

PEARS' CYCLOPAEDIA.

Whiffle, hwift, v. to scatter.
Whiffletree, hwift-tre, s. part of a waggon.
Whim, hwim, s. a caprice; a freak.
Whimphy, hwim'per, v. to whine.
Whinph, hwim, s. a caprice; a freak.
Whimphy, hwim'per, v. to whine.
Whip, hwip, s. a lash with a handle; v. to lash.
Whir, hwer, s. a buzzing sound.
Whirt, hwerl, v. to revolve quickly.
Whirlwind, hwerl'wind, s. a rotating wind.
Whist, bwisk, s. a kind of brush; v. to beat, as an egg.
Whisper, hwisp'er, v. to speak low down.
Whitewash, hwift'er, s. to cut with linne-water.
Whittle, hwift, v. to cut with a knife; s. a kind of Wils, hwiz, s. a hissing sound.
Wholesabe, hol'sii, s.d./. buying in large quantities to Wholesabe, hol'sii, s.d./.
Whole, s.d. (s. to a strumper.
Whor, hor, s. a strumper.
Whole, whie, s. a trumper.
Whicket, whie e. s. a small gate.
Wicket, whie e. s. a small gate.
Widen, wid'en, v. to broaden.
Widen, wid'en, v. to broaden.
Widen, wid, s. a readth.
Widel, wid, s. to the readth.
Widel, wid, s. to the readth.
Wigle, wig'l, v. to squirm.
Wiglt, wif, s. a erroson.
Wigwam, wig'wam, s. an Indun hut.
Wid, wid, s. s. to gaue; to allure.
Willing ness, wi'lige-ss. s. readness
Win, win, v. to gaue; to allure.
Wince, win, s. v. to finces. s. readness
Win, win, v. to gaue; to allure. Willingness, wil'ing-nes, n. readmess
Win, win, v. to gam; to allure.
Wince, wins, v. to funch.
Winch, winsh, n. a crank; a hoisting apparatus. Wind, wind, n. a current of air.
Windage, wind'aj, n. the difference between a gun's
diameter and that of a ball. diameter and that or a hail.

Wind-bound, adv. detaned by contrary winds.

Windfall, wind fawl, n. an unexpected boon.

Wind-gall, wind gawl, n. tuniour on a horse's fetlock.

Winding-sheet, wind'ing-sheet, v. shroud. [ship.

Windlass, wind'iass, n. weight-raising machine on a

Window-sash, win'do-sash, n. frame in which glass is

Window-sash, win'do-sash, n. frame in which glass is

Salviadeire and the racker. Windpipe, wind plp, n. the trachea Windward, wind word, adv. towards the wind. Wine-babber, win'bib-er, n. a great wine-drunker.
Wine, wing, n. the limb of a bird used in flying; v. to
Winning, win'ng, adv. a trractive.
Winnow, win'o, adv. a trractive.
Winnow, win'o, v. to sift.
Wire, wir, n. a thread of metal. Wire-puller, wir pooler, n. an intriguer; one who Wire-puller, wir pooler, n. an intriguer; one who Wiry, wir, adj. tough.

Wise, wiz, adj. discreet; just.

Wiseacre, wiz åk-er, n. one who assumes wisdom.

Wish, wish, n. desire.

Wife mine n. hundle of straw or hav. Wish, wish, n. desire.
Wish, wish, n. desire.
Wish, wisp, n. bundle of straw or hay.
Wist'ni, wist'ni, ad. attentive.
Wit, wit, n. ready sense.
Witch, witch, n. a woman of supposed magical power.
Witchery, wich'erl, n. enchantment.
Witchery, wich'erl, n. enchantment.
Withdrawai, withdrawal, n. a moving or taking back.
Withe, with, n. a willow twig.
Withers, with'er, v. to dry up.
Withers, with'er, v. to dry up.
Withstand, with-stand', v. to oppose.
Withstand, with-stand', v. to oppose.
Withess, wi'nes, n. ogs who bearstestimony.
Witessapper, wi'nsnp-cr, n. one who affects wit.
Wizard, wi'rard, n. a sorcerer; a conjurer.
Woe, wo, n. grief; sachess.
Wonsanhood, woom'an-hood, n. the condition of being Wonder, wun'der, n. surprise.

Wont, wont, adj. accustomed.
Wonted wonted, adj. customed.
Wonted wonted, adj. customary.
Wog, woo, v. to make love to.
Woodcut, wood'kut, n. a wood engraving.
V'ooden, wood'kut, n. a wood engraving.
V'ooden, wood'kut, n. a wood engraving.
Wood, wood'kut, n. a wood engraving.
Wood, wood'kut, n. a wood engraving.
Wood, wood'kut, n. a lover.
Woof, wood'kut, n. a lover.
Woof, wood'kut, n. skin with wool on.
Woollen, wool'en, adj. made of wool.
Wording, wool'en, adj. made of wool.
Wording, werd'in, adj. verbose.
Word, werd'in, adj. verbose.
Word, werd'in, adj. verbose.
Word, werd'in, adj. verbose.
Word, werd'in, adj. pertaining to the world, [screw.
Workman, werl man, n. an artisan; a labourer.
Wordly, werld'in, adj. pertaining to the world, [screw.
Word, werl, n. tonble; vexation; v. to bite savagely.
Wornhip, wer'ship, n. devotion; adoration.
Wort, wert, n. a plant.
Worst, werst, adj. the most wicked.
Worst, werst, adj. the most wicked.
Worst, werst, adj. the most wicked.
Worst, warst, adj. the onest wicked.
Worst, warst, adj. to quarrel; to dispute.
Wrangler, rang gle, v. to quarrel; to dispute.
Wrangler, rang gler, n. one who wrangles; one who achieves a first mathematical position at CamWranp, rap, v. to fold.
Wrath, rank, n. anger; fury.
Wreath, rach, n. a destroyed ship; v. to ruin.
Wreath, rach, n. a destroyed ship; v. to ruin.
Wreath, rech, v. to wrest.
Wrest, rest, v. to force from.
Wreste, rest, v. to force from. Wrench, rench, v. to wrest.
Wrest, rest, v. to force from.
Wrestle, res'l, v. to contend with; to try to throw
Wretch, rech, v. a miserable person. [down.*
Wriggle, rig'l, v. to twist.
Wring, ring'l, v. to twist; to strain.
Wrinkle, ringk'l, v. a foraste.
Wrist, rist, v. to inscribe.
Write, rit, v. to inscribe.
Write, rit, v. to inscribe. Writhe, rith, v. to twist; to be distorted with pain. Wrong, rong, n injustice; injury. Wroth, rûth, v. angry Wry, ri, adj. twisted.

x

Xangti, zang'ti, n. the Chinese name for Supreme Kanthine, zan'thin, n. yellow dyeing matter. [Being. Kanthous, zan'thin, n. yellow dyeing matter. [Being. Kanthous, zan'thin, adr, yellow. Kebec, ze'bek, n. a small vessel. Kemun, ze'n-lum, n. present to a distinguished per Kenodochy, ze'n-d's-l, n. hospitality. [Bon. Kerasla, ze'r-a's-la, n. a hair disease. Kerophagy, ze'n-d's-lj, n. habit of living on dry food. Kiphoid, zif'oid, adj', sword-fish shaped. Xylocarp, zil okarp, n. a woody fruit. Xylography, zi-log'r-ai-l, n. art of wood engraving. Xylophagous, zi-lof'-à-gus, adj. feeding on wood. Xylophone, zi'lof-fon, n. a wooden musical instrument. Kyst, zist, n. an athletic court. [bones. Xystr., zist'er, n. a suppcal instrument for scrapiag Xangti, zang'ti, n. the Chinese name for Supreme Xystar, zist'er, n. a surgical instrument for scraping

Yacca, yak'a, w. a West Indian evergreen. Yacht, yot, n. a pleasure vessel. Yam, yam, n. a tropical root. Yam, yam, n. a tropical root.
Yammer, yam'er, v. to lament.
Yankee, yam'er, v. to lament.
Yankee, yang'kê, an American.
Yard, ya'd, v. a measure of 3 feet; an enclosed space; a ship's beam,
Yardstick, ya'rd'sta, n. a stick 3 feet long.
Yars, yam, n. spun wool, cotton, fian, or silk.
Yarrow, ya'rô, n. an herb.
Yawn, yawl, n. a ship's boat.
Yawn, swn, n. act of gaping: v. to gape.
Yean, yên, v. to bring forth young.

PEARS' CYCLOPAEDIA.

Yearling, yēr'ling, n. an animal a year old.
Yearn, yen, v. to desire eagerly.
Yelk, yelk, x. yolk.
Yell, yel, v. to utter a sharp cry.
Yellow, yel'ô, ad; of a brght gold colour,
Yelp, yelp, v. to bark shrilly.
Yeoman, yô'man, n. a farmer; a freeholder.
Yestenday, yes'ter-dâ, n. the day last past.
Yew, yoo, n. an evergreen tree. y estregasy, yes'ter-ca, n. the day last past. Yew, yoo, n. an evergreen tree. Yield, yêld, v. to produce. Yolk, yêk, n. yollow of an egg. Yoke, yôk, n. bondage. Yoke-felow, yôk'fel-d. n. an associate. Yoke-felow, yôk'fel-d. n. an associate. Yonder, you'der, adv. at a distance within sight. Yors, yôr, n. ancient days. Yenne, you, add not lower hour a the effect of the past you and the effect of the past you and the effect of the past you are the pas Young, yung, adj. not long born: n. the offspring of Yule, yool, n. the old-time name of Christmas. lammals.

Zahra, zá'bra, n. a small Spanish vesael.
Zamia, zá'ml-i, n. a genns of plants.
Zanella, zá-nel'a, n. a twilled fabric for covering
Zany, zá'ni, n. a buffoon.
Zany, zá'ni, n. a buffoon.
Zany, zá'ni, n. a shater's hammer.
Zaniecii, n. ardour.
Zend, zend, n. esrly Persian language. [the Parsees.
Zend-Avesta, zend-á-vest'á, n. the ancient writings of

Zenith, zen'ilh, the highest point of the heavens. Zephyr, zef'er, m. a gentle wind. Zero, ze'ro, m. nothing; the point from which a thermometer is graduated.

thermometer is graduated.

Zeat, zest, n. eagerness; relish.

Zigzag, zig zug, adj, this way and that.

Zigzag, zig zug, adj, this way and that.

Zincode, zing köd, n. positive pole of a galvanic batZincography, zug-kog zi-li, n. a process of printing
from zinc plates.

Zither, zi/li'er, n. a flat-stringed musical instrument.

Zodlae, zi/di-ak, n. imaginary inner circle in the
hevens containing the twelve signs through which
the sun travels.

the sun travels.

Zolc, zo'ik, adf. relating to animals Zofc, zö'ik, adj. relating to animals.
Zone, zön, »a girdle; a division of the earth.
Zoography, zö'og'rā-fi, ». description of animals.
Zoolite, zö'o-fi, ». description of animals.
Zoology, zö'o-fi, ». the natural history of animals.
Zoophyte, zö'o-fi, ». a plant-like animal, asthesponge.
Zoospore, zö'o-fi, ». a spore capable of moving.
Zootomy, zō-o-fò-mi, ». the austumy of animals.
Zuiu, zoo'loo, ». an African Kaffer race.
Zuiu, zoo'loo, ». an African Gaffer race. Zumology, zumol'o-ji, n. science of fermentation.
Zygomatic, zig-o-mat'ik, ady. pertaining to the cheekZygon, zi'gon, n. a connecting bar. [bone.

Zyme, zim, s. a germ supposed to cause zymotic disease; a ferment. Zymotic, zi-mot'ik, adj. pertaining to fermentation. Zythum, zi'dum, n. a liquor made from wheat and

THE BRITISH COINAGE.

The Standard Coinage of Great Britain consists of the following pieces, some of which are issued for special purposes (not for currency):—

Com.	Stand ard Weight.
Gold: Five Pound Piece Two Pound Piece Sovereign Half-Sovereign Sliver: Crov Double Florm Halt-Crown Florin: Sinhing	Crams. 616'37239 246'54895 123'77417 61'037'3 436'37'36'3 349 00000 218 18187 174'4545 87'27272
Sixpeace Groat Threepemy Piece Twopenny Piece Penny Bronze: Penny Halipenny Farthing	43'03'36 29'09090 21 81818 14'54545 7'27'72 145 83313 87'50000 43 75000

Standard Gold Coinage in Britain consists of eleven-twelfths of fine metal and one-twelfth of alloy; fineness, 916'66. Twenty troy pounds of standard

gold are coined into 934 sovereigns and one har-sovereign, one truy ounce is, therefore, worth \$3.175, 105d, and one ounce of pure gold, £4.48, 115d. The minimum weight at which a sovereign is allowed to remain current includinged is 1225 grams; that of half-a-sovereign of 3 grams. Any person to whom it is tendured may break, cut, or defate any gold coin below the least current weight, but light gold coin which has not been illegally dealt with is re-ceived by the Bank of England on behalf of the Mint at its full face value.

Standard Silver comprises thirty-seven-fortieths of fine metal and three fortieths of alloy; fine ness, 925 One troy pound of standard silver is comed into 66

Bronze as employed in minting in the British Em-pire is an alloy of copper 95 parts, tin 4 parts, and

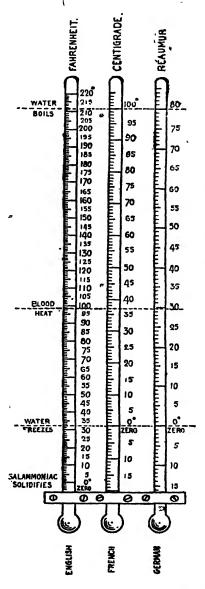
No person is permitted to coin any token to pass for, or as representing, any British piece of money under a penalty of £20.

a penalty of £.2...

Bank of England Notes are issued for sums of £5. £10, £20, £50, also for £103, £200, £500, and £1,000. The tender of Bank of England Notes is legid in England and Wales for every purpose; but no one can be compelled by law to give change, Gold, if shove the minimum recognised current weight, is a legal tender to any amount. Silver is not a legal tender for sums over £2, nor bronze, including farthings, for beyond a shifting.

Treasury Notes of the value of £1 and 101 are now issued and are legal tender for any amount.

PEARS DIGTIONARY of GENERAL INFORMATION.



THERMOMETER COMPARISONS.

There are three Thermometers in common use: Fahrenheit's in English-speaking countries generally, Centigrade in Latin countries, Réaumur in Germany.

The only difference between them is that the three thermometers being placed in freezing ice and the position of the quicksilver being marked on the glass, and the same three thermometers then being put into boiling water and the height of the quicksilver marked at that point, the distance between the two points is divided into 180 parts by Fahrenheit, zoo parts in Centigrade, 80 parts by Réaumur.

Whereas in Centigrade and Réaumur freezing point is marked as "o," Fahrenheit marks his first degree at thirty-two degrees below freezing point, thus making size his boiling point.

The accompanying table will facilitate the conversion of one reading into another.

Readings of any one of these three scales can be converted into those of any other by the following rules:— Réaumur to Centigrade × 5+4

Sal-ammoniac

Pears' Dictionary of General Information

TREATING UPON SOME 6000 DIFFERENT SUBJECTS INCLUDING THE CHIEF MATTERS OF INTEREST IN

History, Science, Invention, Literature, Folk-Lore. Music,

Exploration, Ethnology, Commerce, Trade and Industry, Politics, Religion,

Education, Palacontology, Economics, Navigation,

Natural History. Geology, Architecture. Antiquities, Astronomy, &c.

NOTE.—Biographical subjects of all periods are dealt with in the "Dictionary cy Prominent People" section; information concerning domestic birds of the home and form and he Printer of this content of the Content of Con

Abacus, the upper portion of the capital of a column; also a contrivance for adding figures
Abaddon, the angel of the bottomless pit—Apollyon,

hattis, a military term signifying an entrenchment of trees placed side by sale with the branches outwards. Abbaville Treaty, the surrender, in 125, by Henry III. to Louis 17.., of his claims to Anjou, Normandy, and adjacent provinces.

Abbey Ille Treaty, the surrender, in 125, by Henry 111, to Louis 12., of his claims to Anjou, Normandy, and adjacent provinces.

Abbey — monastic or conventual establishments governed by an abbot or an abbrss—were among the earliest of Christian institutions, and were adopted in Western Europe under the Benedictines in the 6th and 7th centures, spreading to such an extent that in 1415 no fewer than fifteen thousand and seventy abbeys had been established by this order alone. At Canterbury, Westminster, York, and other places in Britain the remains of Rendictine abbeys are still to be seen. The Castercian abbeys are of later date, and well preserved examples are to be found at Fountain's, Revaulx, Kirkstall, Tintern, etc. From the dissolution of the Monasteries by Henry VIII. monasticism practically cessed in this country, and no further abbeys were built. The ruins of religious houses in England and Scotland are among the most interesting relies of forner days.

Abdication. The term refers usually to the act of a sovercien who relinquishes the supreme power in a State. There is only one instance since the Conquest of the abdication of an English monarch, that of James III., in 1688. Among Continental nations there have been many. In France we have those of Napoleon I., Charles X., and Louis Philippe. The most notable abdications of the old Roman days were those of Suila, B. C. 79, and Dioclettain in A. D. 50; and the abdication of a nounant effort against her own will or the rights of her legal protectors, and is an offence that it sewerely punished as felony, and the abdication of an incant of detention against the will of her parells or guardians.

Researchame, a small sect of Anahaptists of the seth century, who got their name from their opposition to learning, even down to the A B C.

Abardean University, formed in 1860—as at present constituted—by the union of two ancient colleges dating back to the 16th century. It has a library of about one hundred thousand volumes.

hibrary of about one hundred thousand volumes. Along with Glasgow University, it has the privilege of returning one member of Parliament. Held its quatercentenary celebration in Sept., 1906.

Ablogenesis, a term invented by Professor Huxley to indicate the origination of living by not hving matter. The ablogenesis theory supports that of evolution by tracing the organic into the inorganic. Aboultion of Slawery. (See Slawery.)

Aborligines is a term that was first applied to an ancient Latin race, but now signifies the original inhabitants of any country. The Maories of New Zealand and the Red Indians of North America represent two prominent existent examples. As regards the older nations, abornjual evidences are difficult to trace.

difficult to trace.

Abraham ranan, a term applied to such vagrants as simulate sickness, or "sham Abraham," as thesaying is, especially among sultors. The designation issaid to have been originally horne by a lunanc beggar from Bethlehem Hospital in London, marked by a special badge indicative of the Abraham ward of the hospital in which he had been confined. These litinarian mendicants were notorious for luving enough wit, and for cunning, ducelt and productry proclivity.

Abainthe, an aromatic spirit much consumed in Prance, and made from a distillation of wormwood and other troots macerated in alcobel, and manufactured chiefly in Switzerland. Absinthe drinking is a great evil, destroying the power of the brain and ultimately inducing paralysis. Its use is prohibited in the French Army and Navy. Zola's novel "L'Assommoir" was a scathing indictment of the absinthe habit. absinthe habit.

absinthe habit.

Absolution, an ecclesisation term denoting the liberation of a person guitty of sin from its consequences by the act or intercession of religious authority. Now confined in its strict form chiefly to the Rognan Catholic and Greek Churches, although a modified form is occasionally used in certain churches of the Anglican Communion.

Academy is a Greek term, originally applied to the groves where Plato taught, but subsequently

adopted to indicate higher educational institutions or a special kind. Academies of science are num out in all parts of the world, and in addition there are what may be called Literary Academies, of which the French Academy, established in 1655, is a notable example. There are also Academies of History, of Medicine, of Music, and of Art. The Loadon Royal Academy of Arts was founded in 1765, St Joshua Reynolds being its first president. The British Academy, for the promotion of historical, philosophical, and philological studies, was founded in 1700, and is incorporated by royal chart process by which aminuals or plants are gradually junred to a climate other than that of their origin. It is a subject which has been deeply studied by scientists, more especially since the general acceptance of the Darwin theory of evolution. The results schieved have been marvellous in their effects and of great utility to mankind.

manner.

Acetic Acid, an organic acid usually obtained by the oxidation of tainted wines, the distillation of wood, or from the leaves of certain plants. Is used in medicine, as a condiment, as a mordant, and in the preparation

of varnishes, etc.

Zostylene, a powerful illuminating gas compounded of a ydrogen and carbon, readily soluble in water, will infame spontaneously when brought in contact with chlorine, and under modern conditions of willisation forms a beautiful illuminant.

Actes are compound substances which combine chemically with an alkaline or base and result in a new body that has neither acid nor alkaline propernew body that has neither acid nor alkaline properties. These resultant bodies are termed salts, and as
many salts can be produced as there are basic substances to be neutralised. The range of acid, is very
great. The chief mineral acids are sulplurie, hydrochloric, and nitric, and are capable of being utilised
for an immense variety of commercial purposes.

Loolyte, one who assists the priest in the Roman
Catholic service by lighting the candles and performsea other minor duties.

ing other minor duties,

ing other minor duties.

Accessibles, the science of sound, whereby the various phenomena of sound waves are investigated. The experiments of Lord Rayleigh in recent years have added considerably to our knowledge of this subject. **Acrobask were originally rope dancers, and among the ancient Greeks and Romans this kind of performance was very popular. In modern days the term has had a much extended meaning, and includes performers in a variety of feats of strength and dexterity which were not practised by the ancients; thus, in the general term acrobats are included men and women who perform on the trapeze, the horizontal bar, etc.

Acrostic, a kind of verse which has afforded amuse-ment to ingenious triflers from very ancient times, and consists of a composition so arranged that the initial letters of the lines, read consecutively, form certain names or words,

Actinoses, a marine group of animals of the Sea-Actinoses, a marine group of animals of the Sea-Act of Sections of the Section of the Sea-Act of Uniformity. (See Uniformity Act.) Actor Knights. In recent time, actors have received

more recognition by the State than in former days, and the old stigma of vagabondism no longer applies to the stage as a profession. From the Restoration to the stage as a profession. From the Restoration downwards prominent actors and actors set aprecises have been more or less honoured, but it is only withey recent years that titles of rank have been conferfed upon eminent actors in England. The late Sir Henry Irving and the living Sir Charles Wyndham, Sir Squire Bancroft, Sir John Hare, Sir 14. Reerbohm Tree, Sir George Alexander, Sir A. W. Pinero, and Sir J. Forbes-Robertson are among celebrities of the British Stage who lave received the accollade. Sir British Stage who have received the accolade. Sir Augustus Harris, the Drury Laue manager of a former deade, owed his kinglithood to his civic services rather than to his professional proi nence factors who have married men of this. One of

the most notable examples was that of Miss Mellon, who early in the last century first married Coutts the banker, and afterwards the Duke of St. Albans, and

bequeathed her portion of the Coutts wealth to the late Raroness Burdett-Coutts. Then there was Miss Farren, who became Counters of De by; white in more recent days there have been the marriages of Miss Connie Clichrist with the Ear. of Orkney, Belle Bliton with the Earl of Chancarty, and many others. It may, in connection with the word "actresses," be noted that prior to the Restoration of Charles II, fenale parts in plays presented on the Euglish stage were performed usually by boys, as was the rule in Shakespeare's day. Acts of Parliament comprise public Acts which

Acts of Parliament couprise public Acts which are binding on all citzens, and private Acts which refer to particular persons or places. Although the Magna Chara nay be said to have initiated the English Statute Book, it was not until the time the English Statute Book, it was not until the time of Edward 1. that Acts of Parliament came to be in any sense general. Acts of Parliament were not printed until the reign of Richard III., and they were not printed in English until the fourth year of Henry VII. The first authorsed edition of English Acts of Parliament was published between 18to and 1824. Scotch Acts date back to 1292, and Insh Acts 12 and 1824.

Adamites, a sect of religionists who claimed to restore Adam's original condition of innocence, and rejected marriage. The sect had its origin in North rejected marriage. The sect had its origin in worth Africa in the second century, and in mediaval times there were Adamites in Germany, but they were soon exterminated, many of them being sent to the stake.

Adder.

Addled Parliament." James I.'s second Parliament, called together in 2614, and dissolved without legislating

Adulteration is the act of mixing an inferior substatice with a superior one for the sake of greater profit, a practice much resorted to in former times. During the last half century, however, many stringent laws have been passed for the prevention of adulteration of food, drink, and drugs; but, in spite of all the legislation, considerable covert sophistication of articles in jubilic deniand still prevails, some of the later discoveries of science having been utilised for assisting adulteration. The approntment of public analysts in all the leading critics and towns, with power to collect samples for analysis, has had a very salutary effect, though there still remains much to be done in this direction. stance with a superior one for the sake of greater

Advant, a period devoted to religious preparation for the coming celebration of the Nativity (Christmas). It comprises four Sundays, and commences on the one preceding or following St. Andrew's Day (Nov. 30), or on St. Andrew's Day isself. Advent was not observed before the fourth century.

Advantagement is a public notification appearing in the Pressor in sume other nublic town. It was not other pressor in sume other nublic town. It was not

Avertisement is a public notification appearing in the Pressor in some other public torm. It was no much indulged in before the 19th century was well advanced, although the hist advertisement published in England dates back to April, 1047, when the ments of a book called The Danne Right of Church Government were briefly set forth in a newspaper of the time To-clay, if it were not for the revenue derived from advertisements, few newspapers could exist, and certamly they could not be the unportant and influential organs that they are. From the Times downwards, they over their success to this form of publicity. The development has been largely due to the enterprise of great advertising firms, and partly also to the universal recognition by the public of advertising as the best guide to firms, and partly also to the universal recognition by the public of advertising as the best guide to shopping of all kinds. Thus it has become one of the most effective business factors. In these days advertising is for the majority of businesses as necessary a department of commercial organisation as that of proof ong the goods advertised. Advertising in its higher form has had a considerable educational influence upon the public, as evidence of which it is only needful to recall the many superbard productions which Messrs Pears and others have put before the public by means of advertising both in the 'newspapers' and on the hoardings. Messrs. Pears paid '£,2,200 for the famous "Bubbles" picture by the late Sir J. E. Millois, P.R.A., and the same

firm have similarly popularised works by Stacy Marks, R.A., and other enument artists. One of the latest developments of Messrs. Pears was to place actualed paintings of large size on the hoardings. An Act of 1907 conferred on local authorities powers of controlling hoardings used for advertising when they exceed twelve feet in height, and prohibited the display of advertisements in such places in a mainer detrimental to the leauty of a landscape.

Levocatus Diaboli ("the devil's advocate"), a

Roman Catholic functionary who presents opposing evidence in regard to the life of any deceased person

it may be proposed to canonise.

nt may be proposed to canonise.

Advovason is the right of presentation to a vacant Church benefice, and is capable of being sold or mortgaged. By far the greater majority of advovaons are in the hands of private persons; the rest are under the patroniage of the bishops, deans, and chapters, universities, and the

Eclian Harp is a musical instrument now not much used, but formerly in considerable favour. It consists of cargut stretched over a worden spundbox which, when placed so as to receive a controllable current of air, can be made to emit many

anne chrent of air, can be made to chit many pleasing harmonics.

Aerated Bread is made by special process in which carloma cad gas is used instead of yeast. In London there are numerous restaurants promoted by the exploiters of this practiple, which has achieved considerable popularity.

Acrated Waters are manufactured in great variety. All have their origin in the introduction of carbonic acid or other gaseous ingredient into the water by pressure; and, by special subsequent treatment, assume the form in which they are sold, including lemonade, ganger beer, potasii water, soda water, seltzer, lithia, etc., the flavouring being an im-

portant element of production.

Aerial Navigation has developed at an amazing pace since the outbreak of the Great War; under the pace since the outbreak of the Griat War; under the stress of practical war-service every class of aircraft has been tested, and our knowledge of the comparative utility of the various machines of the belingerent countries has been greatly extended. At the outbreak of hostilities Germany had 470 aeroplanes and 2 airships, France good replanes and 4 airships, Russia 400 aeroplanes and 4 airships, while Great Britain had only 130 aeroplanes and 4 airships, while Great Britain had only 130 aeroplanes and 5 airships. Immediately after the declaration of war there was a tremendous specifying in notably in connection with the British Arm, and some of the cluef successes in war avaiton have and some of the chief successes in war aviation have been won by our airmen. The mobility of our aircraft, mostly hipkines, and the daring of the men who have handled them have been marked features of the struggle. Month by month this service has been anguented in numbers and efficiency, furnishing valuable information to our generals at critical moments, and making successful raids in many directions. Germany has not succeeded in its threats with its military are raft. There have been Zeppelin raids upon unfortified towns and quiet country places, and also upon big cities and towns, but the total result of also upon big crites and towns, but the total result of damage must be disappointing to the German war leaders. The French art-fleet has proved itself as generally compotent for its work as it has heen brilliant in its special feats. Austra's air work has not been exceptionally untable. After the great object lesson provided by the war the whole science of aviation must energe with expanded ideas, costly mistakes must be remedied, and improved methods followed. Considering the hazard of the service, the aviation fatalities during the war have been small. Seventeen different makers of aeroplanes have lelivered an average of four machines a week since the war broke out.

the war broke out. —

Berolite, the name given to meteoric stones which sometimes fall from the sky to the earth. These substances usually contain a large proportion of rogs, and many have been of great weight and dimensions. Plny mentions one that was as large as a wagon, and there is a record of one weighing apo ib, having fallen at Eussheim, in Albace. The

British Museum contains a potable collection of these

storm-stones from the sky,"
spoplane. (See Aerial Navigation.)
schettes concerns uself with the science of the beautiful, and is applied not only in the field of art, but in connection with metaphysics and science. From the days of ancient Greece to the present time From the days of ancient Creece to the present time there have been ardent followers of assistatics, and many systems have been evolved. Among modern writers on the subject may be mentioned Ruskin and Herbert Spencer in England, the two Schlegels in Germany, and Taine in France. Mr. Spencer set up a hierarchy of resthetic pleasures from the lowest to the highest. The theories of "the Beautiful" will always remain a fascinating study to refined munds.

minus.

Eastivaction, the period of summer quiescence or sleep, corresponding to lubernation, which certain tropical animals and plants undergo during the

extreme heat.

extreme near a written or printed statement of facts to which a deponent makes formal eath before a judicially qualified person. Most attorneys are commissioners for administering oaths.

Affirmation is a declaration made in lieu of an oath by persons objecting to be sworn because of religious or other scruples. Perjury applies to affirmations

the same as to oaths.

the same as to oaths.

Afforastation. (See Foresta.) •

Affolds, a warther race of hillmen on the north-west frontter of Indua. It was against a branch of this race—the Zakka Khelv—that a successful British punitive expedition under bir James Wilcocks was despatched in February, 1908, to exact redress for a long series of looting raids.

Afrikander, a name usually given to the Southe African Dutch, but rightly applied to all Africanborn which.

born whites.

After-damp is a muxture of carbonic acid and mitrogen that occurs in a mine after an explosion and causes suffocation to human beings. It is also

and causes samoutous to minima beings. It is also called "hobe-deart" held by the early Christians, in commenceration of the Lord's Supper. Condenued by the Council of Cirthage, 397, but reviewed in recent junes in a modified form by Moravians and some Methodists.

Agapomone, the title given to a so-called religious society tounded in 1845 by H. J. Prince, at Charlinch, near Bridgwater, which has attained some notoriety in recent years. It is a sort of "free love" commune,

in recent years. It is a cort of "free love" commune, unattached to any recognised sext.

Ran-agar, a vegetable gnu obtained from seaweeds, and largely employed in the Orient in the composition of soups and jellies.

**Randa a variegated stone composed of nearly pure sidea. Germany, Brazil, and India furnish the main supplies, and Scotland has a species of agate called Seat be middle.

Scotch pebble

agave, the American aloe, which sometimes does not attain to flowering maturity under sixty or seventy years, and then dies.

Les is a term of wide application and has been variously used at different periods. In classical mythology five successive ages or races were defined—the five successive ages or races were defined—the golden or primitive, when people enjoyed unalloyed happiness without labour and lived on the fruits of happiness without labour and lived on the fruits of the carth: the sziner, when the worship of the gods was neglected; the brazen, which was warinke and volvint: the herore, when the gods and semi-gods held sway; and the room, representing the lowest point of human degradation. Hesiod and Ovid both retain this classification. In later times the ages group themselves round some pre-eminent, dominating personality or characteristic; thus, we have the age of Pericles, the Augustan age, the Elizabethan age, the dark ages, the middle ages, the steam age, and so forth. Then there are the geological ages—classifying the ages according to the evidences of the various strata. Archavologists divide the pre-historic periods into the Stone, Bronze, and Iron Aged. As regards individual life, age has its four main divisions of inflancy, youth, manhood, and old age; these again are often subdivided. Shakespeare gave us his "Seven Ages"; Keats adopted the four seasons classification. According to British law, a man or woman is of age at 21.

Agionites, an obscure sect of seventh-century ascetics who made pretence of special sanctity and suffered condemnation by the Council of G ungra.

Elaia, an asteroid found by the astronomer Luther,

in 1857, and so called because of its brilliancy.

In 1857, and so called because of its brilliancy.

In 1867, and so called because of its brilliancy.

In 1867, and first struck temp. St. Louis. The appellation was due to the figure of the Agmus Dei anno of God) on the obverge.

In noticism, a term first used by Huxley in 1869, and the denote the theory that beyond our personal know-

denote the theory that beyond our personal know-ledge of phenomena all is uncertainty. This was his own attitude towards spiritual things. Agnosticisr-meither denies nor affirms the existence of God.

Agains Del (Lamb of God), the name of a Roman Catholic prayer; also forms part of the Gloria in the Anglican communion service

Agony Column, the portion of a newspaper devoted to advertisements of a secret or personal nature.

Ahriman, the Zoroastrian spirit of destruction.

Air is a mixture of gases forming the atmosphere we breathe. Its constituents are, reckoned in 1000 weathe. Its constituents are, reckoned in too wellunes of air, 205'r of oxygen, 7795 nitrogen, 14 sq-sous vapour, and 0 4 carbonic acid gas. Reyond these are found traces of nitric acid, ammona, and particles of solid matter. The height of the atmosphere is supposed to be about 40 miles. It is the exygen of the air that maintains life.

exygen of the air that maintains life.

Air-gun, an instrument for firing projectiles by means of compressed air, but hitherto of little practical use. In recent years the United States Navy has experimented with an air-gun of large calibre, called the "dynamite gun," but it has not yet been adopted to any particular extent.

Air-pump. This ingenious contrivance was invented in 150, and consists of a receiver, from which the air is to be exhausted, and a pump, which is a brass

is 1500, and consists of a receiver, from which the air is to be exhausted, and a pump, which is a brass cylinder with a piston in it, for drawing off the air. The air-pump has been of great utility in scientific experiments, and its governing idea is applied to the condensing steam-engine for drawing away the commingled air and aqueous vapour from the condenser and casting them into the hot well.

Air-ship. (See Aerial Navigation.)

Akka, a race of piguies inhabiting the territory between the rivers Aruwimi and Nepopo, in Central

Arrica.

Alabama Claims were claims for compensation made by the United States against Great Britain and the Arrange shipping during the hands by the Onterior and shipping during the Civil War by the Alabama privateer, built by the Ledrds of Liverpool for the Confederate service, and commanded by Captain Semmes. After doing commanded by Captain Semmes. After doing damage to an enormous extent, the Alabama was family sunk off Cherbourg by the Keersage, of the U.S. Navy. The U.S. Government charged Great Britain with breach of neutrality, and made a formal claim, which was decided by arbitration at General table. in 1872, the Court giving a verdict for the clamants (in respect of the Alabama and two other ships) for over 4.3, 50,000.

Slabaster, a 30ft, crystalline form of sulphate of lime,

and the comments and the statuary and other or manufacted gyposum, easily worked for statuary and other ornamental articles, and capable of being highly polished. Solterra, in Tuscany, yields the facest; that in highest ancient repute came from Alabastron, in Egypt, near to the modern Antinoë.

Alais, Treaty of, 1620, whereby, after the "Zhing of La Rochelle, the Huguenots submitted to Richelley, and the long religious conflicts between the Catholics.

and the long religious conflicts between the Catholics and Huguenots were for a time ended.

All Aref, the mid-heaven of the Koran, where those whose deeds have been neither decidedly good nor

whose deeds have been neither decidealy good not very bad, spend their after-life.

Ibatross, a large white ocean bird whose wings measure from ten to twelve feet when outstretched.

Ibatr Hedal (1), a medal of the Society of Arts, given to scientific men, inventors, etc.; and (2) a medal awarded for gallant deeds in saving life on ease or land.

Albert Mamorial, a large Gothic monument de-signed by Sir Gilbert Scott, and embellished with sculptures by eminent artists. Erected in memory of Prince Albert in Kensington Gardens at a cost of

of Frince Albert in Kensington Gardens at a cost of fraccoo.

Albigenses, a small religious sect who in the rath century, at Albi, in France, opposed the payal rule, but were ultimately put down by Innocent III.

Alblino, a term first applied to designate certain white negroes which the Fortuguese navigators met with in Africa. It is now used in regard to all persons of white skin and hair and plak eyes. Albinos cannot see well in the sunlight; it is only in semi-dartness that they discern objects clearly. The albino peculiarity is also found in other living creatures besides man. creatures besides man.

Al Borak, a winged being on which Mahomet was credited with having travelled through the

heavens.

Album, a term now used for a book of photographs, autographs, or other collections, but originally ap-plied to the tablets on which public decrees, edicts, etc., were inscribed in ancient Rome. In mediaeval times the word was used to designate lists of various kinds.

Albuman, a substance essential to the building up of the animal organism. The white of an egg shows it in its purest form. It co-gulates under heat, or by the action of acid or alcohol, and is further capable of soluble or insoluble modifications. It provides an anti-toxin in corrosive sublimate poisoning.

Alcalde, a Spanish mayor, judge or magistrate, or in Portugal a justice of the peace; not to be confounded with the similar word "alcade," which signifies the keeper of a castle or prison along both shores of the Mediterranean. The latter is a military term, the Mediterranean. The latter is a military former signifies always a civil functionary.

Alcazar, the famous palace at Seville, now owned by the monarchs of Spaln, but in ancient days the residence of the Moorish kings.

Alchemy was from the 12th to the 17th century regarded by many philosophers and enthusasts as a science capable of demonstration in the production of one or other of three supposed chemical combinaof one or other of three supposed chemical communa-tions—the philosopher's stone, which was to trans-mute the baser metals into gold; the elixir of life, that was to prolong existence indefinitely; and the alkahest, or universal solvent. Men of great attain-ments, monarchs, ecclesiastics, and all classes of people dabbled in alchemy; lives were given up anisolar at the fortunas warea wasted upon it. Geher. people dabbied in alchemy; nves were given up entirely to it, fortunes were wasted upon it. Geber, Roger Bacon, Albertus Magnus, Paraccisus, and many other men of note were devoted alchemists. The experiments of the alchemists, however, in spite of their being directed towards an impossible end, resulted in many discoveries that were of value to the real science of cliemistry.

to the real science of chemistry.

Aloo, an American dog, native of Mexico and Peru, and resembling the variety of the canine family commonly employed in Britain by sheipherds. It is long furred, arched in the back, small-headed, and has a short drooping tall. The colours usoned to the colours when the colours were the colours when the colours were the colours when the colours when the colours were the colours has a short drooping tail. The colours most prominent are yellow and white, and the animal is tractable and held in considerable esteem.

Alcohol is a chemical combination of carbon, hydrogen, and oxygen, and is produced in its pure state by the distillation of fermented liquors. It is used in the manufacture of a variety of products, such as chloroform, ether, perfumes, etc.; its most general use, however, is in inparting a stimulative action to liquors, rendering them of intoxicating effect upon consumption in sufficient quantity. When diduced consumption in sufficient quantity. When diluted with ro per cent. of wood spirit, alcohol becomes "methylated spirit," and in that condition can be used for numerous industrial and chemical purposes,

and is largely exempted from duty.

Aldebaran, a star of the first magnitude, commonly known as the Bull's Eye, being in the constellation of Taurus

Aldehyde, a product of the oxidisation of alcohol and othe, which when exposed to the air turns into vinegar. Discovered by Liebig.

Alderman, a title first instituted by the Saxons and given to governors, magistrates, etc. Afterwards

adopted to designate the higher section of

municipal corporation.

Aldine Editions are the books printed in Venice by Aldin Manutius and his family between 1490 and 1597, and are remarkable for the beauty and accuracy of their typography. Italics were first introduced in these books.

these doors,
Ale. (See Beer.)
Alembio, a vessel formerly much used in distillation,
but now generally superseded by retorts.
Alexandrines are stanzas, each line of which contains twelve syllables—six measures,
the standard a variety of aquatic flowerless

Alge is the name of a variety of aquatic flowerless plants of which seaweed is a leading example. They are classed in two main divisions—marine and freshrater alga.

Algazel, an antelope found in Nigeria and the Gambia country; it is of good size, with horns a yard long, annulated in the lower half.

Algebra, a branch of mathematics in which symbols are used in place of numbers. Sir Isaac Newton styled it the "universal arithmetic."

Algol, a double star of the Persons constellation, situate in the head of Medusa.

Albambra, the ancient pulsace of the Mooriea kings near Granada, built in the 1th century, and remark-able for its architectural grace and beauty. Albas, a Latin term signifying "otherwise," and used in legal proceedings to indicate the assumption of a

e name or names. Alibi, signifying "clsewhere," is the plea of a person

who desires to prove that he was at some place away from that he is charged with having been at when a

articular offence was committed. Allens are persons of foreign birth residing in a country and unnaturalised, and not entitled to the ordinary privileges of a native subject. Owing to the influx of undestrable miningrants to this country legislation of a partly prohibitive character was adopted by the Aliens Act of 1905, which refuses admission to criminals, prostitutes, and other objectionable classes. After five years' residence an alien can be naturalised in Britain. After the outbreak of the war, in 1914, when all unnaturalised Germans and Austrians remaining in Great Britain became alien enemies,

thousands were interned, and all were required to register and report themselves at short intervals.

Alimony, an allowance to a married woman legally separated from her husband, fixed by law, and paid

by the husband.

Alizarin, the chief colouring matter of madder; heated with zinc dust, it is converted into authracene.

neared with zinc out; it is converted into anthracene.

Alkali, the general name given to a number of substances which are the opposite to acids in their chemical action. The term is commonly applied to soluble alkaline bodies, the principal of which are potash, sod, Ithia, aqueous announa, line, baryta, and stronta. The action of the solutions of these body. m animal and vegetable substances. and they are extensively used in producing various olouring matters.

Alle, the Swedish name of the little auk, or black and whate diver, commonly called in North Britain the "Rotche." To our shores it is a winter visitor only.

Allegiance is the attitude and expression of loyalty of a subject to a ruler. Ordinarily, it is only implied, but in the case of those fulfilling offices or functions of tate is confirmed by the Oath of Allegiance.

Allegory, a narrative or discourse couched in figurative language and intended to point a moral. A leading example is Biniyan's Progress.

Alligator, the crocodile of America, common in the lower Mississippi and adjacent lakes and marshes, varidare in leagth from the not beauty from the notion of th

lower Mississippi and adjacent takes and marshes, varying in length from two to twenty lect.

Alloys are combinations of inferior and superior needs. Our coinage contains alloy. In a sovereign there are twenty-two perts of goldend two of alloy to eleven of silver. The alloys best known are bruss, composed of copper and zinc; German silver, of copper, zinc, and nickel; pewier, of tin and lead; bell-metal, of copper and tin. When inorgary forms part of an alloy, it is termed an analyzan.

Alt Baints' Day (Nos. 1) is common to both the

English and Roman Catholic Churches, and is in commendoration of the saints generally, or such as have no special day set apart for them. Instituted by Pope Boniface IV, early in the 7th century, this ecclesiastical festival was formerly called "All Hallows

All Souls' Day (Nov. 2) is a festival of the Roman Church, intended for the mitigation by prayer of the sufferings of souls in purgatory. The commemora-tion was enjoined by Abbot Oidlon of Cluny during the 11th century upon the monastic order over which he presided, and was afterwards adopted generally throughout the Roman Communion.

generally throughout the Koman Communication.

Allaples, a flavouring obtained from a West Indian
tree of the myrite order, Princeta officinalis. The
easential old of its unripe fruit is a powerful irritant,
and the bruised herries are carminative.

and the prince herries are carminative.

All the Talents Administration was so called because of its being a collition of the best men of the two political parties, formed on the death of Pitt, in 1866, by Lord Grenville.

Alluvium, accumulations of sand, mud, gravel, etc.,

Alluwium, accumulations of sand, muri, gravel, etc., washed down by rivers and forming distinct depocition.

Allylane, a colourless, foul-smelling gas, obtained by the action upon bromopropene of sodium ethylate. It burns with a smoky fiame, and yields a yellow precipitate with cuprous chloride.

Almaek's, a fashionable room of gasembly iff St. James's, built in 1705, and for many years the sceae of balls and society functions.

Almaek's, built in 1705, and for many years the sceae of balls and society functions.

Almaens, a calendar of the year, with particulars of days, weeks, and months, the position of the sun and moon, tidal information, records of festivals, fairs, etc. Almanacs, are of numerous special varieties. Up to 1834 they were subjected in this country to a stamp duty of 19d, per copy. "Old Moore's Almanac," a popular penny Issue, with horoscopa, predictions, etc., has for a lengthy period circulated largely.

Almond, the fruit of the Amygdalus communs, indi-genous originally to Persa, Asia Minor, and parts of North Africa. There are sweet and bitter almonds, the former being a favourite edible, the latter con

taining prussic acid.

Almoner was a monastery official charged with the distribution of alms. There was also the King's Almoner, and the title of Hereditary Grand Almoner till survives, though not involving any duties.

Almuco, a covering worn in former days by ecclesiastics while celebrating the Liturgy, and the eriginator of the "mortar-boards" still in vogue at

ongmator of the "mortar-boards" still in vogue at certam schools, colleges, and cathedrals.

Aloa, a large plant of the lily-wort genus, prowing naturally only in warm climates, and yielding by evaporation a purgative substance of great interness. In its hibitant it flowers every eight years.

Alopacian, a genus of fishes of the shark family, one

of the most notable varieties of which is the thresher, or fox-shark

Alpace, a South American runinant whose wool is woven into a soft dress fabric known by the same name. The late Sir Titus Salt was the first manumanne. In elate 317 THIS Sait was the first manu-racturer of alpaca cloth, and the industrial town of Saltaire, near Bradford, remains to evidence the success which for many years attended the enter-prise. Many attempts have been made to acclimatise the alpaca goar in England, but with little success. Unannflow, the precision resulting atmosphasic con-

A lpanglow, the peculiar evening atmospheric condition observable at times in Alpine regions.

Alpine and Omega, an expression incorporating the first and list letters of the ancient Greek the base of the ancient conditions and the first and list letters of the ancient Greek the base of the ancient Greek the ancient

the first and last letters of the autemt Greek applacet, and used to convey the idea of the beginning and end of anything—the whole of it.

Alphabet (so called from the first two letters of the Greek alphabet—alpha, beta) is the term applied to the collection of letters from which the words of a language are made up. The Phenncians are credited with the first aloption of an alphabet. The Chinese have no alphabet, but signs which coavey ideas. The Sanskrit alphabet comprises so letters.

Alpine Climbing has a perennial fascination for the adventurous of both sexes, and the "Alpine Club."

founded in the interests of British travellers in this famous mountain regron in 1858, has done much to encourage and facilitate the ascent of diffick-t and forbidding peaks. Mr. Edward Whymper and others reached the summit of the Matterhorn (14,856 ft. lin July, 1868; but four of the party were killed in the descent. Since then this dangerous climb has been negotiated without acticlent by ladies and gentlemen, both with and without guides, on sumerous occasions, though against this there are several fatalities to set. Mr. H. O. Jones, lecturer at Clare College, Cambridge, and his wife were killed while climbing the Afguille Rouge de Pentéret above the Fresnay Glacier on August 53, 1912. Alpine climbing will never, however, it seems, lose its charm to certain minists. Our greatest authority on the Alpine cimbing will never, however, in seems, lose its charan to certain minds. Our greatest authority on the subject is the Rev. W. A. B. Coolidge, an Angio-Amenican cleric who has scaled almost every point in the course of nearly a thousand separate clunis since 1870. For, Tyndall was a noted mountainers.

Alexatia, a district of Whitefrars**, London, which was a fee bless course of a court of the course of the c

Alastia, a district of Whitefrars, London, which was for a long period a recognised sanctuary for oebtors and criminals, where they could not be captured. It was abolished in 1697.

Itaxy originally a table or elevated place upon which sacrificer were offered up, and still symbolically the place of sacrifice in Roman Catholic churches. It English experies the communion table is the altar. Itimzeter, an instrument designed for the compilation or measurement of altitudes tragonometrically. Itimzeter, an astronomical term, signifying the angular elevation of a heavenly body above the horizon, true or apparent—that is, as it appears to the eye, or as the result of calculation. The observation may be made with quadrant or sextant.

made with quadrant or sextant.

made with quadrant or sextant.

**Albe-Relievo, a term applied to sculptured designs which are depicted in prominent relief on a flat surface, technically signifying that the projection axceeds ene-half the true proportions of the objects represented. Basso-relievo is carving kept lower than one-half such preportionate projection.

**Altraism, a term invented by Comte to denote devotion to the welfare of others, the opposite of Egoism Alam is a compound sait used in various industrial processes, especially dyeing, its constituents being sulphuric acid, alumina, an alkali, and water. The nature of the alkali introduced gives it its distinctive character, so that there are potash alum, soda alum, and ammonia alum.

Alumina is the oxide of aluminium, and is used as a bassi for fine pottery.

hasis for fine pottery.

Aluminium is a constituent of alum and forms a white netal of a very pliant nature, admitting of its being utilised for a variety of purposes. It resists the action of the air, is impervious to nitric acid, and its conductivity is about one-third that of silver. It alloys with most metals

Amadawat, a smull bird occurring in the Indian Archipelago, brightly coloured and active, kept cometimes by the Bengali baboos for fighting to-

Amalgam is the term applied to any alloy of which

gener and the term applied to any alloy of which mercury forms a part. A managem, the women of an Indian tribe on the banks of the Maranon, in South America, who assisted their husbands in resisting Spanish invasion; also the female warriors of any land, such as the Amazon attached to the army of the King of Dahonry.

Amber, a brittle resinous substance of vegetable origin, obtained mostly from the Baltic coasts, and used for ornaments, pipe mouth-piece- etc.

Ambergaria is a varience of the cachedo or appearanced in the intestines of the cachedo or appearanced whale, and generally found floating on the sea. Is a valuable perfumery material, and is used in the East for flavouring purposes.

Amblyosphalus, a genus of homopters including the foth-fix, which is destructive in many hop gardens in July and August, sucking the sap from the vine. Amblyosphalus, a species of fish, practically sightless, and with inoperative organs of hearing and feeling that inhabit the Marmooth Cave of Kentucky. A remarkable illustration of the failure of senses not brought into use. brought into use.

Ambulance, an ambulating hospital, for affording surgical aid to persons wounded in lattle. The term is also applied to vehicles for conveying injured or sick persons to hospitals if populous places, a service of this kind being now provided in most cities and towns. An Ambulance Corps is part of a regular army equipment. The French were the first to adopt ambulances.

Ambuscade is a military manœuvre by which troops are ambusched for a survise attack upon an energy.

are amushed for a surprise attack upon an enemy.

Ameer, an Indian title of high nobility signifying
"noble of indies," "lord of lords." Hyderabad and
other Oriental States now included in our Indian Empire had their Ameers, and the native head of Afghanistan still holds the distinction.

Angenistal still holds the distinction.

America Cup, a prace trophy first offered in 1851
by the Royal Vacht Squadron and open to yachts
to all nations. It was won in the first year by the
"America," a New York yacht, and has remained on
that side of the oceni ever since, despite several
attempts to recapture it by Lord Dunraven, Sir
Thomas Liptou, and others. Sir Thomas was
challenger for 1914, but war made the contest impossible.

Amethyst, a variety of precious stone of violet-blue or purple colour, occurring in crystals and greenstone rocks, and fairly abundant in Brazil. Some parts of Scotland yield an amothyst. Once supposed to be

a charm against diunkenires.

Amianthium, a plant of the Melanth genus, called in America "Fall Poston," because of the notion that cattle feeding on its foliage in an umn would suffer ill effects.

Amice, a linen vestment worn about the neck by Roman priestsjunder the allowhen officiating at Mass; also assumed by some Anglican ritialistic clergy-men. Formerly worn on the head by prests and

Amions, Treaty of, signed by England, France,
Spain, and Holland in 1802, brought the War of the
French Revolution to an end, and great were the
rejoicings at the prospect of a long peace. Fresh
cause of quarrel was soon found, however, and Napoleon resumed the warfare, which only ended with Waterloo,

Ammiolite, an earthy powder, scarlet of hue, found in the mines of Chih, and considered to be an admixture of cinnabar, antimonate of copper, and

certain other ingredients

Ammonia, a colourless gaseons compound comprising three atoms of hydrogen to one of nitrogen. It is obtained from various sources, but formerly was made by heating the horns and hoofs of deer, acquiring the name of spirits of hartshorn. The ammonia of commerce is now procured by coal decremoniation in the course of are, making decomposition in the course of gas making

mmonites, the name of extinct smallike animals which inhabited coiled shells of beautiful design Their fossils are found in the secondary system of

Ammonium, the basic radical of ammonium salts, a

Ammonium, the basic radical of amanonium salts, a compound of hydrogen and nitrogen.

Amnesty, an act of grace by which a ruler or governing power pardons any body of political offenders. It is usually absolute, as when George II, proclammed a general pardon to those who had been concerned in the second Jacobite rebellion; but it may be usually as when y expense certain scaling. in the second Jacobite rebellion; but it may be partial, as when it excepts certain specified persons from its operation, as Napoleon excepted severaimen from its amnesty on his return from Elba.

Amaba, a minute form of life, gelatmous, without rudiments, of the lowest organisation, and only discernible through the microscope. Abounding in fresh and stagmant waters,

Amorphism, a term used to indicate the absence of crystalling form in any body or substance.

crystalline form in any body or substance.

Ampare, the recognised unit of measures for electric

Amphibia, a class or vertebrate animals possessing structural peculiarities common to both reptiles and fish, enabling them to live either in water or on land.

The most familiar examples of the class are frogs, newts, and toads.

Amphithentre, a term first used by the Romans to

denote the buildings set apart for gladiatorial and wild beast exhibitions. The Colosseum, which held nearly 00,000 pursons, covered an area of about five acres. The ruins of this gigantic structure form one acres. The runs of this giganic structure form one of the fiftest relics of ancient Rome. There were numerous other amphitheatres in different parts of the Roman Empire, including two or three in Britain, and the term is still frequently applied to buildings where exhibitions are given.

Amphitherium, a genus of fossil mammalia found in the lower colite in Oxfordshire, and so called because of the difficulty it presented to scientists in attempting

its classification.

Amphora was a large clay vessel used by the Romans for preserving wine, fruit, oil, etc. Amulet, a necklet or other ornament worn as a charm

anagement of the transmission worth as a charm against evil and much used in former times in England. Still common in the East.

Ana, a word used to describe any collection of criticisms, observations and opinions regarding a particular person. Modern examples: 10 alphiana, Raconiana.

Anabaptists, a sect that came into prominence during the Reformation period. John of Leyden was one of their leaders, but Minizer was their chief prophet. They committed many acts of violence under the close of religious zeal, but their operations were

mainly confined to Germany. They are not to be identified in any form with the English liaptists.

Anabasia, Xenophon's narrative of the exploits of Cyrus the Younger against his brother Artaxexes of Persia, 40r R.C. The title also of Arran's listory of Persia, 407 B.C. The title also of Arrian's listory Alexander the Great's expedition to Asia. Anachronism, a confusion of dates and events.

when an allusion is applied to illustrate a period to which it does not properly belong. To represent persons of the 18th century riding in railway trains would be an obvious anachronism.

Anacoluthon is lack of grammatical sequence in

speaking or writing.

Anaconda, a large Ceylonese snake, powerful, finely marked, and much feared by animals and the islanders of its habitat.

Anagram is a literary exercise which consists in using the letters in a given word or phrase to form a

different word or phrase.

Analogy, a method of argument whereby an inference is drawn from one set of facts and applied to another to which it has some rescriblance.

Analysis is the process by which a complex thing is reduced or broken up into its original elements. Qualitative analysis reveals the presence of certain substances, quantitative ana yes shows those substances in their respective proportions. Analysis as applied to Grammar, Mathematics, and Logic resolves phrases, propositions, and arguments into their separate parts.

Analysis, Public, are chemists officially appointed to analyse all such food and drugs as are submitted to them by inspectors within their own area. Every town of importance has its public analyst, whose official work in protecting the body politic against adulteration and impurity is highly important. Amarchism is a communistic propaganda, in which

revolutions and violence have a prominent part. Britain has harboured many foreign anarchists from time to time, but anarchist organisations do not find much to work upon here. In Russia, Germany, Italy, and the United States there is a strong undercurrent and the United States there is a strong undercurrent of anarchism, as we are occasionally reminded by assassinations of prominent personages. Among the murders committed by anarchists since Alexander II. was assassinated in 1861, those of President Carnot in 1894, the Finpress of Austria in 1898, King Humbert in 1894, President McKinlev in 1894, the Grauld Dike Sergius in 1895, are the most conspicuous. There are many anachists, however, who do not Prince of Portugal in 1908, are the most conspicuous. There are many anachists, however, who do not countenance violence except in an organised revolutionary form. Herr Most, Prince Kropotkin, Karl Marx, Reclius, and other propagandists differ grantly in their anarchistic theories, though all aim at the destruction of class rule and the establishment of a free society

Anathama was the Greek term for things dedicated to the gods, and in its modern religious use indicates unreserved offerings to God and sacrifice. Anathematisation in the Roman Church is the extreme form of excommunication.

Anchor, an instrument used for keeping ships stationary. Great improvements have been introduced in recent years, stockloss anchors being now chiefly used, consisting of a shank, a fast fluke, and a loose one. Many anchors are now made of cast steel

Anchorite is a term applied to a religious person who retires into solitude to employ himself with hely thoughts. Among the early Christians, anchorites were numerous, but in the Western Church they have been few. Their reputation for wisdom and prescience was high, and kings and rulers in old days would vait tuelr cells for counsel before under-

taking any hazardous expedition. An authorite or "ankret" was in mediaval times a source of fame and profit to the monastic house within which he was voluntarily immured.

Anchovy, a fish of the sprat order, plentiful in the Mediterranean and along the Atlantic coast, and caught off the Devon and Cornish coasts in winter Much esteemed when cured, but sprats are often out on the market as anchovies

Andrographia, a genus of plants of the acanthus order, yielding a bitter tonic, a good deal employed

in India in dysentery treatment.

Anemometer, a wind-measuring instrument, now in general use at all meteorological stations, and in its more recent developments by Mr. Beckley, of the Kew Observatory, and others, is capable of recording the force and variations of the wind with accuracy.

Ameroid is the name given to the modern baro-neter, which is on a different principle from the mercurni barometer, and consists of a metallic hox, exhausted of air, having a fluted lid on which

too, exhausted of air, having a futted ind on which indicate on a dial every atmospheric presents that indicate on a dial every atmospheric movement.

Angel, a gold cost, formerly current first in France and then in England, of value variant from 6s. 8d. to 10s. The coin bore a representation of the Archangel Michael in conflict with a dragon. The last English noble was council in the reign of Charles! Charles I.

Angelies, an aromatic plant of the umbelifers order, valuable as a flavouring and possessing medicinal properties. In olden times supposed to be a

properties in olden times supposed to be a specific against sell fortunation.

Angale, divine messengers or agents communicating with or guarding human hemps, a conception which is included in the Cherstan and other doctrines; and in former times, particularly in the Roman Church, special functions were accorded to certain angels and archangels, and their intercession was constantly apposled to.

Angelus, a church bell rung in Roman Catholic countries at morn, noon, and sunset, to remind the

faithful to say their Angelic Salutation.

Angevin Dynasty includes the Plantagenet kings from Henry II. to Richard II. The name was derived from Henry II's father, Geoffres, Count of Aniou.

Anglosperms are plants whose seeds are contained in capsules, as distinct from Gynnosperius, or naked seeds. The angiosperiu provides the necessary mechanism for conveying water from the roots to Angles a term used to denote the mountain series at the mount of the growing points.

Angles of an artery, a vein, or some other veste.

Angles, a term used to denote the meanation to each

Angle, a term used to denote the inclination to each other of two straight or curvilinear lines. Angles are measured by the degrees of the circumference of a circle, which is divided into give equal parts, the angles formed by the lines radiating from the centre being proportioned to the area of the circumference which the lines intercept. A right angle is one of of.

Angles, a northern tribe originally settled in Schleswig, who jouned the Saxons in invading Britaineand formed the Kingdom of Angle-Saxons.

Anglican Communition comprises all the churches affiliated to the English Episcopal Church, including

also the Protestant Episcopal Church of the United States. British Colonial Churchs are now preed from State control, except that the appointment of Colonial bishops still remains with the heads of the Mother Church. The Anglican Communion comprises the Church of England, the Church of Ireland, the Scottish Episcopal Church, the Protestant Episcopal Church of the United States, the Canadian Church, the Church in India and Ceylon, the Church in the West Indies, the Australian Church, the Church of New Zealand, the South African Church, and some 30 Missionary Dioceses. The whole Anglican community comprises upwards of 20,000,000 athereuits. also the Protestant Episcopal Church of the United

Angling is not the sumple sport it was in the days of Izaak Walton, when the capture of fish with a hook Izaak Walton, when the capture of fish with a hook was a fairly complete description of the sport. Now rod, line, and hook come into play in a variety if ways, and scientific methods are adopted which while making angling easier, perhaps detruct from its picturesquences. Selmon-fishing is the angling pastime of the rich, and English and Scottish waters afford plenty of good sport of this kind. Salmon are usually caught with the fly, but many artificial lures are also adopted. Trout are angled for much in the same way. Pike, grayling, chub, roach, perch, and other fresh-water denizers, also provide good sport for gentle and simple in the right haunts, and Waltonians age to-day inore numerous than ever Some of the best known books on angling are Walton's Computar Angler, Francis's Book on Angling, Foster's The Scientific Angler, by W. E. Hodgson, Trout Fishing and Salmon Fishing, by the same author, The Game Fishes of the 10 rlin, by Dr. Francis C. Holder, and, for the antiquarian, the Book of St. Albans, published by Wynkyn de Worde in the 15th century. See also Pears' Dictionary of Sports and Pastimes, pp. 857-882.

Anglo-Japaneae Treasty, signed in 1902, and renewed in 1903 and 1917, aims at maintaining the rights of the possessions of the two countries in Asia, the integrity of India, and equal trading rights with China and Korea, each country undertaking to assist the other in case of its rights being attacked.

Angora goats are famous for their fine, long silky hair, from which mobals lizards of the Scincidm tanult, michulang the slow worn. was a fairly complete description of the sport.

Anguis, a genus of limbless lizards of the Scincidæ family, including the slow worm.

Aniline, a well-known product obtained from coal tar. In some of its reagents it yields brilliant colours. In 1858 Sir W. II. Perkin succeeded in producing from aniline a dye-stuff to which the name of mauve was given. From that time aniline dyes came into wide adoption, and at the present time aniline can be utilised for every shade of colour desired. For the utilised for every shade of colour desired. For the dyeing of fabrics, aniline colours are universally employed, also for coloured inks, timing pulps, coloured soaps, cosnetics, and a host of other industrial purposes. Most aniline products were obtained from Cermany before the war, and afterwards became so difficult to obtain from other sources that the Government took the matter up and to a large extent guaranteed a new company that was formed for dealing with the difficulty.

Animaloule is a term used to designate the myriads

of minute animal creatures which are too small to be seen except by the aid of the microscope. These organisms exist in such vast multitudes that a single

organisms exist in such vast multitudes that a single drop of water will reveal enormous numbers.

Animal Heat arises from the oxidation, within the physical tissues, of food consumed. It has been estimated that an adult man produces in twenty-four hours enough heat to boil five or six pluts we'water. The temperature of the blood is much affected by metion as wall as food. Mental work reduces the hour In temperature or the blood is much anected by motion as well as food. Mental work reduces the heat slightly. The temperature of the atmosphere has little appreciable effect upon the body's licat when the coudition is healthy. It is possible to keep life together when the internal heat falls so low as 75° Fe. and even to be saved from death with the temperature at 1rg F. Cold-blooded animals—reptiles, fishes, amphibians, and invertebrate creatures—have the temperature of their surroundings, and may be frozen and still live if the wed.

Animal Kingdom. comprises all living beings, but in some of the lowest organisms it is difficult to discriminate between what is vegetable and what is animal. The two main divisions of the animal world are the Vertebrates, those possessing a backbone, and the Invertebrates, which are without. There are five the Invertorates, which are without, a greeness are classes of Vertebrates—Manumalia, such as suckle their young: Aves, birds; Reptilua, reptiles; Amphibia, animals living on land or water at will; and Pieces, fishes. The Invertebrates include: Amphibia, animals living on land or water at will; and Pieze; fishes. The Invertebrates include; Protozoa, the lowest forms of anumal life; Callenterata, of which the hydra and the sea-anemone are examples; Anuntoida, star-fishes, etc.; Anuntosa, comprising insects, the lobster, spider, etc.; and the Molissoa, including snails, the oyster, the mussel, etc. Animal Magnetism. (See Hypnotism.)
Animals at Bea. Most animals are difficult to deal with at sea, and give violent vent to their feelings until sea-sickness brings silence. The tiere suffers

until sea-sickness brings silence. The tiger suffers most of all Elephants do not like the sea, but are most of all Elephanis to not me the cost of water amenable to treatment, a bucketful of hot water containing three and a half pints of whisky and seven ounces of quinime being occasionally administered. Oxen are heroic in their attempts to overcome sickness. Horses often perish on a sca voyage. The only animal that seems to be comfortable at sea is the polar bear. Of course, domesticated animals, such as dogs, cats, etc., make good enough sailors when once they have overcome their first sickness.

Anima is a transparent resinous substance exuded from the courbant tree, and receives its name because of its being alive with insects in its natural state, Used in perfumery and varnish making. It has also medicinal properties.

meticinal properties.

Animiam, as defined by Sologists, is "the general doctrine of souls and other spiritual beings,"

Antee, an umbelliferous plant growing mostly in warm climates, and valued for its fruit, aniseed, possessing certain medicinal preperties and yielding a volatile oil. Highly aromatic and used as a condiment for pickles and soups.

Anna, an Indian coin, one-sixteenth of a rupee in

value.

Annais, or historical records, were kept by the Romans from an early period. In modern times the term is used to designate any general record of events arranged according to years.

Annaiss were acknowledgments formerly paid by way of fee or tax in respect of ecclesiastical preferment, and consisted usually of a proportion of the income feight founds.

income (first-fruits) of the office.

Annealing is the process of slow cooling of glass and metal substances by which their brittleness is removed, and they become capable of resisting breakage. Some large castings are gradually cooled over a castled of two as threatmenths.

a period of two or three months.

*Annual Register," a yearly record of events, started by Dodsley in 1759, and for a time compiled

by Edmund Burke.

by Edmund Burke.

Anunciation, Feast of the (March 25), is a church festival commemorating the message of the incamation of Christ brought by the angel Gabriel to the Virgin Mary, hence the title Lady Day.

Anodyne is a term covering any application for the relief of pain, and includes the varous opiates, quinine, salicylate of soda, and such familiar applications as poultices, fomentations, besides counter irritants like mustard plasters, aconite, chloroform, etc.

etc.
Anointing is the pouring of consecrated oil upon the
body as a mark of supreme honour. In England it
is a ceremony restructed chiefs to the ceremony of
the monarch's coronation, and the spoon with which
the oil is applied forms part of the English regalia.
In the Roman Catholic Church anointing represents

the sacrament of extreme unction.

Anomaly is a term used in Astronomy, for the angle measured at the sun between a planet in any point of its orbit and the last perihelion.

Enonymous. without name, indicates that a book or gricle is published without the author's name being divulged.

Inser, a genus of swimming birds, the most familiar example of which is the goose.

Ant, an insect of the same order as bees and wasps (Hymenoptera). Ants live in communities under a well-defined system, and comprise males, females, and neuters. When the male and female, which are winged, leave their nest and pair, the male dies and the female sheds her wings and is made queen of a new community. The neuters comprise a working and a defending holy as well as a hand of slave. new community. The neuters comprise a working and, a defending body, as well as a band of slave ants, captured from another species. As in the case of the bees, the work of the auts consists in the storing up of provision for the future, and their ant-billis

ing up of provision for the future, and their ant-hills contain a regular series of passages and storehouses. They feed on both animal and vegetable matter, and upon a kind of mills exuded by plant-lice.

Antaolds, agents designed in medicine to diminish acidity in the system by increasing its alkalunity.

Antaoctic Zone, comprises the Antarctic Circle, parallel to the Equator, about 2.15 from the South Pole. Captain Scott, whose return from his Descence of Pole. Captain Scott, whose return from his Discovery voyage in 1904, penetrated 300 miles further than any previous exploirer. Shackleton, in his Nimrad expedition in 1904, reached a point only 97 geographical and 111 statute miles from the South Pole. The Pole was first actually reached on December 14th, 1911, by Captain Foott and his party arriving there on January 18th, 1912, and dying from exposure on the return journey. (See South Captain, Shackleton, Sir E., and Eawson, Douglas, Prominent People Section.)

Antester, a manimal found in South America and South Africa. It possesses a long, cylindrical tongue, coated with a viscal secretion. This tongue

South Africa. It possesses a long, cylindrical tongue, crated with a viscid secretion. This tongue it thrusts into anthills and draws it forth covered with ants, which it devours. The American species is toothless; the African has moiar teeth.

Antediluvian, applies to fossil evidences belonging to a period prior to human record, and is commonly

regarded as indicating a time prior to the Deliuge.

Antelope, a large zoological genus of mammalla, mainly deer-like and elegant annuals, with lustrous eyes; feet of foot, and widely distributed.

Antenna, feelers of insects and crustaceans, usually where he ceres or meets and crustaceant, usually two in minuber, though in the case of certain wingless insects, four or six. Their precise functions are authorough but it is probable the y serve some purpose additional to that of taculity.

Antherm. a cloral composition, with or without npaniment, usually sing after the third collect in the Church of England service. The words are from the Scriptures and the convention.

words are from the Scribures, and the composition may be either for solo voices only, full choir, or both. Among the chief English composers of anthems are Tallis, Purcell, Croft, Boyce, Goss, and Stainer.

Anthology is the figurative term used to describe a selection of collection of

selection or collection of literary compositions, usually poems or lymns. The first Greek Anthology, comprising the choicest pieces by Greek classical poets, was compiled by Melesger, about 99 St.C. The Latin Anthology was made by Burman

Anthracite is a hard kind of coal which burns without

Anthracite is a hard kind of coal which burns without fame, and contains unwards of go per cent, of carbon. Pennsylvania is the largest known authracite coal region. The next largest field as in South Wales.

Anthropoid, meaning "resembling man," is the term employed to designate the order of apes whose structure has similarity to that of man. The gorilla, orang-outang, and chimpanizee are of this order, and, in number and general form of limbs, and physical organism generally, bear a nearer resemblance to human beings than any other creatures. Ou this fact much of the Durwinian theory has been built.

Anthropology is the science which reveals man's

much of the Luminian theory has been bunt.

Anthropology is the science which reveals man's place in nature, and describes the mental and physical peculiarities of mankind—a science which owes much to the researches and expositions of Darwin, Wallace, Spencer, Huzley, Lyall, and Haeckel in modern times. It is a branch of study that assumes greater importance every year, and at the annual meeting of the Anthropological Section of the British Association the most eminent scientists of the day set forth their views. There is also an Anthropological Institute in London. Anthropometry is the system of human' measurement usented by M. Bertillon, of the French Criminal Department, for purposes of establishing identity. In this connection the evidence of hinger prints has been applied in numerous recent criminal cases with complete success.

Anthropomorphism is the application to the Delty of the attributes of man, a form of belief which belongs more or less to all religions, for the reason that man is incapable of imagining beings of a higher form

than his own.

than his own.

Antiburghers, a Scottish sect which arose in 1749, many members of the Associate Synoid declining to take the oath exacted as a criterion of burghership in Edinburgh, Glasgow, and Perth. Mainly now merged in the United Presbyterian Church.

Antibhlop is a sunstance used in paper-making to free the pulp from the injurious after-effects of chlorine.

Antibhrist, the name given to the enemy of Christ, as mentioned by St. Join, and long anticipated by the early Christian.

the early Clinistians.

Anticlimax is the reverse of climax, introducing

the strong point of a story or argument before the close instead of reserving it for the end.

close instead of reserving it for the end.

Antilegomena, the books of the New Testament which were not accepted as canonical by the early Christian churches, though afterwards admitted to equal authority with the rest. These were the Episite to the Hebrews, the Episite of St. James, the Second Episite of St. Petr, the Second and Third Episites of St. John, the Episite of St. Jude, and the Apocalypse or Revelation of St. John.

Antimony, a crystalline metal of great brittleness. On being burned, it gives off dense fumes of oxide of antimony. By itself it is not of special utility; but as an alloy for hardening other metals, it is much used. As an alloy with lead for type-metal, and with in and copper or zinc for Britanna-metal, it is of great value. All antimonical compounds are polyonous.

Antinephritie, a medicine combative of kidney diseases.

Antinomians were members of the early Christian communities who claimed initionity from obedience to the "law," on the protext that faith alone was sufficient to secure salvation. Luther used the term to describe certain religionists of his own day who tovoured the same views.

Antipathy. when it arises in connection with things that do not roumonly excite unfavourable feelings, is often caused by shock or fright, and may be either in regard to things seen, heard, or suelt.

Intlibeon yours in connection with psalmody, and consists in the alternation of parts by two different

sets of voices of a choir or congregation.

Antipodes, the parts of the earth exactly opposite to our feet, having seasons, etc., at exactly opposite tunes to ours. Thus the North Pole is the antipodes of the South, and New Zealand the antipodes of England.

Anti-Semitism, a modern revival of the old-time Inti-Semitiam, a modern revival of the old-time latred of the Jewsh race, confined mostly to Germany, Austria, and Russia and sometimes marked by violent and unjustifiable outbreaks. In Russia especially the Anti-Seimtic feeling has been attended by great cruelty, and thousands of Jews have been driven to take refuge in foreign countries, many of the poorer class of Jews coming to Britain. Beginning as a political movement intended to keep the rich Jews from obtaining ascendency, it has spread far beyond political boundaries. For the protection of persecuted Jews the late Baron Hirsch started a scheme for transferring large numbers to new countries and endowed it with a sum of £0,000,000. See Zionism.

to new countries and endowed it with a sum of 6,0,00,00.00. See ZiOnism.

Antiseptics, the term applied to substances which destroy or weaken microbes, bacteria, or germs, and often arrest the spread of diseases caused by those minute putrefying agents. Among the chief antiseptic substances are carholic acid, corrovive sublimate, or perchloride of mercury. In the case of water, milk, or other liquids, holling is the aimplest antiseptic.

Antithesis is a form of expression which deals in opposites—as contrasting the light with the dark.

good with evil, and so on—and is often recorted to by eminent writers with effect. Antitrinitarian indicates one who denies the

Antitype, that which agrees with or fulfils the type: as Christ was the realisation of the Paschai lamb.

Antiers are the horns of deer, and, except in rein-

deer, are restricted to the males.

Aorta, the main trunk of the arterial system, in direct communication with the heart, and from which

all the other arteries spring.

packes, a tribe of Red Indians, formerly ferocious, and spread over the Mid-Wast of America. A name also given to a set of lawles, and violent people in Paris.

Apatite, a widely distributed inneral consisting mainly of phosphate of hine, and useful in promoting vegetation.

Ape, a term applied to monkeys generally, and covering the whole group of primates between man and the lemurs.

Aphelion, the point in the orbit of a planet farthest from the sun, where the motion is slowest.

Aphengescope, a modified magic-lantern for the exhibition of opaque objects.

exhibition of optique onjections species of destructive parasites living on roots, leaves, and plants.

Apis, the sacred bull worshipped by the ancient legytlans; also the scientific name for the bee.

Apionite, a mineral contuning much sulphuric and, occurring in white spheritorium or fibrous masses.

actic, occurring in white resectorin or abrous masses at Lagoa Bay, in South Africa.

Apiyata, a genus of molluse, with an oblong translucent and fexible shell, popularly called sea-hare, and inhabiting the laminarian zone. They have four tentacles, and discharge a violet fluid on molesta-

ton. Some species are found in British waters.

Apocalyptic Number, the mystical number 6%, mentioned in the Apocalypse,

Apocalyptic writings are those which deal with

revelation and prophecy, more especially the Revelation of St. John

tion of Sc. John

Apochromatic object glasses are prepared so as
to destroy the second residuary spectrum

Apocrypha, the title given to the Hebrew writings,
not regarded as canonical by the Jews, but received
by the Roman Catholic Chinich. Regarded as only
historical records by the Protestant Churches. The term applies mainly to the additional Okl Testament books, but there are also some Christian writings of the same character. The Apocyphial books incade r and a Extras. Tobit, Judith, Exther x.-a-xv, and the Extras and Bruch, Song of the There Holy Children, Bel and the Dragon, the Frager of Manasses, and 1 and 2 Maccabecs

manasses, and r and 2 Maccalees.

Apodea, the point in the moon's orbit at the greatest distance from the earth.

Apollinarians, followers of Apollinarius, Bishop of Laodicea, who lived in the 4th century, and denied the humanity of Christ. Condenmed as heretics.

Apologetion is the branch of Theology that defends.

Christianity from external attacks, Natural Theology

Christianity from external attacks, Natural I neology and Revealed Theology.

**Postasy is a revolt, by an individual or party, from one form of opinions or doctrine to another.

**Postolic Council, held at Jerusalem, A.D. 52, presided over by James, to decide what the obligations of Christians were to the Mosaic law.

tions of Christians were to the Mosaic law.

Apostolic Fathers were the immediate disciples
of followers of the aspostles, especially such as have
efft writings behind them, including Barnabas,
Clement, Hermas, Ignatius, Polycarp, etc.

Apostolic Succession is the derivation of holy
orders by an unbroken chain from the Apostles,

and the succession of the ministry to the powers and privileges of the Apostles.

Apotherary, one who prepares and distributes drugs. In 1805 the Apothecares' Company of the City of London obtained the privilege of examining and licensing all the apothecaries and sellers of drugs throughout England and Wales.

Apotheosis was the Greek term for the inclusion of a mortal among the Gods. Divine honours were accorded to Julius Casar and Augustus.

Apparitions indicate supposed supernatural ap-

pearances, and were much believed in by the primitive races. Even now there are many who have faith in spiritual manifestations, but science

nave ratio in spartinal mantesizations, our science regards them as but creations of a disordered brain.

Applan Way, the oldest of the Roman Roads, originally laid by Applies Claudius from Rome to Capua, and afterwards extended to Brundusium.

Apple is a semicircular rocess situate at the east end of the choir or chancel of early churches, and vaulted

over.

over.

Estary*, a large wingless New Zealand bird of the ostrich order, valued for its skin.

Aquartum, a vessel, or building, devoted to the collection of marino or fresh water animals. Some quarter of a century back large buildings were erected at Brighton, Scarborough, and many other seaskle resorts, as well as in London and numerous inland towns, to which the title of Aquarium was given; but, a precent years these buildings have for the most part been turned into mere pleasure resorts, the proper aquarium element being neglected. The Brighton Aquarium, however, still maintains to a great extent its original character. The Westminster Aquarium was purchased by the The Westminster Aquanum was purchased by the Wesleyans, and the site is now set apart by that body as a great metropolitan church centre.

body as a great metropolitan church centre.

Aquatint is a method of etching on copper, by which initiations of drawings in water-colours, Indian ink, basie, and sepia are produced.

Aqueducts were known to the Greeks, but were perfected by the Romans. There still exist several Roman aqueducts, including the Aqua Jula, constructed under Vijisarius Agrippa, and the Aqua Felici, restored by Pope Sixtis V. Among modern aqueducts may be mentioned that of Glasgow, which brings water to that city from Loch Katrine; that of Manchester, which taps Thrilmere; and that of Liverpool, with Lake Vrinwy in North Wales as its source. its source.

Arabasque, the term applied to the elaborate decorations introduced into Furope by the Spanish The arabesques of the Vatican galleries, by Raphael, form a splendid example.

Raphae, 10rm a spendin example.

Arabian Nights, a collection of fascinating tales of the Orient, of mixed Indian, Persan, Arabic, and ligyptan origination, and first made known in Luiope by Antoine Galland, a French Oriental scholar whose original translation was called The Thousand and One No. Mas.

Arabic Numerals were introduced into Europe by the Arabs in the 8th century. They consist of the characters, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and after the introduction of printing came into general use, being much simpler than the Roman numerals.

Arachnida, small articulate annuals, including spiders, scorpions, etc., without antennie or wings. and placed between crustacea and insecta.

Aramalo, the language of the Aramelans or Syrians,, the common dialect of those trading people in the 1st century A.D.

raucaria, a kind of cone-bearing tree of the pine family, distributed over various parts of the Southern hemisphere.

Arbalast, a steel crosshow set in a shaft of wood and worked with a trigger, introduced by the Normans

Arbitration, General. (See Arbitration in Dictionary of Business Section)
Arbitration, International. In recent times replication, International. In recent times many attempts have been made to decide international disputes by the means—sometimes with success. The Palace of Peace a the Hague (the gift national disputes by this means—continues with success. The Palace of Peace a the Haque (the gift of Mr. Andrew Carnegie) inangurated in 1973, is specially dedicated to the cause of peace and international arbitration. One of the most prominent of international arbitrations was that in 1872 netween Great Britain and America concerning the "Alahama" claims. Numerous general arbitration treaties have been entered into between other countries; and England and France, and England and America have in recent times arranged long outstanding frontier and other disagreements in this way. At the Amous Conference at the Haque in 1899, suggested by Russia, an international arbitration scheme of extensive powers was approved, and may ultimately lead to something more humane than the arbitrament of war, though it was not considered sufficient to deal-with the disputes which brought on the war between Russus and Japan in 1904. As an incident of this conduct, however, there is the arbitration on the Dogger Bank ouringe to refer to, which settled a difference that might otherwise have led to war between Envision and Russia. between England and Russia.

Arbor Day, a day devoted to promoting the growth of trees. First adopted in Nebraska, but now the movement has spread to all parts of the American

Continent, and to South Australa. In some parts of the American of Eagland also the idea finds favour. Subbor Witam is the name given to the tree-like appearance of the cerebellum when it is cut through due to the atrangement of the white and grey nerve matter. Also the name of a cone-bearing plant of

matter. Also the name or a conte-nearing plant or the cypress order, possessing medicinal virtues.

Frondia, a district of Peloponnesus (Morva) whose inhabitants in the days of the Pelaggi were of extreme simplicity, and the term has ever since been used to denote an idealised country of primitive things.

From was introduced into architecture by the Komans,

and was thereafter widely adopted in relief to the

straight-line methods of Greece.

Archmology deals with the relics of ancient times constructing historical deductions, and ascertaining the manners and customs of past periods, their from.

Archmopteryx, a bird which is supposed to show

the connecting link between reptiles and birds, its fossilised remains revealing some of the characteristics of both orders.

Archaism is a rhetorical term, denoting a style of composition or discourse of an obsolete or anti-quated kind, admissible in poems and other writings of a highly idealised or allegorical form, but otherwise out of place.

Archbishop, the title of the two highest dignituries of the English Church the Archbishop of Canterbury, called the Prunate of all England, and the Archbishop of York, styled the Prunate of England.

Archil, a purple pigment, chained from a species of lichen, and changing to red by application of acid. Architecture, or the art of bulkling, is of three main classes—nultary, naval, and civil—the general application of the term being to the last named. The five leading orders of architecture are the Deruc, the oldest, of which the best examples were shown in the Greek temples; the louic, another Greek variety, lighter and more decorative, as shown in the Erechtheum at Athens; the Coruthian, introduced in the time of A'sander the Great, well known by its graceful columns and enralments; the Tuscan, which the Romans invented—a solidified Doric; and the compassie, which com-bined the leading features of the 'onic and Corinthian. As exemplified in modern times, more especially in England, architecture is exceedingly varied in form, but between the 6th and 17th centuries we get at least six distinctive styles. First, the Saxon and Norman; next the Senn-Norman; then the Early First, the Saxon and English or Gothic (of which Westmanner Abbes and Son Minister furmish prominent examples): the Decorated English: the Perpendicular English (15th century), and the Debaced English (1500 to todo). During the early Sturrt period there was the Renaissance, style which obtained a strong footing. Then we come to the Queen Anne style, which is of a more domestic order; and in later times there has been a revival of nearly all styles, sometimes in their pure form, but more often presenting an adaptation or combination of styles. Away from these well-known styles, we have more primitive examples in the architecture of the earlier nations—Egyptian, Assyrian, Etruscan, Persian, Chinesce, and Jewishnall possessing more og less individuality of feature, the result partly of local, climatic and other requirements, and also of some special artistic evolution.

Arctic Exploration dates from a very genote peried, King Alfred relating stories of early Polar stpeditions, but it was not until the 16th century that men began to make venous attempts to discover either a North-west'er North-east passage. Sir Hugh been a revival of nearly all styles, sometimes in their

Willoughby, Davis, Chancellor, Baffin, Frobister, and Renry Hudson were the most famous early explorers. The Company of Merchant Adventurers and the Hudson Bay Company were promoters of such schemes, and all through the sah century attempts were being made to penetrate the Polar regions. In 1818 George III. offered a reward of £30,000 to any one who should make the Northwest passage, and Scoresby, Ross, Parry, and Franklin all became associated with Arctic expedi-tions. Ross and Parry went out in 1818, and then came Sir John Franklin in 1844 expedition in 1845. When Franklin in 1845 to return and no news 1845. When Franklin failed to return and no news could be obtained concerning him, a number of search expeditions from Great Britain and America could be obtained concerning min, a manner or search expeditions from Great Britam and America were undertaken. Kennedy, McClure, Rae, Belcher and McClintock in turn succeeded in making important discoveries, and evidence was found of the perishing of Franklin and his crews. Lieutenant Greely made an important expedition in 1881–1882, and those of Nares and Markhan added to our knowledge. Dr. Nancen's crossing of Greenland in 1888, and his subsequent journey with the Fram in 1893–1896, were memorable events. Nansen and Lieutenant Johan-en, with two kayaks and a number of dogs, teached 36° 14' N., 200 miles nearer to the Pole than had been reaghed before. The expedition verified the theory that there was a current flowing across the Polar region from the New Siberia Islands. Mr. Jackson discovered a large open sea, and Lieutenant Peary in 1902 found it covered with ice. The latter rounded the north part of Greenland. in 1900. in 1902 found it covered with ice The latter rounded the north part of Greenland in 1900. H.R. H. the Duke of the Abruzzi's expedition, under Captain Cagni, in 1800 reached 86° 33', 22 miles farther north than Nansen. In 1906 Commander Peary got within 201 miles of the Pole, the American thus approaching nearer by 35 miles to the objective than the lowerer of Nansen's north record. In September, 1909, however, the world was startled by September, 1900, however, the world was startled by the news that Dr. Cook, an American explorer, had actually reached the Pole, but later evidence does not substantate this. This was followed closely by the amountement that Peary had also planted the Stars and Stripes at the Pole, and the Commander has since published a full description of his discovery. The first International Congress for the study of the Polar Regions was held at Prussels in September, 21,001, and steps were taken for the constitution of a permanent universal association for the purpose of concerted organisation of further explorations in the Arctic. (See Antanotic Sone.) Zone.)

Argali, a kind of wild sheep found in Siberia and the Steppes of Northern Asia generally, by some considered to be identical with the dieshon of the Pentateuch.

Argillaceous Rocks are a sedimentary group, in-

cluding the shales and clays, into the composition of which aluminium largely enters. Argon, a chemical element discovered by Lord

Rayleigh in 1894 in the nitrogen of the air.

Rayringn in 1904 in the nitrogen of the air.

#genaut (Paper Nautius), an aquatic animal of the cuttle-fish order. The femules have a fine shell.

#rinaism, so called after Arius of Alexandria, who denied Christ's divinity and caused the Emperor Constantine to summon the Council of Nice, 255 A.D.

#ricine, an alkaloid contained in the bark of arica, and also in the theory of the property of the control of th and also in Cinchona ovata.

Aplea, the Ram, the first of the signs of the Zodiac.

Arion, the horse of Adrastus in Greek mythology, which was said to have the gift of utberance and of prophecy, and figured in the Theban war.

Arthumstic did not fourus to any greek extent until the adoption of the Arabic numerals. It is

supposed to have originated as a science in India. The system of the Greeks and Romans was sem-

plicated, and it was not until the roth century has the science reached any great development. The of the Governant was the sacred chest, over-laid with gold, which occupied the inversancium of the Temple, and symbolised God's covenant with

his people. Francia, Spanish, has reference, in this country,

specially to the naval expedition fitted out by Philip II. of Spain in 1588 against hughfard, commanded by the Duke of Medina Sidonia. Incomprised 139 ships, of which 65 were each of more than 700 tons; it was manned by 5,000 sailors and carried 19,000 soldlers, and more than 2,000 cannon, with food for 40,000 men for six months. Against this formidable force Elizabeth had only 80 ships manned by 5,000 sailors, under Lord Howard of Effingham, under whom served Drake, Hawkins, and Frolisiler. The British Fleet awaited the Armada off Plymouth, and at Tilbury was a considerable defensive land force under the command of the Earl of Leicester. On Inly 10, the ships of siderable defensive land force under the command of the Earl of Leicester. On July 19, the ships of the Armada were sighted off the Lizard, disposed in a crescent sever infles long from hom to hom. The excellent maneuvring of the Finglish, their firships, and a gate from the N.W. combined so effectively to cripple the Spanish ships that at length the Armada was scattered in helpless confusion, but a very small remnant contriving to reach home. Elizabeth had a medal struck, bearing in Latin the inscription "God blew, and they were scattered."

Armadillo, a genus of animals belonging to South Amierica, and carrying a hard bony covering over the back, under which the animal can completely conceal itself when attacked, rolling steeff up like a

conceal itself when attacked, rolling itself up like a

heigehog.

Armageddorf, according to the Revelation of St. John, the great battle in which the last conflict between good and evil is to be fought.

Armature, the portion of an electrical dynamo consisting of wire coils, so arranged as to give when rotated an increased flow of electrical energy.

Armet, a helmet of metal worn in war by the French,

Armies, a helinet of metal worn in war by the French, in the 13th and two succeeding centuries.

Armillary Sphere, an astronomical apparatus with circles representing the equator, ecliptic, etc., arranged round a glotte, in their relative positions.

Arminlaniam, the doctrine of Jacob Harmensen, who was born in Holland in 1500, especially directed against Predestination, but less austerely logical than the dogma of the early Reformers

Armines and Legiess M.P. The late Mr. Arthur MacMurrough Kavanagh, who in the eighties of last century was an arrive legical true.

of last century was an active legislator in the House of has century was an active regission in the rouse of Commons, was horn without arms or legs, and is remembered for more than his very able champions ship of the cause of the Irish Landlords. He was famed as a yachtsman and horseman, and travelled no horseback across Russia and Persia to the Persian Gulf. His riding with the Carlow Hounds is still remembered with wonder amongst the country-folk, and with the pen held between his teeth he wrote a good "hand

Affiniet, a bracelet worn on the upper arm in the East as part of the usignia of royal rank and power.

Armour, protective covering worn by those engaged in military pursuits, and consisting of a great variety of pieces and material, from hauberks of mail to a

complete panoply of plate.

Army.—An organised equipment of land forces for carrying on the work of war. Legypt had such an organisation under Besostius, 1600 B.C. The Persians later on were similarly equipped, but it was Persians later on were similarly equipped, but it was left for the Romans to bring into operation an immense regular army in which every citizen between ry and 45 was compelled to serve. The Turks were the first among modern European nations to create a standing army in the 14th century; and Charles VII. of France had a force of century; and chartes value in Flance has a roce of agono trained soldiers. There was no Droper standing army in England until the reign of William III. In 1691 an Act was passed authorising a force of 6c.000 men, and although this number was afterwards greatly reduced, whenever war broke out the regiments were added to, and England had soo,000 men in the field during the War of the Spanish Succession. There was no regular barrack-Soo,000 literi me soo,000 lite peace, when army matters were neglected. With

however; and Parliament began to devise improved army schemes. A Volunteer and a Millita auxiliary force had been organised, and in 1872 Lord Cardwell effected a revolutionary change with his*system of localisation, linked battalions, short sergice, and the abolition of purchase. Further improvements were introduced later; but in the Boer War of 1899-1902 we were once more unprepared, and had to pay the penalty in frequent loss, humilitation, and defeat. Then was Mr. Brodrick's Army Corps scheme devised, but it did not work out well; and still another plan of army reorganisation was evolved in 1904 by Mr. Annold Forster, which provided for a total "paper" strength of 997,684 men. A new Army Order was issued on January x, 1907, by Mr. (now Lord) Haldane, then War Secretary, providing for the allocation of all regular troops to a particular however; and Parliament began to devise improved the allocation of all regular troops to a particular command, and giving the station of every unit in the British Army. The organisation for war of the field British Army. The organisation for war of the field army for service abroad is one cavalry division (of four brigades); six divisions; Army troops; troops for a line of communication. The Haldane reform four brigates; six divisions; army troops; troops for a line of communication. The Haldane reform provided for eight areas of command, each containing on the peace footing its complete proportional quota of the forces. Before the war (1914) the British Army had a strength of 71:755 effectives, but by April, 1915, we had about 750,000 lines at the front, while the expulsives of two reputs of Artille 1916. by April, 1915, we not about 750,000 lies at the front, while the casualties of 130,000 up to April 17, 1975, had been made good So from month to mouth the augmenting of the army has continued, and at the present time (May, 1015) the British Army has on active service and in training over 2,000,000 men. All the overseas dominions (including India and South the overseas dominions (including India and South Africa) have helped noilly to swell the number. To-day we possess the largest voluntary army ever got together, but the cry on all sides is still for more men and more munitions, and our whole national resources are being drawn upon for the task. The German army with which the Kaiser ruthlessly broke, the peace of Europe, regardless of the Sanctity of treaties and the rights of neutral nations, was the greatest fighting machine the world has ever seen, the outcome of a stead; preparation of over forty years for winning the domination of land and sea, and of a determination to thrust Britain out of its place among the nations. In addition to its equipment, however, it has resorted to the utmost lawlessness, harbanty, and cruelty in its operations, destroying neutral ships and civilian passenger, with a reck-lessness that sets all law and humanity at defiance. In this it has stained its record for all time to come, In this it has stained its record for all time to come, and set an example that, if followed, would bring about universal war. That the armies of the Allies have been able to cope successfully with this force and savagery is splended resumony to the patriotic spirit which has animated the Allied Armies. France, Germany, Austria-Hungary, and Russia practically require every gible-bodied man to be subject to service. The standing army of the Umted States is fixed at a maximum of 100,000 enlisted men and a manimum of 6,000, with voluntary enlistment and a five years service. But, of course, any of these nations can, on an emergency, call up any of these nations can, on an emergency, call up an army of efficients far in excess of its peace strength.

Arnica, the name of a genus of plants of which the dandelion is a leading example.

Arnotto, a reddish-yellow dye obtained from the seeds of the Bixa orellana, a South American plant. It is employed for colouring cheese and butter, also

it is employed for colours: these and butter, also in chocolates and sours; and a preparation of the pigments unparts an orange tint to certain variables.

Arpeggio, in music, indicates the striking of a chord or notes in rapid succession, instead of simultaneously.

Arquebus, one of the earliest forms of firearms.

The piece was discharged by a match applied manually to the touch-hole, and later with a trigger. AFFACK is the East Indian name for distilled spirit

generally, but especially for that made from the fermented juice of the cocca-nut or from rices

Arragonite, a mineral consisting of carbonate of lime in a crystalline form, sometimes found lime in a crystalline form, sometimes found purc, and sometimes mixed with other metals in minute quantities. Crumbles to powder under heat. First discovered in Arragon.

Arrowroot, obtained from the rhizomes of the tropical maranta, also from the rotate and the arum.
It provides a pure starch food, suitable for invalids.

Arsanals are repositories for storing, or workshops

for making, arms, guns, accourrements, stores, etc. The chief English arsenals are at Woolwich, Dept-The Chirt English arsenas are st wowth, Depth ford, Chatham, Pembroke, Sheerness, Portsmouth, and Plymouth: the chief arsenals of France are at Cherbourg, Brest, Toulon, L'Oneut; of Russia at Kronstadt and Sevastopol; of Cermany at Danzic and Wilhelmshaven; of Italy at Spezzu.

Areanto, a chemical element, by some regarded as a metal, of a crystalline and brittle nature, usually met with as a constituent of other minerals, but sometimes by itself. One of the most virulent of our poisons.

meanines by seein. One of the most virtuent of our poisons.

Presalan Wella—so called because of their first being discovered at Attois—are borngs made through strata which water cannot permeate to others of a porous kind which are full of water. The fountains in Tratalgrar Square are fed by artesian wells sunk through the London clay into the chalk about 400 ft. At Passy, near Paris, there is an artesian well 1,033 ft. deep, and at Grenelle sue about 1,800 ft. They are very valuable in countries where agriculture depends on irrigation. At St. Louis, Missouri, there is one 3,843 ft. deep; and one in Western Queensland reaches the depth of 4,000 ft.

Articles. This term is variously applied. The Six Articles are those contained in an Act of Henry VIII., upholding Transubstantiation, Clerical Celibacy, Anticular Confession, and other doctrines

Henry VIII, upinding transuction and other doctrines of the Reformation put in their proper place. The Thirty-Ninessricks comprise the doctrines of the Anghean Established Church, and must be sub-

the Anghean Established Churen, and muss scribed to by all taking holy orders therein.

Artificial Bunshine. A scientific station or botanical laboratory has been established at Wisley, near Weybridge, devoted to the growth of plants by the statement with the sea substitute for sunshine. The fact electric light as a substitute for sunshine. The fact that artificial light enables plants to grow and fruits to ripen has long been known to men of science. In 1870 and 1850 the late Sir William Stemens made some successful experiments in this direction at Tumbridge Wells. More than 40 years ago M. Hervé Mangon discovered that flowers turned towards the electric lamp just as they turn towards the sun. Many experiments have been made in France, America, Russia, and elsewhere, and beyond doubt simulated suishine can be used with good effect.

Artillery, the science and art of gunnery; the implements of war employed therein; and the men imprements or war employed therein; and the menosituting the military corps in charge of the cannon of an army and trained to their use. In the British Army the artillery force is divided into the three sections of Harge, Field, and Garrison Artillery, The headquarters of all are at Woolwich, as is also the Royal Military Academy, through which pass the cadets who later become artillery officers.

Arum, a genus of plants of the Aracez order, of which there is but one British species, the wakerobin or cuckoo-pint, sometimes also styled "Lordand Ladies." Its pointed leaves and spikes of scallet berries are familiar hedge-side objects. The latter are poisonous. In Switzerland the rhizomes are accusated by the constant of the state of the are employed by the pensantry as substitutes for some; and with the pronouncedly acrid fluidity

soap; and with the prenounceury acric minutes very respect, are capable of conversion into a flour that may be utilised in lieu of or for admixture with corn meal. This resembles arrowroot.

Arundal Marbias, a collection of ancient sculpture formed by Thomas Howard, Earl of Arundel, in the 17th century and presented to Oxford University by the reservice. his grandson. Henry Howard, who became Duke of Norfolk. The most renowned seature of the collection is the "Paran Chronicle," a fragment of an inscription containing some important dates in

Greek history between 1583 and 203 B.C.

Aryan is a term used to denote the lingual and ethhological groups otherwise known as Indo-European or Indo-Germanic. Comprises two branches, Western er European, and Eastern or Armenian. The Aryan

languages show common origin by their vocabulary, syntax, and inflexions. The word Aryan, derived from the Sanskrit, means an "houorable lord of the irouthe Sanskiit, incans an "holorathic ford of the soil"; the nearest to the parent tongue is Sanskrit, and the chief divisions in Europe are the Teutonic, Romance, Slav, and Celtic. The Turks, Magyars, Basques, and Finns are non-Aryan. The common ancestors of the Aryan groups dwelt among the Pamirs at a period of remote antiquity.

Esanatida, a well-known drug made from the juice of plants of the Limbelliform order including selection.

of plants of the Umbelliferæ order, including celery, parsnip, etc. Has a very offensive odour.

Asbestos designates a feculiar form of mineral, oc-

curring in crystals in pyrosene, and, massed together, is fire-proof. Found in Conwall and some parts of Scotland, but the finest comes from Savoy, and it is also abundant in Canada and Tasmania.

Ascension Day, or Holy Thursday, is the 4oth

day after Easter.

day after Easter.

#soaticism was originally the term applied to the training by Greek albletes. Afterwards the Stock and others used it to express the mastering of the passions. Later the idea passed into Christianity, and from celbacy and abstimence was carried to terrible lengths in the way of self-mutilation, forture, and human sacrifice, enthusiasts vying with each other in self-mortification. The chief manifestations of Asceticism in modern times have been Mordisticism and the various forms of personal humiliation, fasture meaning all the present. fasting, penance, pilgrimage, etc., but the principle survives nowadays only in a very mild form.

Ascidium, the typical genus of the truncated moliusca. The sea-equirt is a familiar example. The Darwinian development theory traced the ascent of main from this low animal condition.

Assoc Races are an annual fashionable function

dating from 1711 and taking place on Ascot Heath, only six inles from Windsor, in June. Have always had royal patronage. The course is nearly two nules lo

sgard, the Heaven of the Scandinavian nigtholog Ash, a familiar tree of the olive family, remarkable for its thick foliage and height of growth, often attaining from 100 to 250 feet. Is a valuable timber attaining from 100 To 150 feet. Is a valuable timber tree, tough and elastic, and largely used for wheels. In Scandinavian mythology the first man and woman were the ash and the elm, and the court of the gods was held under an ash. In the Highlands of Scotland it used to be thought lucky to give infants sh-sap as their first food.

Ashburton Treaty, so called after Lord Ashburton, the amhasador who carried it through, was signed between Great Britain and the United States in Ris and settled some boundary differences.

States in 1812 and settled some boundary differences between Canada and the State of Maine, and also dealt with the African Slave Trade.

Ashlar, a term designating the flat dressed stone as prepared for building use.

Ash Wadnesday, first day of Lent, on which ashes were sprinkled on the head as sign of pentience under an injunction of Pope Gregory the Great

ague in 10 cage v.E. plant courts.

Asp, a small poisonous snake, often mentioned in ancient hterature and traditionally supposed to have been used by Cleopatra in killing herself, though some modern naturalists scout the idea. It belongs

some modern naturalists scout the idea. At belongs to the cobra da capello genus.

Asparagus was a favounte vegetable with the ancient Romans, and is much prized to-day. Possesses a perennial root and yields the edible

Possesses a perennial root and yields the edible stalks every spring.

Asphalt, or mineral pitch, is a bituminous substance, the result of decayed vegetable matter, containing 80 per cent, of carbon, with hydrogen, nutrogen, and oxygen. Is largely used, mixed with sand, chalk, etc., for making road surfaces in dry climates, such as France Italy, Germany and America, and to a considerable extent also in this country, though the Engish climate is too humid for its general adoption, it becoming slippery with moisture. The ancient

Egyptians used it for embalming, and the Babylonians made wells of it. Trinidad, the Rhone Valley, the Dead See, and many other placts yield asphalt. An artificial asphalt largely composed of coal tar is used as asphalt in England, though in big clitics are numerous examples of Italian material.

assausing were first heard of in Persia about 1090 They were a secret religious sect, at the bidding of whose chief they murdered persons as an act of duty. Similar bodies were formed in various connections in later times, but the term assassination is now only used to specify the slaying of some public personage, and does not necessarily imply plot or collusion, although the majority of assassinations in recent tun's have been connected with political or anarchist movements. anarchist movements. Among the most notorious instances of assassination may be mentioned the instances of assasination may be mentioned the following: Julius Crear, 44 B C.; James I. of Scotland, 1437; Rizzio, 1865; Dirnley, 1867; Henry Vol France, 1660; Duke of Buckingham, 1628; Marat, 1993; Lincolin, 1865; Carrield, 1881; Lord Frederick Cavendish and Mr. Burke, 1881; Lord Frederick Cavendish and Fr. Burke, 1881; Lord Frederick Cavendish and Fr. Burke, 1861; King Humbert, 1900; President McKhiley, 1907; M. de Pleive, 1904; the Grand Duke Sergius of Russia, 1905; Garlos I., King of Portugal, and the Crown Prince, Luiz, 1908; Archduke Frances Ferdinand of Austria and his wife, June 20th, 1914.

and his wife, June 20th, 1914.

Starts, a bivalve mollusc, of which there are vany widely distributed fossil species, but only some twenty living species inhabiting the Arctic and North Atlantic oceans

Asteroids were unknown until the discovery of Ceres by Piazzi in 1801; at present over 500 are catalogued, the application of photography being responsible for the great majority. Most of the muor planets are mere celestial footballs, some having a diameter of only five miles. Their orbits he between those of Mars and Jupiter Whether these hodies are the fragments of a large planet is a question that is not yet determined.

ntrakhan, the curled wool of a species of black sheep native to the Russian province of Astrakhan

Astrakhan

Satrology, the so-called science of the stars, has
few serious believers in these days, and yet there
are "planet-rulers" and "professors" who still find
people credulous emough to put faith in their astral
readings. Certain almanaes continue to appear year
after year, whose chief claim to support is based on
astrological pretensions and predictions. Astrology,
however, was a serious study at one time, and
monarchs and other illustrious personages were
efrequent consulters of the astrologists. The
Chaldeans are supposed to have invented astrology,
which is an abstruse and involved systematisation.

chainceans are supposed to have invented estrology, which is an abstruse and involved systematisation, well calculated to impress the superstitious and ignorant. Astrologers divide the heavens into treelve equal parts, called houses, and endow the planets with certain influences and found their predictions on the positions occupied by the heavenly bodies at a person's birth or at any critical

heavenly bodies at a person's birth or at any critical period.

Stronomy, the oldest and one of the most fascinating of sciences, was in early times associated with astrology, but by a long series of observations and mathematical calculations a gradual knowledge of the movements of the heavenly bodies gree up, and it now ranks as one of the pritive sciences. Pythagoras (520 B.C.) understood the revolution of the earth upon its axis, but it was not until a thousand years later that this theory gained general acceptance, when the keen and spacious minds, first of Copernicus, and then of Tycho Brahe and Gallieo, demonstrated the truth of the Pythagorean theory. With the setting forth of the Copernicas system, astronomy was placed on a sure foundation, and the movements of the planets began to be more clearly comprehended. Naturally there was much that was crude and imperfactly defined in the system of Copernicus, but it was a working basis, and the studies of Kepler and Gallieo, making their observations with the telescope, resulted in an im-

mense increase of astronomical knowledge. Newton to whom we owe the discovery of the law of gravita-tion, the improvement of the telescope, and many other discoveries, placed physical astronomy on well-defined lines. Halley, Laplace, Herschel, and other eminent astronomers also added to the further comprehension of the science, and in our own day a vast accumulation of knowledge on this interesting subject has resulted from the improved scientific apparatus and equipment now available.

ataghan, a long curved dagger, worn by Turks and neighbourng peoples in the belt. The scabbard was often of silver-gilt and sometimes of gold.

was often of sure-gut and solutiones of gott.

Ata visum, the "breeding back" to remote ancestral
characteristics, observed in all forms of animal life.

Athanasian Oread is named after St. Athanasius,
who flourished in the 4th century, and is an
exposition of his doctrine of the Trinity and tho

Incarnation, but is supposed to have been written by Hilary, Bishop of Arles, in the 5th century.

Athetem is the denial of the divine, and it assumes

three forms-demal of the existence of God, denial

three forms—denial of the existence of God, denial that God has been proved to exist, and denial of the possibility of knowing of divine existence.

Atherine, a pretty little fish found in the Meditorranean and along the south coast of Britain. The latter variety is familiarly styled the sand-smelt.

Ethletics of all kinds are more generally midolged in to-day than at any former period. In the ancient Greek and Roman times wresting and running were regular sports, chiefly contested by trained pre-issional men, and great honour was just to the rogular sports, chiefly contested by trained professional men, and great honour was just to the winners. Euthymus, Milo, and Hipposthenes were among the more celebrated "classical" athletes, while Plato, Pythagoras, and Cleanthes were amateur contestants of no mean renown. The Isthmusn Games at Cornuti, and the Olympian Games on the banks of the Alpheus in the Pelopoinesus, were immensely popular; whilst the same kind of games continued to be practised more or less in all countries, from century to century, though perhaus continued to be practised more or less in all countries, from century to century, though perhaps with the keenest zest in England. Here, in medieeval times, in addition to wrestling and running, archery, quarterstai, jumping, and other athletic games were much in vogue. The developments in attiletics during the 19th century were surprising. At the Universities and the public schools, and in counce tion with military regiments, industrial establishments, and all kinds of institutions, athletic clubs were formed, while every town. tions, athletic clubs were formed, while every town, village and hamlet had its athletic clubs in sufficiently large numbers to afford youths and young men everywhere the opportunity of becoming members. The whole country became interested in athletic sports, and cricket in the summer and football in the whater have their adherents in every nook and corner of the kingdom. France and Germany lawe also in recent years taken to athletic aports, and in the United States all the English games are played, with the addition of baseball, which is the American national game, as Lacrosse is the national game of Canada.
The defeat of our English polo and Lwn tennis champions in the United States were among the events of 1913. In view of the Olympic games of 1916 at Berlin, a movement was set on foot for raising £100,000 in aid of British athletics, but not proceeded with. Women are now largely given to athletic exercises of the milder form. See Sports and

Atto,000 in and distinstancence, but not proceeded with. Women are now largely given to athletic exercises of the milder form. See Sports and Pastimes Section of "Pears' Cyclopardia."

**Elantic Gable Telegraphs Telegraphs were talked of for some years before an attempt was made to accompilsh the feat of laying one as early as 1845, but it was not until 1868 that it assumed a practical shape, Sir Charles Bright succeeding in that year in laying the first cable between Valentia, in Irejand, and Newfoundand. It was 2,500 miles long. From a wanety of causes, however, this first cable was not worked with success. A second cable was laid in 1865, the famous Grate Eastern stemiship being rithed on the occasion, but the cable broke amid-ocean, and respect to the scheme for connecting Bingland and

America by telegraph. The following year, however, a further attempt was made with complete success, for not only was a new cable laid, but the one of the previous year was picked up and spliced, tigus two Atlantic cables were finished at the same time. There are now 70 cables across the the same time. There are now ro cables across the Morth Atlantic, mostly controlled by the Commercial, Anglo-American, and Western Umon companies. Two of the 36 cables are French and two Cerman. A general system of half rates for deterred telegrams is in operation between British Dominions and the United States.

Atom is the unit of matter, the smallest indivisible particle. The atom of hydrogen gas is the lightest of all atoms, and constitutes the unit of comparison.

of all atons, and constitutes the unit of comparison.

Atomic Theory was first formulated by John
Dalton at the beginning of the right century. Later
experiments have shown that atoms consist of
"specks" so extraordinarily minute as to be truly
countless. An atom of hydrogen contains 700
"electrons," an atom of radium 150,000.

Atrium was a square covered central court of a
Roman house, with double rows of columns round
in the middle of the court was a relief in while

and in the middle of the court was a cistern, while

the walls and floors were usually of marble. Atrops, a genus of plants possessing poisonous properties, the best known variety of which is the deadly nightshade of Britan.

Attainder is a term for the faint that attaches to a

person or to his estate after he has been convicted of treason or felony and sentenced to death. Up to 1843 it involved the forfeiture of lands

sags involved the forfeiture of lands.

Attar (or Otto) of Romes is an essential oil of
10ses prepared in the Last, and costly. It takes
20 lbs, of rows to produce 102. of attar.

Attorney, one who acts for another in legal matters,
a term generally used to designate a lawyer or
solicitor as distinct from a barrister. Attorneys
cannot appear for clients in a superior court.

Andening Confession, the chair standard of fault.

Augsburg Confession, the chest standard of faith in the Lutheran Church was drawns up by Luther and other Wittenberg Protestant theologians to present to the Emperor Charles V. in 1530, in the

present to the Emperor Charles V. in 1530, in the cathedral at Augsburg.

August, named after the Emperor Augustus, because it was his "lucky" month.

Auk is the name given to a genus of swinning birds now extinct. It laved in the temperate region of the North Atlantic, and bred largely on St. Kilda. The female only loid one egg a year. The eggs, of which some 66 or 67 are known to exist, realise very large prices when offered to sale.

Aulic Council, the personal council of the old centan Emperors, superseded by the Contederation of the schme in the formation is the personal declaration of "mortal" sins to a priest in order to obtain absolution.

Aurora Borealia, or Northern Lights, are seen both in the Northern and Southern Polar regions The centre of the meteoric arch corresponds pro The centre of the meteoric arch corresponds pro-bably with the magnetic north, and the phenomenon is generally seen two or three hours after sunset. It is constantly moting, but may remain visible for several hours. When the ray, are very bright, they are of varied colours—green, rose, toolet, etc. Austarlitz, Battle Of, was fought near Brunn, in Moravia, on December 2, 1805, when Napoleon, with 20,000 men, defeated the forces of Russia and Austria, unphysics of con-

yo, oco men, detention the forces of Russia and Austria, numbering 95,000.

Auto-da-Fé. or Act of Faith, was the ceremony connected with the execution of heretics under the Inquisition of Spain and Portugal, the persons condemned being burned alive. The king and court generally attended in state.

generally attended in state.

Autograph Collactions are very numerous in these days, the rage for Jetting together the actual writings of distinguished people having led to a regular traffic in such things in recent years. Large sums are paid for scarce autographs of emilient people. An autograph of Shakespeare was bought by the British Museum in 1828 for 1315.

Automata are self-involving machines worked by mysible mechanism, and have existed since 400 B.C.,

when A shytas of Tarentum invented an automatic pigran. The most perfect constructor of modern automata was Vaucanson, who, about 1740, invented a flute-player and a duck that could eat, drink, and quade. Kempeler's chess-player was a celebrated automatum that attracted much attention in the early part of the 19th century. In toyland, automatic con-trivances of a very ingenious kind are common. In recent times Mr. Maskelyne has made and exhibited

in London automats of wonderful ingenuity.

Autonomy denotes the right of self-government, and was first used in reference to the municipalities of ancient Greece, where the right of separate

government was allowed.

government was allowed.

Autuum, the third season of the year, begins with
the autumnal equinox about September 22, and ends
on December 23, but the term is generally understood as covering the period between the middle of
August and the middle of November.

Avalanches are of four kinds. (2) Powdery avalanches, consisting of snow which has become loose
and dry from long frost. (2) Creeping avalanches,
which are loosened by Spring, but, being on a gentle
slope, creep down slowly by the force of their own
weight. (3) Glacter avalanches, masses of ice which
split of in summer with a great noise, and go tearing weight. (3) Glacier avalanches, masses of ice which split off in summer with a great noise, and go tearing down a precipice to be smashed to pieces at the bottom. (4) The real avalanches of Mage accumalations of snow, which are hurled over almost perpendicular walls of rock into the valleys beneath. Avalon is the earthly paradise of Celtic mythology. Avabury Tample, a famous Druidical runprobably of the late Stone Age—near Mariborough, in Witshire.

Aventine, one of the seven hills of Rome.

Aventine, one of the seven hills of Rome.

Avenue, a lake in Italy whose vapours were supposed to be fatal to birds, and whose sides were so steep that it was deemed the entrance to Hades.

Avesta, the tule of the sacred books of the Parsees.

Avoirdnoois (avoir de pois, "goods of weight") is used in the United Kingdom for everything except met ils, precious stones, and drugs.

Axe, one of the first tools devised by primitive man

in all parts of the world. Axes of stone, bronze, and rough iron have been found in the geological strata. Axiom, a statement of general truth which admits of no dispute.

israel, the angel of death of the Turks and Arabs. Axteos, the name of a native and powerful race found in Mexico when the Spaniards first discovered that

Asymite, an ecclesiastical term denoting such as misst on the use of unleavened bread in the administration of the Sacrament of the Lord's Supper.

Baal, the god of the sun, and meaning lord, or master, was worshipped by the ancient Chaldeans, Phoenicians, and Assyrians.

Babal, Tower of, described in Gen. xi. 9, the election of which led to the confusion of tongues. A

version of the story exists almong the cunciform tablets in the British Museum.

Babiroussa, a ferocious wild pig, native of the Celebes, sometimes called the horned-hog, from the fact that the long upper tusks, growing upwards, pierce the upper hp and curve backwards like the horns of some of the rummants. It is longer-legged than ordinary swine

than ordinary swine. Baboo, a term signifying "Mr" or "Sir" among Bengail Indians, and often used to indicate a native who tree ineflectively to write English, hence the expression Baboo-English. Baboon, a species of monkey, ranking next to the apes, with short tails and large heads. The common states, with short tails and large heads.

baboon is a native of Gunea.

Babul Tree, an Indian tice of the acacia order, yielding an extremely hard wood largely used for railway sleepers, and also producing an edible and

medicinal gum.

Babyionian Captivity of the Jews captured by
Nebuchadnezzar at the taking of Jerusalem in 586 R.C.

lasted upwards of 50 years, until Babylen was in

asreed upwares or so years, than Bayan was turn taken by Cyrus.

Baccarat, a French and a banker.

Baccharla, an oil-yieldung plant, of many species, distributed over the Western Hemisphere widely. Plowman's spikenard is perhaps the best known vantety in this large genus, and the resinous product of local species is used medicinally in Brazil for febrile and rheumatic disorders.

febrile and rheumatic disorders.

Bachelor, an ancient word of obscure origin and
varied meaning. Was easy in use in connection
with University degrees. Pope Gregory IX. introduced the term to denote the passing of the first
grade in the academic course in the University of
Parls in the 17th century. Later it was applied /o
single men generally, and in some countries taxes
have been ignored or men who graning in the later.

have been imposed on men who remained bachelors. nave ocen imposed on men who remained bachelors.

Bacillus, the leading division of the group of
minute plants named bacteria, and including the
tubertic bacillus, the cause of consumption. Other
bacilli are the bacillus diphtheria, causing diphtheria; bacillus pests, causing the plague; and
others, including leprosy, glanders, etc. (See
Bacterial of v.)

theria; bacillus festit, causing the plague; and others, including leprosy, glanders, etc. (See Baccarlology.)

Baconian Philosophy, the inductive philosophy te which many maintain that Lord Bacon was the founder; more widely "Baconian" means anything pertaining to Francis Bacon, Lord Verulam (1961-1960). (See the Biographical Section of "Pearlol Cyclopedia.")

Cyclop-edia.")

Bacteriology is the science of Bacteria, founded by Pasteur, and comprising what is called the "germ theory" of disease. Dr. Koch has been another ennnent worker in the same field, and the discoveries resulting from scientific effort in this direction are of the utmost importance. Bacteria are the causes of fermentation and putrefaction, and in time, as far as disease is concerned, may be exterminated. To experiments in the science of bacteriology we owe our fuller knowledge of santary principles and of preventive hygienic measures, as well as of the active principles of agriculture, brewing, etc.

wen as or the active principles of agraculture, brewing, etc.

Bactris, a genus of palms common in the marshy places of the tropics and certain parts of America. The long slender stems are largely converted into walking-sticks, and the Tobagocane is a bactris exported in considerable quantity from Jamaica for this purpose.

this purpose.

Badger, a carnivorous animal of the Otter family, but very easily tamed. Of nocturnal and burrowing habit. Badger-hunting is an exciting sport.

Badges are a part of heraldry, and in early times tusually bore some allusion to the weater's name or office, or some incident in his career, and were worn

office, or some incident in his career, and were worn by retainers as a kind of livery.

Bagavel, a right of levying duty on all goods entering Exeter city for sale, granted by Edward I., the proceeds to be devoted to public purposes.

Baggala, a two-masted boat of about zoo tons burden, used in the Arabian seas for commerce and formerly for piracy; "dhow" was an alternative name given to these fact vessels.

Bagginganta Boll was that by which the Scottish

Bagiments Roll was that by which the Scottish clergy were taxed prior to the Reformation.

clergy were taxed prior to the Reformation.

Bagous, a genus of marsh beetles, of the weevil family; there are several British species.

Bagpipes, a musical wind instrument, chiefly played in Scotland and Ireland, and comprising bellows and pipes. In Assyria, India, and China, a form of bagpipes was in use in aucient times, and in Italy they are common at the present day. All the Highland Regiments have their bands of pipers.

Balkalite, a dingy green mineral, found near the great take in Asiatic Russia from which it takes its name; it is a variety of pyroxene, alhed to sahite.

Balley comprised all the space within the outer walls of a castle except the keep.

Balle is a Scottish term for the magistrate of a municipal corporation or 10yal burgh.

Ballia ballia ballia jurisdiction.

Balram, a great festival of Mehommedan countries

in a sense analogous to the Christian Easter, and fol-lowing upon the four weeks, tast of the Ramadan. Bakshish, the Eastern term for "a present" or gratuity; its bestowal is very often cunningly con-trived by servitors or officials.

Bala Beds, the Silurian group of rocks near Bala.

N. Wales, composed chiefly of sandstones and shales and rich in himestone tossils.

Balance, a form of lever supported in the centre, and having scales at each end for ascertaining the weight of a substance or goods. Stability and sensibility are the two chief requisities of a true balance; the first characteristic returning the balance to its original position after a weighing has occurred, the second showing a response to the slightest action.

snowing a response to the siigntest action.

Balcony, a projecting portion of a house, of stone, wood, or iron. Known to the Greeks and Romans, and now general in Italy. Introduced into England in the 16th century.

Baldaohin, the silken canopy used in Roman Cathiche processions and carried over the Host. Some are of great size, and stationary, that in St. Peter's at Rome heaving over row forth light.

Peter's at Rome being over 120 feet high.

Baldrick, an ornamental belt worn across the shoulder or round the waist, in feudal times denoting

the rank of the wearer.

the rank of the wearer.

**ale. Council of, lasted from 1431 to 1443, and included several meetings of Roman Church digmanes, the object being to reconcile the Hussites. It led to further ruptures, however, causing the deposition of Pope Eugenius IV. in favour of Felix V.; but on the death of the former, Felix resigned and Nicholas V. became Pope.

Balearic Crane, the crowned crane of the Balearic Islands in the Mediterranean and the North African mainland, distinguished by its yellowish, black-tipped occipital tuft and by its trumpet note.

Balean, the name given to a series of horny plates

Balean, the name given to a series of horny plates growing and hanging from the palate into the mouth of certain species of whales.

Balista, a large military engine, of crude contrivance but considerable effectuality, anciently used for hurling missles in war by the Romans and others.

Balista, a term used originally in regard to popular songs of war or romance, and only properly applied to simple compositions in narrative form such as those included in Bishop Percy's famous Retigues of Ancient Engists Peetry. Sort, Lewis, Coleridge, Keats, and in later times Tempyson and Swinburne, have all produced effective pieces of the old ballad have all produced effective pieces of the old ballad form. The term ballad is given to songs in general so long as they are simple in theme and construction.

Ballast is weighty matter placed in the bottom of a

ship for balancing purposes, and varies in amount with the build, the size, and the cargo of a vessel.

Water is now in general use for ballast.

Ballet was admitted into the old Greek religious sallet was admitted into the old Greek religious exercises, and also formed part of the Roman pantomine, when a story was represented by ballet action. France adopted the ballet in the 16th century, and it was greatly patronised by Henry IV. and Louis XIV. Ballets were highly popular in the early part of the 29th century in connection with operas, and many dancers of note took part in them—Taglioni, Fanny Essler, and others. An active revival of the ballet has taken place in Europe and America in recent years, consequent mainly upon the passionate and intense style of dancing practised with so much acceptance by members of the Russian ballets, Anna Pavlova and Tamar Karsavina being among the chief exponents of this style of dancing, while the chief exponents of this style of dancing, while Maud Allan, the American dansense, has won much fame for impersonation dancing. Elaborate spec-Empire, the Falace, the Alliambra, etc., in London.

Ballistic Curyrs, the actual course taken by any projectile upon discharge.

Ballistic Paralla, a cruciform aperture in the walls of a

Ballisserama, a cruciony aperinie in the wais of a fortress, through which the archers fired arrows.

Ballium, originally the outer bulwark of a strong-hold; subsequently the courtyard comprised within such outer bulwark, including sometimes the quarters of the garrison, the church, and other buildings.

Balloon. (See Aerial Navigation.)

Ballot, or secret-voting, was in use to an extent under the Grocks and Romans, and was advocated in England in the 17th čentury. It was not until the 18th cargiury, however, that the idea came to be adopted as part of a political programme. Test ballots were taken at Manichester in 1805, and the first London School Board was elected by ballot natyo. Then followed Mr. W. E. Forster's Ballot Act of 1872, since which date all Parliamentary and municipal elections have been by ballot. Previous to this the ballot system had worked with advantage in Lustralia, France, and other countries, and in England it makes distinctly for punty of election.

Balsan, a fishing raft or boat used childry along the l'acific coast of South America.

Balisam, the name of a wide genus of plants bearing handsome flowers. A term given also to certain houlds and substances used as ointinents or unguents and mostly obtained from trees. Thus, the old Balm of Clicad was from the bark of certain shrubs

Baltimore Bird, a lively black and orange plumaged starling of the orole sub-family extending from Brazil to Canada; builds a well-constructed from Brazil to Canada; builds a well-constructed

hanging-nest.

nanging-ness.

Balusters are small pillars, short distances apart, made of metal, stone, or wood, used as supports for cornices, etc., or for enclosing stairs. A range of balusters and that which they support are called a

Balzarine, a light dress material, of mixed cotton and worsted manufacture.

Bambino, the name given to an image of the Infant Christ in the church of the Ara Coel at Rome, and supposed to possess miraculous powers. Bamboos, a genus of strong grasses, growing from

annboos, a genus of strong grasses, growing from so to 60 feet high, and much used by the Chinese for all kinds of purposes. The shoots of some species are tender and esculent; the short canes are used as walking sticks.

walking sticks.

Bampton Lectures were instituted by the Rev.
John Bampton, who left £120 a year (since considerably increased) for an annual course of divinity lectures to be delivered at Oxford in St. Mary's Church, and to be published within two months of their utterance. Only Oxford and Cambridge M.A.'s are eligible. Heber [1819], Whatsely (1820), Milman (1821), Hampden (1822), Mansell (1828), Liddon (1866), and Canon Gore (1821) are smong the eminent divines who have filled the position of Bampton University. Lecturer.

Ban. though otherwise used in ancient times, is now

Bana, though otherwise used in ancient times, is now a torm applied to a proclamation of outlawry, and in some senses is equivalent to a curse.

Banana, [Muss sepicintum], a large herbaccous plant cultivated in tropical and semi-tropical regions in great abundance, and one of the most productive plants known. The fruit of the banana is the staple icood of the natives in many of the Pacific Islands, and of late years has been largely imported into England, great quantities now coming from Jamaica and other West Indian islands. Compared with wheat, the productiveness of the banana is as 132 to and other West Indian islands. Compared with wheat, the productiveness of the banana is as 133 to 1, and as against potatoes 44 to 1. Fresh bananas to a value approaching two millions sterling are now imported into this country.

Banco, Sittings in, those of a Superior Court of Common Law in full session, as distinguished from the proceedings of the judges at Nisi Prius, or on circuit.

circuit.

Band of Hope, an organisation possessing over 3,000 branches, founded in 1835 for promoting temperance principles among children.

Bandana, the name given to a red spotted handkerchief usually made of cotton, but formerly only applied to slik handerchiefs of that colour and design.

Bandsoot, an Australian burrowingsminal, of ratike appearance, which carries its young m a pouch. The Indian Mus gigeniens, as large as a rabbit, is also called a bandleoot. The oriental animal is a grain feeder, and the name signifier really "pig-rat."

Banner, a fing indicating rank, office, or command, including the standard or national banner, regimental colours, a ship's fieg, pendant, ensugn, etc.

Bannardt, a grade of knighthood conferred by the sovereign for some heroic act on the field of battle, and to called from the fact that the knight was given

a banner in exchange for his pennon.

Bannook is cake made of barley meal, much favoured in Scotland, and distinct from the cake of natmeal.

Banns of Marriage are public proclamations of intention of marriage, and must be announced in Church on three successive Sundays; then, if no just cause or impediment be advanced against the union proposed, it can take place at any time within three months.

Banshee is a figure in Irish superstitions, supposed

to give warning of death.

to give warming of death,

Bantu is the name of a group of African languages

Spoken by Zulu.; Kaffirs, and others.

Banyan is the name of a cunous tree of India and

Ceylon. Its peculiarity is that it throws off shoots

from its mam branchies that grow down and take

root in the ground as separate stems.

Baobab, or Monkey-bread tree, is found in West Africa. Its trunk sometimes attains a girth of 70 feet, and there are specimens supposed to be thousands of years old. Yields a pulpy fruit from which a drink is made, and the dried leaves are eaten.

Baptism is a rite practised, either with infants or adults, by almost all Christian sects except Quakers. In the Church of England the Laptism of liniants is regarded as the act by which they are admitted "mto the vishle Church of Christ." The Baptists perform the rite only with adults and by the im-

necrsion of the entire body.

Baptistary, a building or portion of building devoted to the rite of baptism. The most famous baptisteries are those of Florence and Piss, erected in the Middle Ages, which are detached from their

mother churches

Baptists came into notice at the Reformation, Saptists came into notice at the Reformation. For a time they suffered much persecution, but gradually made headway by their zeal and sincenty. To-day this sect is spread over all parts of the Protestant world, though not always in large communities. They are strong in the United States. Throughout the world the Baptists have over 6,000,000 communi-

me worm the maptists have over 6,000,000 communicants, over 400,000 being in England and Wales.

Barbarian in the times of ancient Greece meant anyone who could not speak Greek. Now the term is applied to savage or uncivilised people generally.

Barbary Apa is a small species found on the rock of Gibraliar, it a necestors having probably been brought from Barbary. It is the only kind of monkey

existing in Europe.

Barbal, a well-known European river fish, deriving

Barbal, a well-known European river fish, deriving its nane from a sort of beard haiging from its pawe Barbarry, a berry-producing thrub, typical of the genus Berberidacee. Grows in a large compact bush, and bears bright red berries growing in clusters. Barbars are an ancient and honoured fraternity. There was a Guild of Barbers long before 1308, when we get the record of Richard le Barbour being appointed Master, to have "supervision over the trade." In the time of Edward IV, they were the only persons who practised surgery; hence the old title barber-surgeons. The London Barbers were incorporated in 1462, and a rival Company of Surgeons of London was afterwards set up. In time the geons of London was afterwards set up. In time the latter only were permitted to act as surgeons although even then the barbers might follow. Blood-letting and drawing teeth. The barber's pole is a relic of the barbersurgeons days, the filler repre-

react of the barber-sargeons days, the sheet eper-senting bandaging.

Barbette, an elevated platform in fortresses or on war-vessels from which heavy guns are fired.

Barbican, a fortified entrance to a castle or city, with projecting towers. In the London street called Barbican there was formerly a barbican in front of

Barbican there was formerly a batteries and the city gates.

Barcarolle, a Venetian gouldier's song with an easy swaying movement, and applied to instrumental as well as focal compositions of the same character.

Bard was the name used among the ancient Cetts of denote a poet or mustrel, and their mission was to sing of heroic deeds. They were supposed to have

the gift of prophecy, and were exempt from taxes and military service.

martary service.

Bardesy Island, off North Wales, is the temote home of a singularly isolated community. Bardesy is roughly two miles in length by one in width. The inhabitants, who occupy some dozen well-built and comfortable farmhouses, divide the callings of farmers and fishermen Bardsey is the property of Lord Newborough and was a favourite resort of his grand-

father, who was buried on the island in 1888

Barebones' Parliament, so called from the nickname of one of its members, "Praise-God Barebones." It was specially selected by Cromwell, and

bones." It was specially selected by Cromwell, and sat from July at the December raph, rogs.

Barges are generally flat-hottomed boats, but the tern is applied to most slow-moving riverboats, from royal state barges to bouse-boats, and sometimes to "lighters" and "keels" employed in canal and other waterway goods traffic.

Barilla, a soda carbonate obtained from the burning of plants in salt marsh lands, once in great demand but now little used, having been superseded by a carbonate produced from common salt.

Barylum, a metal usually occurring as suichase of

Bartum, a metal usually occurring as sulphate of barium and carbonate of barium, but only obtained

barium and carbonate of barhun, but only obtained by powerful action. Sir Humphry Davy having passed a strong electric current through chloride of barium to obtain it. It is white, bustrous, and heavy.

Bark, the external covering of trees, comprises the cuticle or epiderms, the outer bark or rorres, and the inner bark or liber. It is applied to many uses, and numerous kinds, rich in tannin, are utilised for tanning purposes. Various species of oak bark are most used in Europe; in North America, the henlock spruce; and it is the presence of pasture and hemlock spruce forests round Quebec that has caused large leather trade. Many barks are used as medicines.

Barley, a cereal bank whose grain is cheffy used for

Barley, a cereal plant whose grain is chiefly used for malting purposes. There are several species, but in the United Kingdom the spring barley, the long-eared, and the winter kinds are mostly cultivated.

eared, and the winter kinds are incestly cultivated.

Barlow Lens, a modification of the object-glass of
the telescope, increasing its magnifying power
without the loss of light which would onsue from the
use of an eye-piece of shorter focus. Named after
Mr. Peter Barlow, Professor of Mathematics at
Woolwich, 1806-1847.

Barnaole is a kind of crustacean, often found in
large numbers attached to the bottoms of shins.

large numbers attached to the bottoms of ships, rocks, or timbers, under water. There is also a species of goose called the barnacle.

species of goose called the barnacle.

Barometer, an invirument for measuring the weight or pressure of the atmosphere, and was invented at Florence by Torncelli, pupil of Galileo, in cré44. Ordinarily, it is a glass tube 3 ft. long, filled with mercury, and inverted into a vessel also containing mercury, this causing the liquid in the tube to descend a few inches, leaving a vacuum at the top. The pressure at all points in the same bonzontal plane of a liquid being equal, the surface of the mercury, after the inversion of the tube, cannot remain in one plane as when the atmosphere is pressing equally, but must use when the arg gets heavier and fall when the air gets lighter. Gay-Lussac's barometer is siphon-shaped, with two scales graduating in opposite directions to a zero

Lussac's barometer is siphon-shaped, with two scales graduating in opposite directions to a zero point; Bunter's is a slight improvement on this. (See also Anexoid.)

Baronet is a title instituted by James I. The first baronet was Sir Nicholas Bacon, but numerous others were made about the same time, the fee charged for the honour in each case being 75,000. It is the lowest of hereditary titles, and is pretty freely dispersed among those who distinguish themselves in trade, industry, politics, or special civic service. James I, placed the limit of number of baronets at 200. To-day there are in Great Britzin over 1,100.

Saron of Beef is a double sirioin, not often seen in these days, but common in olden times at court and civic feasts.

by letters patent in this country was John Beauchamp de Holt, Baron of Kidderminster, on Oct. 10th, 1387. Of course there

were barons long before that; but the origin of the rank is more or less lost in antiquity, along with that of the name. It has been derived from the Latin "baro," signifying "a simple or foolish mon, a blockhead." The old German "bar," meaning "man," is considered more probably the origin. Steat connects it with the verb "to bear," suggesting that the first meaning was "bearer," "porter." In old legal diction, "baron et feme "merely meant "man and wife."

Barque, a three-masted vessel without a mizzen top-sail. The term, however, is often applied to almost

any small ship.

Barracks are buildings for the lodging and accommodation of soldiers, officers and men, and exist in all towns where bodies of troops are stationed. It was not until towards the end of the 18th century was not until towards the end of the 18th century that barracks began to be erected, and even dowa to the close of the French War in 1815 the provision in this direction was very defective. After the Crimean War the barrack system was thoroughly re-organised, and in London, at Aldershot, and in the garrison towas many fine and extensive barracks better the transfer of the provision of the control of the provision of the provisi

the garrison towns many fine and extensive barracis.

Barrel Organ, a musical instrument in which the music is made by a barrel or cylinder, set with pins and staples, which rotate so as to open the valves for admitting the wind to the pipes. Though common at one time, they are now largely superseded by

plano organs.

Barrioades are temporary street fortifications usually erected by insurgents at times of revocution, and the most notable have been those of Paris. Is

and the most notable have been those of Paris. Is 1830, 1848, and during the Commune disturbances of 1871 they were much resorted to, and were the scenes of many sanguinary conflicts.

Barrister is a person qualified to practice at the English or Irish Barr. A barrister in practice in England must be a member of one of the four Irans of Court—Lincoln's Iran, the linner Temple, the Middle Temple, or Gray's Inn. Admission is obtained by passing certain examinations, keeping twalter terms, feetingths, current vessels and courts. twelve terms (extending over 3 years), and paying certain fees. The ranks and degrees of barristers are (1) Barristers ordinary, who wear stuff gowns; (2) King's Counsel, who wear silk gowns and are admitted within the Bar; and (3) Serjeants-at-law, an order now practically extinct, no fresh appointments having been made in recent years.

Barrow is an ancient artificial earth-mound supposed to be a burial-place, and found in many parts of Europe. There is one at Silbury Hill, near Mariborough, which covers over 5 acres, and rises to a height of 170 ft. Sometimes they are formed of stones, and receive the name of cairns. The Roman

tumulus was of a similar description.

manusus was or a suniar description.

Bar Sinifatar, a term often improperly used to describe the two diagonal lines drawn from left to right, from the sunster chief to the dexter base of an heraldic shield, and supposed to be a mark of illegitimacy. The right term is "bend sinister," and it is not absolutely cerain that the "limitation." illegitimacy. The right term is "bend sinuter," and it is not absolutely certain that the illegitimacy interpretation is the correct one.

Bartisan is a small battlemented turret at the top

of a tower.

Basalt Rocks are dark coloured, and of igneous origin, and occur either as lava currents, as in Mull and Staffa, or as intrusive sheets, like the Edinburgh Castle Rock and Salisbury Craig. One of the m noted examples of basaltic columns is that of the

noted examples of basalite columns is that of the Gazant's Causeway in Ireland.

Basant'se, a smooth black siliceous mineral, or flinty jasper; a crypto-crystalline quartz, sometimes styled the Lydian Stone. An alloyed metal being rubbed across basanite, the mark of colour left will indicate the nature and depth of the alloy, hence it obtains its same, whigh signifies, in Greek, "a touchstone."

Base, a chemical term denoting that which combines gith an acid to form a salt. It is always a composed body, and the oxide of either a metals or of an elementary group possessing the power of a metal. Base.it, Council of, was the last of the three great "sformation. Councils held in 1431-1443.

Bashi-Basouks, irregular Turidsh troops, con-sisting of a rough but brave class of men from the Asiatic provinces.

Basilishe is a kind of lizard of aquatic habits, pos-

Basilishe's a kind of lizard of aquatic habits, pos-essing an elevated crest (which it can erect or depress at will) running down the centre of its back. Basques are an old race living in the Pyrenees, with a language of their own, di 'lerent from all other languages, and enjoying ancient privileges of a curtous kind. Bas-Relief ("low relief"), a term used in sculpture to denote a class of sculptures, the figures of which are only slightly raised from the surface of the stone or clay upon which the design is wrought. Bassa, a remus of fish with spiny fins, of the Perch

Base, a genus of fish with spiny fins, of the Perch family, found in the sea only in Europe, but in-

naming, found in the sea only in Europe, but in-habiting fresh waters in America. nameon, a musical wind instrument of three octaves, the bass of the reed band. Invented by an Italian canon in 1530.

Bastilla, a term originally used to denote any old French castle, but gaining its chief significance by being the name of the former State prison of Parls, destroyed by the mob on the outbreak of the Revolution in 1789.

Bastinado, a leating, administered on the soles of the feet, formerly indicted with cruel frequency in China, Turkey, and elsewhere in the Orient.

Beation, an earthwork standing out from a rampart, of which it forms a principal part. Usually five-sided, the fifth sale opening into the interior of the fortification. The front face of an ancient Roman bastion was generally convex and semicircular.

Bat. an order of mammals, with fore-limbs held together by a membrane that serves the purpose of a wing. It has small eyes and large ears, and is of a wing A habits, only emerging from its concent-ment at the approach of darkness. Buts are mostly insectivorous. The Vampire-bat, which sucks the blood of sleeping annuals, occurs only in South

Bath Brick is made exclusively at Bridgwater, Somersetshire, and there only because the river Parrett deposits, for a distance of a few hundred yards, the peculiar compound of saud and sline of which its familiar, blocks are composed. Farther which its familiar blocks are composed a number of the stream the six contains too much mud; lower up the stream the six contains too great. Every down the proportion of sand is too great. Every ebb, therefore, the workmen remove the soil from this favoured spot which Dame Nature has placed

there with the previous tide.

Bath, Order of, was established by Henry IV. in 1399, and is the second in rank of English knightly orders, the Garter coming first. At first it was a orders, the Garrer coming nest. At arst it was a military order only, but since £847 has had a civil division also. In the Order are three classes: G.C.B., or Knight Grand Cross of the Bath; K.C.B., or Companion of the Bath. Companionship of the Bath does not carry knighthood or entitle to the prefix "Sir." The King is the head of the Order. The headen is a cinema gibble and star with the motto badge is a crimson ribbon and star, with the motto

ria juncta in uno.

Bathos is an unconscious lapse from the sublime to the trivial, and is often the result of over-eagerness

to be impressive.

Lath-stone is a kind of limestone found in quarries

Bath stone is a kind of limestone found in quarries near Bath, and of the oolite formation. It is soft and easily worked when "green" from the quarry, and becomes hard with exposure in suitable places, and becomes hard with exposure in suitable places, and toads are typical representatives. The young of these animals are tadpoles, and grow from eggs or spawn, at first living entirely in the water. The subrequent developments, including the substitution of lungs for gills, are rapid and uncresting.

Battalions, a body of infantry, 1,006 firong on a war footing, and organised in eight companies, and commanded by a lieutenant-colonel, assisted by two majors, an adjutant, eight captains, and sixteen lieutenasts. Two or three battalions may be combined to form a brigade.

bined to form a brigade.

Battering Ram, a military apparatus mounted on wheels, and composed of a heavy, iron-bound beam,

which was impelled with great force upon the walls of a besieged place. Battery, a number of cannon with their equipment of men and horses. A field or horse-battery usually comprises six guns, a mountain-battery four 7-pounder guns, a siege-battery four heavy guns. The equip-ment in men and animals varies, however, according to circumstances.

to circumstances.

Battle-axe was the great weapon of defence in carly times, but it gave way to the grow and spear.

Battlemant, a raised wall running along the top of a building, with embrasures through which an enemy could be fired upon. At first solely military, later it was frequently used as an architectural convenience.

ornamentation

omainentation.

Battles involving immense slaughter have been fought in recent wars, but past records reveal even more serious carnage. In the wars of the French Revolution and those of Napoleon, which surged backward and forward over Europe from 1994 to 1875, it is estimated that the French lost two millions in killed alone. In nine of the battles in which Napoleon himself took part, the losses were as follower.

Battle.	Men engaged.	Killed and wounded.
Austerlitz 1805	148,000	25,000
Jena 1806	98,000	17,000
Eylau 1807	133,000	42,000
Friedland 1807	142,000	34,000
Eckmuhl 1809	745,000	15,000
Wagram 1809	370,000	44,000
Borodino 1812	263,000	75,000
Leipzig 1813	440,000	92,000
Waterloo 1818	770,000	42,000

Waterbo 1853 170,000 43,000 10 11 the Pennsular War. England left fifty thousand dend and the French a quarter of a milion behind them in Spain. At Salamanca we lost 15 per cent. of our troops, and at Albuera 65 per cent. In the Crimea the total losses of Russia and the Allies were put at 48,000, and Britain lost 22 per cent. of her ment but there were no great decisive battles with enormous shughter. The American Civil War, which lasted from 185t to 1855, involved a loss of six hundred thousand men. In a frontal attack by Lorneral Grant at Coldharbour, in 1864, ten thousand men tell in less than ten munutes. The following were the losses in the chief battles:—

Battle,		Men K engaged. v	illed and vounded.
Sharpsburg	. 1862	328,000	21,010
Fredericksburg	. 1862	200,000	26,971
Chickamunga .	. 1863	128,000	35,100
Gettysburg	. 1863	163,000	37,000
Wilderness	*R64	700 000	200.000

Wilderness . 1864 179,000 20,000 € In the campaign of Sadowa, which lasted only seven weeks, the casualties numbered 37,000, or over 8,000 a week. The chief battle was that of Königgrätz, a week. The chief battle was that of Königriätz, where the forces engaged were 417,000, and the killed and wounded 20,000. In the seven months of the Franco-German War, 1870-71, the killed and disabled numbered 371,751. A million Germans and 710,000 Frenchmen took the field, and the following were the casualities:—

		Germans.	Total.
Killed		19,782	60,782
Died of wounds .		10,710	46,710
Died of sickness.		14,259	59,259
Disabled	116,000	89,000	205,000

Totals . . . 238,000 133,751 371,751

In four of the principal battles the following were
the results in killed and provided by

French	Germans.	Total.
Woerth 32,000	17,000	43,000
Mars-le-Tour 26,000	16,900	42,900
Gravelotte 28,500	20 100	48,600
Paris 20.300	12.200	42.900

Pans 30,000 13,300 43,500 In the Russo-Turkish War of 1877-76, with its total loss of nearly 20,000, the only notable battle was before Plévins, when in the course of a protracted siege there fell in a single day 18,000 out of 80,000 Russians engaged. In the more recent Russo-Japanese War many of the battles were of the

most deadly character. At the battle of Liau-yang the Russian losses in killed were nearly 20,979, and the Russian losses in kined were nearly 20,000, and the Japanese losses about 2,000. At Sha-75, the Russian casualties were estimated at 00,000, the Japanese at 15,000; and the battle of Mukden, in which nearly a million soldiers were engaged, was even more sangularry. It is too soon to give accurate figures in regard to the battles of the present war. (1914-15), but the engagements have been enormously (1914-15), but the engagements have been enormously more fatal than those of any previous war recorded in history. In less than twelve mouths more soldiers have been killed than in all the Napoleonic battles put together, and one single battle is responsible for the loss of more lives than were sacrificed in the entire Boer War, the numbers engaged and the entire Boer war, the numbers engaged and the terribly destructive character of the guns, shells, bombs, and other instruments of death being on a scale and of a nower never heave before become into scale and of a power never before brought into

Battue is the term applied to the modern practice of employing beaters to force game to a certain point where sportsmen are in waiting with guns to shoot it. Bauble, a short stick or wand, surmounted by a representation of a human head, ass-cared, carried by the fools and jesters of olden days.

Bauxite, a mineral mainly consisting of the oxides firon and aluminium.

c'iron and aluminium.

Bawbea, arrold Scotch copper coin, equivalent to one halfpenny of to-day,

Bayeux Tapeasry is believed to have been wrought by Wilham the Conqueror's Queen, Matilda, and represents 72 scenes relating to the Norman Conquest. It is 220 feet long by 20 inches wide, and was executed for Bayeux Cathedral.

Bayonet, a weapon taking its name from Bayonne, where it was first made about 1660. It was originally fitted into the gui-barrel, but General Makay, in 1689, introduised the socket-bayonet, which allows the guin to be firred with the bayouet fixed. the gun to be fired with the hayouet fixed,

Bay-salt, a coarse kind of salt obtained from the salt marshes of certain parts of the English and other coasts, and drawn from sea-water allowed to settle in salterns or salt ponds.

Bay-window projects and is usually semi-octagonal or semi-heragonal in plan; the bow-window forms

the segment of a circle.

Bdellium, a kind of gum-resin formerly used in medicine. It is of bitter taste and strong odour.

medicine. It is of bitter taste and strong ordor.

Bdellometer, a cupping-glass, fitted with a scanfier and exhausting syringe; substituted in surgery for the cupployment of the living leech, and preserving for examination the blood drawn.

preserving for examination the foliod cirwin.

Beacon, a fire-signal, given from the top of hills, was much in use in early times. According to the "liaad, Againemon thus signalled the fall of Troy to Mycene; and the English signalled the approach of the Spanish Armada. On many prominent parts of our coast, and on inland heights, beacon-pais were erected when a French invasion was feared.

Beads have been used as personal ornaments from the earliest times, valuable specimens having been found in the tombs of the ancient Egyptians. They are made of various materials, from precious stones to glass. In the latter form they have been and are much used as objects of batter in dealing with uncivilised race

Beagle, a small hound that tracks by scent, and formerly used for hare hunting.

Beans are the seeds of certain food-plants of many varieties, and include the common bean, the French varieties, and include the common bean, the French bean, the kiduey bean, or haricot. India and South America yelid special species. All beans possess a high proportion of nutritive qualities, the common bean excelling wheat in that respect. The Greeks and Romans used white and black beans in balloting for magistrates, the black meaning an adverse vote

Bear, lear, a genus of mammals of the Plantigrade section of carrivora, using the entire sole of the foot in walking. Found in most parts of the globe secure Australia. The common brown bear was once spread over the whole of Europe, including England, but now is confined to the northern forests of Europe and Asia. The black bear of America is nearly allied to the brown species. America has also a larger kind, the grizzly. In the Arctic regions the polar bear forms a distinctive species, and differs from the rest in being exclusively carnivorous. The other bears feed mostly on roots, fruits, honey, etc. Bear-baiting was one of our "Old English sports," but was made liegal in 1835.

Bear-bind, the English name for Calystegia, a genus of convolvulus, called also "hooded bind-weed."

Beared is one of the distinctive sleave of manpod, and

of convolvulus, called also "hooded bind-weed."

Beard is one of the distinctive signs of manhood, and
was regarded as a sacred possession by ancient
races. The jews were proud of their beards and
wore them through the days of their Egyptian
bondage, though the Egyptians shaved. The
Greeks and Romans of the ancient days mostly
shaved, and the term barbarous (beard-wearing) was
arched for a long needed to neonly who were conshaved, and the term barbarous (beard-wearing) was applied for a long period to people who were considered out of the pale of polite society. Still, beards were largely worn even then, and came to be associated with wisdom. Alexander the Great prohibited beards among the soldiery, and soldiers all countries have since been generally beardless. Beards have been taxed occasionally, as in Russia better the Great; and at an earlier date in England. In modern times beards have been worn or unworn as a monarch or male leader has, for no particular reason, sot the example. Shaving of the beard continues to be largely practised in all ranks of life in this country, though the moustache, once despised by the English, has now been in vogue for many years. Bearded women occur occasionally, and have sometimes been exhibited.

years. Deartned women occur occasionary, and have sometimes been exhibited.

Beau-ideal is a conception of the mind, of some perfect object free from all shortcomings.

Beauxite. (See Bauxite.)

Beauxite. (See Bauxite.)
Beaver, a genus of mammals of the Rodentia order, with short, scaly ears, and webbed hind feet. Attains a length of from 1/2 to 3 feet, and lives in communities where possible, as in North America, constructing dams and habitations. Beavers are found in Russia and Poland. Beaver skins are of considerable commercial value, but are not imported as lergely as formerly, other skins besides that of

considerable commercial value, but are not imported as largely as formerly, other skins besides that of the beaver being now used for hat making.

Bed of Justice, the seat occupied by French kings in their House of Parliament, but not used later than 1787, by Louis XVI. at Versailles.

Bedohamber, Lords of the, are twelve members of the royal household, who wait in turn upon the Sovereign on State occasions. They are controlled by the Groom of the Stole. Each lord receives £1.000 a year, and the Groom of the Stole £2.000.

Bedford Level comprises parts of Norfolk, Surfolk, Huntingdon, Northampton, Lincoln, and Cambridge, generally called the Fens, 70 miles long and 20 to 40 miles broad. It was wasto until reclaimed and drained by two Dukes of Bedford in the 17th century, but now is for the most part fertile agricultural land.

Bediam (a corruption of Bethlehem) was a priory in Bediam (a corruption of Bethlehem) was a priory in Bishopsgate, afterwards converted into a hospital for lunatics. The asylum was transferred to St. George's Fields, Lambeth, in 1815. The term "bed-lamite" came to be applied to any person behaving like a madman. (See Abraham-man.) Bed-mouldings, the mouldings of a cornice in Roman and Grecian architecture occurring im-

Roman and Grecian architecture occurring immediately beneath the corona.

Bedouins are Arabs who live in tents and are spread over the whole of Northorn Africa and Western Asia. They are divided into independent tribes, each governed by its own sheikh. They live on their flocks and herds, rice, etc., and are prone to robbery. Supposed to be the descendants of Ishmed.

Bedrape, an ancient term signifying the day's work in harvest-time exacted from tenants by their overlord in the fikudal period.

lord in the studial period.

Bads are of ancient origin, and came in with civilisation. In ancient Egypt, Greece, and Rome they were used, and the form has remained much the same in all ages. The Anglo-Saxons had wooden beds in repeases, the bedding being of straw. The "four-poster," which remained the model for many canturies was introduced to the Advance. turies, was introduced in the 16th century, and many

handsome specimens of carved and heavily draped beds of this kind, on which kings and queens have slept, are still preserved. At the Rye House they allow the Great Bed of Ware, capable of accommodating a dozen people, and said to have belonged to Warwick, "the King-maker." It is of oak and bears the date of 1463. Within the last half-century, metal has come into general use for bedsteads—iron, brass, and steel being used. The advantages they possess are many. In the natter of bed equipment—bedding, mattresses, etc.—the improvement has been marked in recent years. The old-time feather-bed still

are many. In constitute of hed equipment—bedding mattresses, etc.—the improvement has been marked in recent years. The old-time feather-bed still remains for those who appreciate the luxury, but health is best promoted by harder substances.

Bea. a familiar family of insects of the Ilymenophera order, mentioned in the Bible and by many writers of antiquity, and a most interesting object of study. Aristotle and Virgil in ancient times, and Lord Avebury and Maeterlinck in recent times, have described their industrial queendons and forms of government. The hives are tenanted by the queen bee: working bees, or neuters, being imperfectly developed females; and drones, males. The worker do all the honey gathering and storing, and the constructing of the cells, which are divided into store cells and egg cells. The queen—and there is but one queen to a hive—only lays eggs and governs, obtaining complete obedience from the workers. The drones form less than one-tenth of the population of the hive, and their lives are over in about three months. At the proper time, and then only, the queen quits the hive for her "nuptual flight," followed by the drones, which gather round her in the air. After impregnation she returns to the hive, and begins to fulfil her mission of egg-laying, depositing ogg after egg at the rate of some 200 a day in the cells prepared for them. The eggs which produce the workers are first laid, then those of the males, and finally those of the females. The process of hatching the perfect insect takes about 21 days. When the new queens arise among the new comers, the old queen tries to destroy her rivals; and where there are more than one young queen, the same ennity exists between them, and in apiculture they the oid queen tries to destroy ner rivais; and where there are more than one young queen, the same ennity exists between them, and in apiculture they have to be separately guarded and liberated singly at wide intervals. Each queen attracts to herself a swarm of her own, and in this way other bee colonies get formed in fresh hives.

get formed in ress filves.

Beach. The common beech is one of the finest of our trees, with massive trunk and smooth, shiny bark. Its horizontal branches, covered with close foliage, make a deep shade. Its wood is rather brittle, but capable of being utilised in the manufacture of many industrial articles.

industrial articles.

Bea-aater, a pretty bird of the genus Merops, frequent in North Africa, and an occasional British visitant. It has a black-bordered yellow patch on the throat; but is mainly brownish red, with blue markings on the head, and has long tail-feathers of a greenish hue.

a greenisn nue.

Beat-eater is the name given to the Yeomen of the Guard. They originally formed part of the guard of Henry VII. The word is a corruption of buf-latter, one who attends the buffet. Their dress dates from Henry VIII., who, some have said, made them dress in thick costumes so that they might lead to the said was the said the said was a said to the said was a look as fat as himself.

Beef Sues Tree, a shrub of the olcander genus, common in the United States (Shepherdia argentes), called sometimes also the Buffalo-herry.

Beels, a tool of the pick order, specially designed for

the use of miners.

Bealsebub, corruption of Baal or Bel, whom the

Bealmabub, corruption of Baal or Bel, whom the Phillistines worshipped at Ekron.

Bear, a liquor made by fermentation from malted barley and hopa. A similar drink was known in Egypt long before the Christian era, and was probably introduced into Great Britain By the Romans. Beer contains from a to 5 per cent. of alcohol. Ale, small beer, and bitter beer are varieties depending on strength and proportion of hops. Porter and stout are prepared like beer, but owe their peculiar favour to the use of a proportion of math heated so as to convert part of the sugar to carunel.

Beer-money was payment to non-commissioned officers and soldiers in the English army in lieu of beg or spirits, but abolished in 1873 and pay substituted.

Beesha, a genus of hamboo indigenous to the Malay Archipelago and Chittagong, having the seeds en-closed in a fieshy pericarp.

Archipelago and Chittagong, having the seeds enclosed in a fieshy pericarp.

Beenwax, the secretion of the bee, used for the formation of the cells or honeycomb of the hive; when melted it is what is commercially known as yellow wax, white wax being made by bleaching. Being impervious to water, it acts as a good resistant and is an article of med utility.

Beaswing is a fine filmy tartar formed by age in port and other whee, so called from the fanciful resemblance of the deposit to a bee's wing.

Beat, a genus of plants of the Chenopods order, and a native of the shores of the Mediterranean, but now cultivated as a food, pickle, and vegetable. The leaves of the white beet are used like spinach. The red variety has a thick root, and it is estimated that 12 per cent. of its whole weight is sugar, hence the rise and growth of beet sugar.

Beatle, an order of coleopterous (or sheathed-winged) insects, comprising over 150,000 different species. They possess two pairs of wings, the hinder ones being but rarely used for flight. They mainly remain concealed during day-time, and are found and, in water, on plants, among stones, in the ground, and in wood. They feed on animal and vegetable matter, and have a value in destroying noxious invects and putrelying substances.

Beg or Bey is a Tartar and Turkish title (equivalent to prince, or chief) given to superior military officers and distinguished foreigners. The latter form of the

Beg or Bey is a Tartar and Turkish title (equivalent to prince, or chief) given to superior military officers and distinguished foreigners. The latter form of the word, bearing an analogous meaning, is commonly met with in Tunis and Northern Africa generally. Begum, a Turkish lady of princess rank, or a female relative of a native Indian ruler.

Begum, a Turkish and yo princess rank, or a remaine relative of a native Indian ruler.

Bahemoth is the name of a arge four-footed beest referred to in the Book of Job; probably the hippopotamus, but by some considered to be the elephant, and by others the rhinocers.

Bahring Bea. Arbitration, between Great Britain and the United States, in regard to the seal fisheries, took place in 1893 in Paris, resulting in the sea being declared open beyond the territorial limits, according to the British contention, and in certain restrictions for the preservation of the seals.

Bel and the Dragon is the title of one of the apocryphal books of the Old Testament; or, more precisely speaking, certain supplementary chapters to the "Book of Daniel" of an apocryphal character. First appeared in the Septuagint, but the Jewish Church did not accept it as inspired. In 1816 the Council of Trent declared it to be canonical.

Belfry was in early times a kind of movable tower used in sieges for defence. Gradually the term was applied to any watch-tower or alarms-hell tower, and faully to any tower where a bell was lung.

inally to any tower where a bell was hung.

finally to any tower where a bell was lung.

Bal@m, the name given to the Teutonic and Ceitic
tribes inhabiting certain parts of Gaul and Britain in
and before the time of Julius Crean

Bell is, literally, "a hollow body of mefal used for
making sounds." Bells are usally made from bellmetal, an alloy of copper and tim. Small bells used
for interior functions are often usade of silver, gold,
or brass. Ordinary hand-bells are of brass. From metal, an alloy of copper and the Small bells seen for interior functions are often unade of silver, gold, or brass. Ordinary hand-bells are of brass. From the 7th century large bells have been used in England in cathedrals, churches and monasteries. The largest bell in the world is the Great Bell of Moscow, which weight 100 tons, is 10 feet high and of 6et round the rim. It was cast in 1635, but fell down in a fire and remained sunk in the earth until 1877, when the Emperor Nicholas caused it to be placed on a platform, and the interior of it is now used as a chapte. The largest bell in use is another in Moscow which weights 100 tons. The Great Rell at St. Paul's, cast in 1887, weights 171 tons, and is the largest in the United Kingdom. Other gleantic bells are the Great Bell at Peking (53 tons); Anaking (22 tons); Cologne Cathedral (23 tons); Big Ben, Westminster (13 tons); Great Peter, York Minster (10 tons). The Curfew bell is rung in some parts of England to this day, notably at Ripon. The number of changes that can be rung on a peal of hells is the factorial of the number of bells. Thus foug bells allow as and eight bells 40,320. For private houses of any pretentions, hotels, etc., electric bells are now generally in use, the old wire pull-bell being largely superseded.

superscuot.

Belladona (Deadly Nightahade), a well-known
poisonous wild plant found in Southern Europe and
Western Asia. The alkaloid atropine it contains is
valuable in medicine, although a large dose is

poisonous.

Bell. Book, and Candle To curse by "bell, book and candle" was a form of excommunication in the Romish Church ending with the words.—"Do to the book, quench the candle, ring the bell."

Belles-Lettres, a term that ombraces all descriptions of elegant literature—theoric, poetry, history, criticism, philology, etc.

Ben, or Benn, a Gaelic word signifying mountain or "mountain head." It occurs in many places in the British lelse, as Ben Nevis, Ben Lomond. Takes the form of Pen in Wales and Cornwall.

Benedicite, the hymn of the three chuldren in the fiery furnace, used in the morning service of the Church of England when the Te Denne is omitted.

Benedicitines are followers of St. Benedict, and I we at different times consisted of various religions orders, such as the Church of Canaldot in the such such as the solution of the such as the

- Live at different times consisted of various religious orders, such as the Cistercians, those of Canadoti and Vallambrosa, the Silvestrines and the Colestines, also the Præmonstratensians and the Grandmontensians. They were introduced into England at the beguining of the 7th century, and were called the Black Monks (not to be confounded with the Black Friars, who belonged to the Dominican order) because of the colour of their dress. Several Benedictine monastenes and convents still exist in the kingdom. There were also Benedictine nuns.

 Benedictus, a canticle used in the morning service of the English Church, and deriving its name from the first word of the Latin version, Benedictus, blessed.
- blessed.
- Benefit of Clergy, a privilege allowed in ancient times to clergymen offenders, exempting them how punishment by the ordinary courts and leaving the bishop's court to deal with them. The privilege was extended in Tudor times to all who could prove their ability to read, and Ben Jonson was among those who took advantage of this casy ordeal, after he had killed a man in a duel. Elizabeth withdrew most of the old privilege, however, and in 1827 the system was entirely abolished.

was entirely abolished.

Benefit Sociaties (see Friendly Societies).

Benevolence, a name given to demands made by certain English kings for loans from subjects of "corporations. Abolished in 1698.

Benewith Tree, the old name of the honeysuckie on both sides of the Sociitish Border.

Benefit Light is a blue signal-light, used at yea in time of shipwreck. It is of nitre, sulphur, and the black sulphide of antimony, in proportions of 6, 2, and 1 respectively.

- DIRECT SUIDINGS OF Antimony, in proportions of 6, 2, and 1 respectively.

 *Bannet Biscop.** (the 12th January) is the anniversary of the English St. Benedict, usually called Bennet Biscop. He first introduced Gregorian music, glass-making, mullioned windows, and painting, and was foster-father and tutor of the Venerable Bede.
- Benthamism, the philosophy of Jeremy Bentham, the essential principles of which were that the end and aim of human life is happiness, as exemplified in and aim of human life is happiness, as exemplified in the presence of enjoyment and the absence; of pain. Communities and individuals, it taught, should strive after the greatest happiness of the greatest number, the affort to achieve the greatest good of all being accounted in itself the highest morality. Bennach, a compound of carbon and hydrogen, discovered by Faraday, and the starting-point in the production of aniline dyes.

 Bennois Acid is produced by heating gum-benzoin and condensing the vapour, and by other means. Of use in bladder diseases.

 Bennoin, a gum-resin used in perfume making, and obtained from an East Indian tree (Styras bennoin).

Has numerous commercial uses, and is employed medicinally in chronic lung complaints.

Berberine, a basic substance, extracted from the bark of the gracinheart tree of Guiana, valuable medicinally as a febrifuge and tonic in substitution for curries.

for quaine.

Berbers is the name given to the inhabitants of the
mountainous parts of Barbary and the northern
portion of the Sahara, who are supposed to be the
descendants of the aborigines of North Africa.
They live mostly in the fastnesses of the Africa
Mountains, and number about 4,000,000.

Bergarnot, an essential oil obtained from the rind
of a species of citrus grown in Calabria, and largely
used in perfumery.

Berlin Congress, held at the conclusion of the
Russo-Turkish War of 1898. All the Europeaa
Powers were represented, and the Treaty of Berlia
was the result.

was the result.

Berlin Decrees, issued by Napoleon I. in 1806, with the avowed object of destroying the commerce of Great Britain, by setting up a state of blockade

against this country.

Beryl, a mineral, of which the emerald is a variety.

Is yellowish, greenish yellow, or blue, and is found in veins which traverse granite or gneiss, or embedded in granite, and sometimes in alluvial soil formed from such rocks. Transparent specimens of this lapidary's gen are found in Brazil, of the best aquamarine description. The beryl of Scripture was probably the chrysolite or topaz.

Barsellum, a recently discovered chemical element

resulting from thorium doxide, and po-acssing immense illuminating power. Dr. C. Baskerville, of North Carolina, was its discoverer, and gave it its name in honour of Berzelius, the Swedish chemist

who discovered thorium

Bessemar Process, a metallurgic process super-seding puddling with certain descriptions of cast-iron, and for the manufacture of steely iron for many purposes. First disclosed before the British Asse clation in 1856; the process consists in the forcing of atmospheric air into molten cast-iron.

of atmospheric air into motten east-iron.

Betal, the leaf of an Indian climbing plant, of pungent, narcotic properties; much used by the natives of India, who chew it. It is destructive to the teeth, and reddens the gums and ilps.

Betalaham, the birthplace of Jesus and of King David, is now an inwalled village of white stone houses, about six miles south of Jerusalem. Famous for its Church of the Nativity, built like a cross, and below which is a crypt where the Saviour is said to have been horn. have been born.

letting—despite State and organised general effort—is more largely indulged in to-day than at any previous period, and exists among all nations. Numerous prohibitive laws have been passed in England with a view of minimising the evils of the practice; but so long as horse-racing remains a national pastime, betting is not likely to decline, it being in connection with racing events that betting is chiefly carried on. Professionalism, as evidenced in the operations of bookmakers and tipsters, is an element of harm, but such people have no legal status. Betting houses have not had legal existence in England since 1853, and since 1874 advertisements of such houses, whether in or out of the Kingdom, have been illegal. No restrictions are placed, however, on betting on racecourses and at private clubs, Batting-despite State and organised general effort ever, on betting on racecourses and at private clubs, so that one way and another betting continues among all classes, and instances are not few of "book all classes, and instances are not tew of "Dook makers"—operating on some sort of system that precludes the possibility of serious loss—having made large fortunes. The first to adopt any special method in betting was William Ogden, in 1793. In France, in order to discourage hookmaking, a mechanical system called the Farl-Mutuel is smoothed, which practically constitutes a lottery. Very large sums are frequently staked in England on the racing of horses, and many "plumping" young noblearge sums are requestly standed in England on true racing of horses, and many "plunging" young noble-chen and others have been ruined by the crase. Apart from racing, many odd bets are "ecorded. A man named Corbet, in the knee-breeches days, laid and won his bet that his leg was the handsomest

in the Kingdom. In George II.'s reign a bet was made that the slums of London could produce an uglier man than Heidegger, the King's Master of the Revels, and an old hag of St. Giles was produced who at first seemed to outdo the German in hidcousness of visage, but on a woman's bonnet being placed on Heidegger's head the palm of ugliness was at once awarded to him. Sir Mark Sykes, a Yorkshire betroutet, was giving a dinner party at his house in 1800, and, the conversation having turned upon Napoleon and the risks of assassination he ran, Sir Mark offered to pay any one, who would then and there give him 100 guiness. Sir Mark offered to pay any one, who would then and there give him too guineas, a guinea a day as long as Napoleon lived. A clergyman, named Gilbert, took the bet, pald the money down, and for three years afterwards continued to receive his guinea a day; then the squire repudiated the transaction, and there was a law-suit, the baronet winning on the ground that the bet was illegal. Where the betting propensity exists there is no event too trifling or too indicrous to form the subject of a wager. A Bill for the Suppression of Betting in Streets and Public Wesser passed through Computing in the House of Places passed through Committee in the House of Commons in 1906, under which an offender may be arrested without warrant.

arressed without warrant.

Bhang, a hemp plant containing highly narcotic and intoxicating properties. The natives of India chew its leaves and seeds, and the drug called hashtish is yielded by the plant.

Bible—The Old Textament and the New Testament.

ible—The Old Testament and the rew i continue.
The Old Testament—the prelistoric portion—consists of 30 books, and is divided into three parts: (1) the Law, (2) the Prophets, (3) Miscellaneous Writings. The Hebrew text as now printed is called the Massoretic. The apocryphal books, excluded from Massoretic. The apocryphal books, excluded from the Bible used by the Protestants, are accepted by the Roman Catholics. (See Apocrypha.) What is called the King's Bible, on which the Coronation oath is taken, includes the Apocrypha. The books of the New Testament were written in Greek, and are believed to be the work of the Apostics, or contemporaries, but there is no definite knowledge on the subject. The whole of the Bible was translated into Lattin (Viligate version) in the 2nd centary. Postician were translated into the Anglo-Saxon in the Portious were translated into the Anglo-Saxon in the Portions were translated into the Anglo-Saxon in the sht century, and the Venerable Bede put the greater part of St. John's gospel into English, but it was not until 1530 that a complete English werson appeared—the Coverdale Translation. The Authorised Version belongs to recent days (New Testament, 1887; Old Testament, 1887; Old Testament, 1887; Old the Authorised Version belongs to recent days (New Testament, 1887; Old English Christianent, 1886), but it has not entirely displaced the Authorised Version.

Bible Christians, a sect founded in Cornwall mains by Mr. W. O. Bryan, who had been a local preacher in the Wesleyan body. It obtained a large following, chiefly in the south-west counties of England, and was credited in 187 with 429 places of England, and was credited in 1654 with 260 places or worship, with a congregational aggregate of 34,612 at ovening service on a given Sunday. The latest roturn of Bible Christian communicants placed the total in Great Britain at 35,508. This particular 1-ree Church has now closed its separate existence by amalgamating under one governing body—the United Methodist Church—from the end of 1007 forward with the Methodist New Connection and

the United Methodist Free Church.

the United Methodist Free Church.

Bible Bediety is an association for spreading a knowledge of the Scriptures. The first is bolisved to have been founded in New England in 1649 and re-incorporated in 1661; whilst in Great Britain the Society for the Propagation of the Gospel dutes from 1701, and the Society for the Propagation of Christian Knowledge from three years earlier. A Bible Society was established in 1712 by Barun Hildebrand von Causten, at Halle. Our British and Foreign Bible Society was founded in 1864. The Religious Tract Society lass also had a long and useful career; and in 1861 the National Bible Society of Scotland was formed, though it should begatid of Scotland was formed, though it should be said that the Society in Scotland for Fromoting Christian Knowledge, had been incorporated as far back as 1799. The British and Foreign Bible Society devotes more than one-half of its e-penditure to diffusing the

authorised English version of the Bible. It has issued some 200,000 copies of the Holy Scriptures (complete and in portons) printed in nearly 400 different languages and dialects.

Bibles with Nicknames. Among the earlier versions of the Bible were many instances of curious misprints, and for the more scarce of these Bibles, nicknamed from their errors, a large price is realised whenever one is offered for sale. The Vinegar Bible in the late Duke of Cambridge's sale derived its appellation from the misprinting of the word "vinegar" for "vinegard". The Breeches Bible, also known as the Geheva, was issued in 150 with a preface by Calvin, it owed its name to the mention of a garment not usually associated, out of Scotland. preface by Calvin, it owed its name to the mention of a garment not usually associated, out of Scotland, with women—a garment now known as "aprons," Geness iii, 7. Mr. Gladstone had a copy of the Bishops' or Treacle Bible in his library at Hawarden. It was printed by Richard Jugge in 1572, and Joreniah viii, 22, in it ruis, "Is there not tryacle at Gliead; is there no plustion there?" And this volume has the variorum rendering, Judges 11x, 23, of "All to break his brayne panne." In another edition the rendering is, "But a certaine woman cast a piece of millistone upon Ablinelech's head and brake his brane pan." Lord Haddington has a copy of the "Treacle Bible" in his pew in Tynlighame Church, North Berwick, together with copies of the Bug and Breeches Bibles; and a copy was sold at Lord Ashburnham's sale, June, 1897. An early issue of the Bug Bible in 1555 gives halm xci, 5, as "need to be affrated for any bugges by night," but the issue of 150 has "atraid" for "affrated." The modern word "terror" was not the first substituted, "feare" appearing in the issue of 1608. In one Bible the word "notine" was used where "balm" now occurs, with a note "For at Gliead dul grow most souveraign halms for younds." Of Bibles which are reve of a garment not usually associated, out of Scotland, "rosine" was used where "bahn" now occurs, with a note "For at Gliead dud grow most souveraign bahne for wounds." Of Bibles which are rare, that of 1551 is sometimes said to be the scarcest. In 160s, what has been styled the "Wucked Bible" was published, receiving the name from its having the word "not" omitted from the Seventh Commandment. A similar error occurs m a small pear! Bulle of 1653, in which St. Paul is represented as asking "Know ye not that the unrighteous shall inherit the Kingdom of God."

Bibliomancy, divination by certain references at hazard to pages, lines, or verses of the Bible, and frequently resorted to in olden times.

Bioycle, a two-wheeled machine (successor to the velocipede of three wheels) which about 1880 came velocipede of three wheels) which about 1880 came into vogue. It then consisted of one high wheel, driven by pedals, and a small connecting wheel behind. In its present form, with two wheels of even circumference, pneumatic tyres, and effective gearing, it is a much more manageable affair, and has obtained a very wide adoption by all classes, young and old, male and female. The motor-bicycle is the latest form of this two-wheeled road machine. Bilboos, a word derived from Bilbao, in Spain, are long bars of iron, secured by a lock; and used for imprisoning oftending sailors on board ship. The bars clasp the feet. The punishment is styled "putting in irons."

"putting in irons."

Bill, in Natural History, is the horny, lipless, and toothless jaw of a bird, the upper and lower portions being generally equal, except in birds of programs being generally equal, except in birds of prey, when the upper is longer. The bill is used for seizing and dividing food, for fighting, nest-building, etc.

Bill of Rights, or Declaration of Rights, was the

document setting forth the conditions upon which the British throne was offered to William and Mary in 1688. This was accepted and ultimately became an Act of Parliament,

Billeting is a system of feeding and lodging soldiers and their horses by quartering them on the inhabi-tants of a town. It is a privilege that can be com-

taints of a town. At a a privage that can be compelled to be granted.

Billiards, a game played on a rectangular table with cues and balls. Louis XIV. made it fashionable. The earliest English description of it is in Cotton's "Complete Gamester" [1674]. Among the most

famous scorers are Roberts, Bennett, Peall, [©]Taylor, Dawson and Stevenson. (See Pears' "Dictionary of Sports and Pastimes.")

Binnacle, a table or box on which the compass of a

Binnacle, a table or box on which the compass of a ship is placed, and stands in front of the steering apparatus and steersman.

Biograph. (See Kinematograph.)

Biology deals with the phenomena of living matter, describing its properties, growth, changes and conditions. Starting with the protoplasm, it traces the operations of life through the various classifications, the metannorphoses undergone in plant and animal life, and their development, distribution, organism, and functions. The study of biology has in recent times been advanced in all directions—by naturalists, prologists, botanists, physiologytts, chemists, and others—and, studied as a whole by Darwin, Huzley, Tyndial, Wallace, and other brilliant scientists, now fills a large space in the scientific work of the time. Darwin's Origin of Species, formulating the theory fills a large space in the scientific work of the time. Darwin's Origin of Species, formulating the theory of evolution in plants and animals, greatly broadened the scope of biological inquiry, and led to a better comprehension of the causes of variation. In the same connection, the discoveries of Pasteur and Lister are to be noted, as whatever adds to our understanding of the laws of life is an extension of the science of biology. The investigation of such phenomena as sleeping sickness, under the auspices of a British Covernment Commission, and the subjection of micro-organisms to the influence of the emanations of radium, in various Continental and American laboratories as well as those of our own country, belong also to the recent activities of blological science.

biological science.

Birch, a genus of forest trees of the alder order, and only found in northern regions. In Britain the birch grows to goodly proportions, and forms one of the most graceful of our trees, with its drooping branches and egg-shaped leaves. It has a white bark, which is used for tanning, steeping nets, sails, etc. The Red Indians make cances of it.

Birdilms is an adhesive substance placed on twigs of trees, walls, wire netting, or el-swhere, to trap birtis, and is prepared from the middle bark of the holly, mistetoe, or distaff thiste. It is also made from flour admixed with other adhesives.

Bird of Paradiles, a bird alled to the crows,

Bird of Paradise, a bird allied to the crows, found almost oxclusively in New Guinea, the males having the most beautiful plumage of long branching

feathers.

Birds, or Aves, are, next to mammals, the highest order of animal life. They are vertebrate, warmblooded, oviparous, are covered with feathers, and blooded, oviparous, are covered with leatners, and possess wings. In construction they vary greatly, according to their classification and their conditions of life. Birds are of three distinct classifications—Carinate, possessing keeled breast-bones and having power of flight: Ratie, having raft-like breast-bones, and incapable of flight; and Saururar, a lizard-tailed genus, of which only one species has been known—the extinct archæopteryx.

Biratta, a four-cornered head-covering worn by ecclesiastics of the Roman and English Churches, and varying in colour according to the rank of the rearer. A cardinal's biretta is red, a bishop's purple, a priest's black.

Biscayan Forgs, a furnace (sometimes called a Catalan furnace), in which is obtained, directly from the ore, iron in a malleable condition

the ore, from in a maileable condition

Bishop is a Christian occlessatic or officer exercising supreme spiritual authority in the diocese or proyince to which he is appointed. In the Church of England there are at prevent 37 bishops, all nominated by the Crown. Two of these are archibishops—Canterbury and York. The bishoprica are as follows:—Archbishop of Canterbury, salary £15,000; Archbishop of York, £1000; Bishop of London, £10,000; Durham, £7,000; Winchester, £6,500; Ely, £5,500; Bath and Wells, Oxford, and Salabury, each £5,000; Carlisle, Lincoln, Norwich, Peterborough, and St. Davids, £4,500 each: Gloucester, £4,300; Bangof, Chester, Chichester, Exeter, Hereford, Lichheld, Liverpool, Liandaff, Manchester, Ripon, St. Asaph, and Wolcester, £4,000; Bur-

SISTULE, a Drittle, reddish-white metal found in various rocks, and readily fusible. Melts at a temperature of about 260° C. Chloride of bisnuth and nitrate of bisnuth are its chief compounds.

Bison, a ruminant animal, compresing the European and the American Isson. The former is found in Lithuania and the Ural and Caucasus Mins. The American bison is received to give the instruction in the contraction of th American bison is practically extinct in its wild state.

ittern, a bird of the heron genus, with long, loose plumage on the front and sides of the neck. It is a

Solitary bird inhabiting marshes, but rare in Britain.

Bitumen, a combustible mineral substance, the term embracing various mineral (so-called) oils and resins, such as naphtha, petroleum, mineral pitch, asphait, mineral acoutchouc, etc. Of the bitumen-impregnated resins, the most economically important—Elaterite—is only found in three places—the Odin lead mines, in Derbyshne; a coal mine at Montrelast, near Angers, in France; and a coal mine near South

lead mines, in Derbysline; a coal mine at Montrelais, near Augers, in France; and a coal mine near South Bury, in Massachusetts
Bivalvas, a term applied to shell-fish whose shell consists of two valves, lying one on each side of the body, such as mussels, oysters, and cockles.
Blackbird, or Merle, a familiar song bird in Britain, Europe generally, and parts of Northern Africa.
Blackbook, the male of a variety of black-feethered grouse, abundant in Britain and Scotland, almost as large as an average domestic fowl. It has touches of white on wing coverts and under the tail.
Black Death, a fierce epidemic or plague, which carried off thousands all over Europe in the 14th century, one-third of the upopulation of Engiand dying from it. This terrible disease has disappeared, happily, as mysterously as it made its appearance. Its appalling virulence may have been in a measure attributable to unsamitary conditions.
Black Hole of Caloutta was the place where a number of Engish were confined in 1756 by order of Suraj-ul-Dowlah. Into a noisome space, 20 ft. square. 145 persons were driven, and only 23 were found alive the next morning.
Blackland, a composition of powdered boneblack, oil, raw sugar, or molasses, vinegar, and sniphuric acid, greatly refined and improved in recent years, and used as a boot and leather polish.
Black-lead, graphite or plumbago, a unieral found in Norway. Siberia, Spain, Canada, the United States, Ceyton, etc.
Blankets of the best and thickest kind are com-

Black-letter, the Uld English or Gottnic type first used in printing books.

Blankets of the best and thickest kind are composed wholly of wool, but what are known as "Union" blankets are of cotton warp and wool weft, the cotton being hidden by the process of "teazing" which brings the woollen pile to the surface.

which brings the woollen pile to the surface.

Blast-furnaces were invented by Darby early in the 18th century, and had the effect of bringing coul into general use as a furnace fuel. Wood had been previously used. The hot-blast introduced by Nelison in 1828 was a still further inprovement, the temperature of the air being raised to from 600° to 1, 100° by passing through heated pipes.

Blasting a method of foosening or breaking masses of solid matter, accomplished by means of explosives Bleaching, the art of whitgening textites. The old method—still continued by some manufacturers—was to bleach by exposure to the sun; but chemical bicaching is now general, chloride of lime being utilised for the purpose. Sun-bleached input has advantages in durability that are not possessed by chemically bleached fabrics.

**Bleache (commonly called Black Jack) is a principal.

Blande (commonly called Black lack) is a principal

ore of zinc, and is widely distributed. It is a sulphide

of zinc.

Blenny, a group of marine fishes with spiny rays.

part of the fin running along the back. Several
species are found around the British coast.

Blight, a noxious influence exerted upon vegetation
by mauspicious atmospheric conditions, or by the
attacks of parastic fungl, or injurious insect life

Blind People. There are about 1,200,000 blind
people in the world, the most serious sufferers from
this afficient being the natives of our Indian Empire.

this affliction being the natives of our Indian Empire, this ametion being the natives of our motion rimpire, whose billed number 443,653; Russia in Europe comes next with 247,000; then Egypt with 148,260. In the United Kingdom there are about 33,000 bluid persons, over 35,000 of whom belong to England. The proportion of bluid people to each million milabitants is portion of Dinid people to each minion immensions in highest in Egypt, 13, 133; in Russan it is 1,492; in India 1,408, Bulgaria 1,339, Spain 1,275, the United Kingdom 790. Belgum is lowest with 429 per million, Many organisations exist for the benefit of the blind.

Blind-worm, or Slow-worm, a reptile of the lizard order. Found in most parts of Europe; non-venomous. Its principal food is the slug.

Blockade, an operation for capturing a town or

BIOCERACE, an operation for capturing a town of rotress, preventing the besteged from receiving supplies. A naval blockade linders the entrance or egress of the enemy's ships from a port.

Biockhouses form an important feature of guerilla warfare. The houses are of logs or corrugated iron, and covered in with earth to render them fire and bomb proof, and loopholes are made for firing through, Arranged in lines, and surrounded by harbed wire fencings, with a line of troops aiming at trapping the

enemy, effective captures are often made.

Blook-system, on relivays, establishes a method of signalling whereby the distance between two signal loves can never be occupied on the same line of rails

loves can never be occupied on the same line of rails by more than one train at a time.

Blood, the life-giving and sustaining circulating fluid of animals. In animals having a backbone at is red; in the lower animals it is colourless. Blood is either arterial or venous; that is, either contained in the arteries which carry the fluid from the heart to the tissues, or in the veins through which it is returned to the heart to be re-purified. Under the microscope, blood reveals a composition of nearly colourless liquid and a large number of corpuscles, some red, some white. The red corpuscles distribute the oxygen from

white. The red corpuscies distribute the oxygen from the lungs, the purpose of the white corpuscies remains something of a mystery Bloodhound, a dog celebrated for its keen scent, and deriving its name from its power of following a trail of blood. Bloodhounds are sometimes used for hunting, and for tracking fugitive criminals Bloods agrees variety of quartz, snotted with

nunting, and not tracking ingrive criminals

Bloodstone, a green variety of quartz, spotted with

jasper, like blood-drops. A kind of harmatic iron-ore
used for burnishing is also called bloodstone.

Bloody Assiss, the special series of trials presided
over by Judge Jeffreys, when over 300 prisoners who
had been concerned in the Monthouth Rebellion were sentenced to death under circumstances of atrocious cruelty, and nearly 1,000 others were con-demned to be sold as slaves.

Blowpipe, an instrument used for driving a blast of air or gas into a flame to increase its temperature. Used in soldering metals, and in analytical chemistry and inineralogy for accertaining the nature of a

substance under great heat

Blue-bird, a habitant of North America, deriving its

Blue-bird, a habitant of North America, deriving its name from its deep blue plumage. It is one of the few song birds of America, and is a familiar object of the woods from the early spring to November.

Blue-books are Acts of Parliament, reports, or papers issued by order of Parliament, reports, or papers issued by order of Parliament, and receive the name from their usually being enclosed in blue covers. Blue-books have been issued since 1881.

Blue-books a name gometimes given to the blue-throated warbler (Parliach resuscient), a pretty little native British birds.

Blue-coat School. (See Christ's Hospital.)
Blue-gum, a species of Australian tree, yielding
eucalyptus oil, an antiseptic medicament of great
use in bronchial affections.

Blue Monday, the Monday immediately preceding

Lent, when in the 16th century, many churches were bedeceled internally with hangings of blue.

Blue-peter, a flag of blue, with a white square in the centre, used by Brush seamen as a signal for saling, for recalling boats, etc.

Blue Ribbon, a term in general use to express the flighest prize in any form of competition, the Derby lebng the "blue ribbon" of horse-racing, and so on. The expression is derived from the highest order of Hnglish knighthood—the Garter—which has for the clief part of its insignia a garter of blue velvet. Blue-sbooking, a mane given to women of literary pretensions. The term was first applied to the members of a London literary club formed in 1750. There was a Bas-hieu Club in Paris.

Blue Yliziol, sulphate of copper, used for dyeling Blue Yliziol, sulphate of copper, used for dyeling

Blue Vitriol, sulphate of copper, used for dyeing purposes, principally for after-treating certain dyed

purposes, principany for aircrateaing section, colours to render them fast.

Blunderbuss, a short, bell-mouthed musket with wide bore, capable of fring many balls at once, and much used in the 17th century.

much used in the 17th century.

Boa, a term applied to a family of snakes of large size, some attaining a length of 30 ft. They are not poisonous, but kill their prey by crushing—constriction—hence the name "boa constrictor." They occur both in the Old World and the New.

Boar, or Wild Hog, an animal largely distributed over the forest regions of Europe, &isa, Africa and South America. It has a longer shout and shorter ears than its descendant the donestic hog, and is provided with tusks. Having to forage for fixelf, it is a more active and little light animal than the use of

ears than its descendant the domestic hog, and is provided with tusks. Having to forage for itself, it is a more active and intelligent animal than the pig of the sty, and ofters good sport to the hunter.

Board of Trade, a department of the British Government forning a permanent Committee of the Privy Council and presided over by a member of the Cabinet. Its constitution dates from 1786, but the husiness of the office is wholly controlled by the President. A Committee appointed in root to inquire into the position and duties of the Board of Trade recommended that the President should be on the same footing as a Secretary of State, with the title of Minister of Commerce and a salary of £5,000.

Minister of Commerce and a salary of £5,000.

Minister of Commerce and a salary of a recommended that the President should be on the same footing as a Secretary of State, with the title of Minister of Commerce and a salary of £5,000.

Min

spinning or sewing.

Bobierrite, a colourless mineral, found in Peruvian guano in the form of six-sided prisms; a tribasic

phosphate of magnesis, it is named after Bobierre, who first described it in 1868.

Bode's Law, an astronomical law discovered or confirmed by Bode in 1778, which indicates the relative distances of the planets from the sun. Thus, reastive uscances or the plantets from the sun. Thus, we write the numbers: --o, 3, 6, 12, 24, 43, 95; each, after the first, doubling the one preceding it. If 4 he added to each of these numbers, they give the numbers 4, 7, 10, 16, 26, 52, 200; these totals being, approximately, the distances at which the principal plantets are apart from the sun, the real distances here?

Mercury, Venus. Earth. Mars. Jupiter. Saturn.

There is only a failure in the 28.

There is only a failure in the 28.

Bodielan Library, connected with the Oxford University, and named after Sir Thomas Bodiely, who in 1936 restored and added greatly to its treasures. A copy of every book published in the United Kingdess has, under the Copyright A. is, to be sent free to this library.

the Boers invaded Natal, to the asst May, 1902, when

the Peace Treaty was signed at Protoria. At first the operations of the British troops, under General Buller in Natal and Lord Methuca in Cape Ce 701, were unsuccessful, and disastrows reverses were sustained at Magersfontein, Stormberg, and Colenso. Lord Roberts was then sent out as Commandes in Chief, with Lord Kitchener as Chief-of-Staff, and from Felbruary, 1900, when Kimberley was relieved, the campaign was steadily pursued on victorious lines. Cronjé surrendered a few days later. Ladysmith and Mafekung were relieved, and after that the struggle was mainly of the guerilla order. 302, a piece of marshy greund, upon which it is

Bog, a piece of marshy ground, upon which it is difficult to base a firm foundation. There are many in Ireland, but few remain in England, by reason of the effective drainage systems that now exist.

Bog Iron-ore is a kind of brown hæmatite found largely in the peat bogs of Ireland.
Bog-oak, a kind of oak that is found buried in peat

gs, and is of a deep black colour throughout.

Bohemian Brethren, a rengous society of the 18th century (Hussies), who were persecuted and compelled to worship in secret. Prague was their headquarters. The Moravians sprang from them.

headquarters. The Moravians syrang from them.

Boiler, a vessel of wrought from or steel in which steam
is generated. Generally the globular shape has been
adopted; the marine boilers are cheese shaped, and

adopted; the manue boilers are cheese-shaped, and the locomotive boiler is constructed with the multitubular flue, the fire-hox being placed at one end, Boiling-point is the temperature at which the pressure of the vapour is equal to the pressure of the atmosphere. Under increased pressure the b.p. ness and under less pressure, as on the top of a mountain, it is lower. As represented on the Centigrade scale, the b.p. of water is no? a clockly, By and ether, 35%. On the Fahrenheit scale, the b.p. of distilled water is no?. Belle, a red clay containing only the second property is not the second property of the second property is not to the second property in the second property is not to the second property in the second property is not to the second property in the second property is not to the second property in the second property is not to the second property in the second property is not to the second property in the second property is not to the second property in the second property is not to the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second property is not the second property in the second pro

Bole, a red clay containing oxide or iron, much used m adulterating articles of food that are naturally red. There are several varieties: Armenian, Blois, There are several varieties: Armenian, Bohemian, and French, differing in their shades

Bombs are hollow iron (or other metal) balls, charged with explosive material and fired by clockwork or other mechanism, or alternately by a time fuse.

Bonol, an antiseptic oil combining disinfectant and

healing properties

Books were originally formed, it is supposed, from
heach-bark. At first, collected writings were produced in the form of rolls; then in volumes; and, when the art of printing spread, they began to be issued in bindings upon the principle still in vogue. The earlier books were massively bound, with metal clasps and bands, and samples centuries old survive to show the durability of their workman-lip. Books are technically described, according to their sizes, as 400, 8vo, (quarto, octavo), and so on, the names indi-cating the number of folds in a sheet. Thus, when a book is printed on a sheet folded in half, it is known as fulso and consists of 4 pages; doubled in half again, it gives 8 pages, and is quarto size; doubled once more it is a 'avo and consists of 16 pages; and by a further doubling we get zomo; while other

methods of folding give ramo, 18mo, 24mo, 35mo, etc.

Book of Common Prayer contains the services
of the Church of England, and is in the main the
same as that of Edward VI., with modifications intro-

duced at later dates.

Book of the Desd, a book of ancient Egyptian prayers, copies of which have been found in mummy

Boomerang, a weapon used by the Australian aborigines, made of wood, in the form of a parabola, one side flat, the other round. When throw: forward into the air, it whirls round and rebounds behind the point from which it was projected. Used both as a mussle of war and for killing game.

Borax, the bluorate of sodium, found in Peru, California, Tibet, and elsewhere; it acts as a mild alkall upon the alimentary canal and makes a useful carefe

upon the alimentary canal, and makes a useful gargle in inflammation of the throat and mouth membranes.

and is also a valuable preservative of food.

Sororos, a race of men of an average leight of

6 ft. 4 in., inhabiting a region in the south-west of Brazil

Borough English, an English custom still obtain.

ing in a few ancient places, whereby, in default of a testamentary disposition to the contrary, landed property descends to the youngest son in exclusion of elder brothers,

of elder brothers.

Botany is the science of the vegetable kingdom, and its broad classifications comprise Structural Botany, Physiological Botany, Systematic Botany and its broad classifications comprise Structural Botany, Physiological Botany, Systematic Botany and Economic Botany, terms which explain themselves, Plants comprise an axis or main shaft, which bears the branches, leaves, and flowers; the root, which is usually in the ground, is the medium by which the nourthing substance necessary to the plant's life is obtained from the earth. The stem is the leaf-bearing part of the plant; when hard, it is called woody, when soft, herbaccous. Branches are shoot from the stem and of the same structure: leaves woody, when soft, herbaceous. Branches are shoots from the stem, and of the same structure; leaves grow from the branches, and are of various forms. A leaf comprises two parts, the stalk and the lilade. The flower is a clusterous modification of leaves which becomes the medium of the plant's reproduction. Plants are flowering or non-flowering.

Bouleward, in its original significance, meant the rampart of a fortified city; it is now given to any important thoroughfare planted with troes, especially in Plant.

in Pars.

Bounds Beating, an old custom still occasionally indulged in, and taken part in by the parsh clergyman and officials, who on Ascenson Day make the round of the parsh boundaries with long sticks of willow, with which they beat the ground at the more important boundary points.

Bounty is an extra recompense given as an irducement to the performance of any special service or work, and in particular to soldiers and sailors.

Bow, an instrument for propelling arrows, and in the days when it was a weapon of war, was usually made of yew or asl, and was about 6 feet long, with an arrow 3 feet. It was the weapon with which Creey, Potters, and Agincourt were won. The cross-bow was Italian and was adopted in France, but did not become popular in Britain. For its use in archery as a diversion, see Pears' "Dittionary of Sports and Pastames

Bow Bells is the peal of the London church of St. Mary le-Bow, Cheapside, within sound of which one must be born to be entitled to be called a "cockney"

Bower-bird an Australian bird which constructs Bowle-knife is a long one-edged kine of great which it resorts more especially during the breeding seaon, though not laying it eggs there. Bowle-knife is a long one-edged kine of great strength, invented by Col. Bowie, and much used in

America at one time.

America at one time.

Box, a well-known plant bearing a very hard and fine wood, and common to both Europe and Asia. It is of two varieties—a shrub that grows 8 or no feet high, and a dwarf vanety used for garden edging that only grows to a height of a few linches. Box is the best medium for wood engraving, and in the North of Europe and a used for here's feed on bulk 16 of the of England is used for knurrs (wooden balls) for the

game of "knurr and spell."

Boxers, a section of Chinese who in 1896 rose against foreigners and were guilty of many massive to the control of the control o sacres and atrocities, the movement being especially directed against unssionaries. A combined European force was sent out against the Boxers in 1900, and not only was the rising suppressed, but large indemnities were demanded and conceded.

Boxing Day is the day succeeding Christinus Day, and gets its name from the custom of giving Christinus boxes on that day. It is a Bank Holiday in England.

boxes on that day. It is a Bank Hofiday in England.
Boyoots, a term used in connection with a person
that the general body of people, or a party or
society, refuse to have dealings with. Originally
used when Captain Boycott was declared apart from
recognition by the Irish Land League.
Boy Soutts. See Bootts.)
Boys' Brigade, a movement connected with
churches, missions, and Sunday schools for giving
military training to boys from 12 to 18. There is a
membershup of from 50,000 to 6,000 in the United
Kingdom, and the total strength throughout the
world amounts to nearly so,000.

Bracelets have been in use as personal ornaments

from the most remote times. They are frequently referred to is the Bible, and were worn by men as well as women in ancient Egypt. In modern times they have attained great beauty and variety of four and sotting, and, decked with gons, constitute a rich

adomment to a well-shaped wrist.

Brahminism, the chief religion of the Hindus, is an adaptation rather than an adoption of the doctrine set down in the sacred books of Vedas, and was set down in the sacred books of Vedas, and was built up on the system of caste. In Brahminism there is a supreme God, with a Divune Triad consisting of Brahma, Vishnu, and Sva. There are four castes: the Brahmins, or priests: the Kshatryas, kings and solders; the Vansyas, who are tratery, and the Sodras, or slaves. Many other divisions and subdivisious of caste have been developed from these four, and the preservation of caste is regarded as a Hindu's foremost duty.

Brake, the common English name of a fern of the Preris genus of Polypodiaceae, of abundant and vigorous annual growth.

vigorous annual growth

Brambla is another name for the blackberry bush, of which there are over 20 species in Britain, and numberless varieties.

- Branding for crimes is still common in some countries, and was not entirely abolished in England until 1822.
- Brandy, obtained by distilling, is chiefly prepared
- in France, the Cogner variety being the best.

 Brandywine. Battle of, fought between the British and the Americans in 1777 resulting in victory for the former.
- Brank, a sort of bridle, with gag, which in olden times used to be fastened to the head and mouth of scolds as a punishment, the offender hung compelled to parade the streets and stand at the market cross.

Brass is a compound metal containing two-thirds of copper to one-third of zinc, and, while being harder

- than copper, is more easily worked.

 Brase, Monumental, an engraved plate of brass let into or affixed to the grave-slabs of more or less important persons, in many ancient churches, and bearing representations of their effigies, armorial
- beauge telescent of a large myrtle common in Brazil, and grown in clusters of from lifteen to fifty nuts, enclosed in huge woody coverings.

 Bread-fruit True is a native of the South Sea Islands, and supplies the natives with a wholesome food. The fruit is the size of a meion and contains a contain which is created before being white puspy substance, which is roanted before being eaten. The plant has been successfully acclimatised in the West Indies.

Breakwaters are artificial structures of stone or concrete built across the entrances to harbours to stay the force of the sea and leave the inner portion

- stay the force of the sea and leave the inner portion calm and safe for ships. There are fine breakwaters at Plymouth, Dover, Aberdeen, and other places. Breading, in one of its senses, implies the art of improving animals by selection or treatment intended to produce certain special qualities of their progeny. It is an art that has of late years been practised with highly successful results, in the breeding of horses, sheep, cattle, fowls, cage-birds, fish, economic insects," etc., some of the results reached being very remarkable, almost amounting to the production of new soncies.
- very remarkable, almost amounting to the production of new species.

 Brewat is a special commission entitling an officer to a rank in the army higher than that which he really holds in his own regiment, without increase of pay.

 Brewiary (meaning abridgement) is the short service book of the Roman Catholic Church, and in service book of the Roman Catholic Church, and in service book of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the contract of the Roman Catholic Church, and in the Roman Catho

its present form was fixed by Pope Pius V. in 1568.

its present form was fixed by Pope Pius V. in 1568.

Frewing is the art of preparing a fermented beverage, chiefly beer and ale, from an infusion of grain. Intoxicating drinks have been brewed in all ages and countries from the most remote times. In Britain, brewers have been among the nichest of our clitizens, and several prominent members of the body have been enmolted. There are in the United Kingdom nearly 5,000 breweries, over 5,000 of which do not produce 1,000 barrels each a year; while one firm brews over 9,000,000 barrels, and another firm 1,000,000 to 1,000 barrels. The and another firm 1,000,000 to 1,500,000 barrels.

tendency is for amalgamation of the industry into have joint-stock concerns to the gradual extinction of the small individual brewer. The number of brewers decreased by nearly one-half from 1904-5 to 1907-8. (See Beer.)

1007-8. (See Bear.)

Bricks are uriformly shaped and sized portions of baked clay used for building. All the ancient nations made bricks, at first only baking them the sun, and afterwards by means of fire. The Israelites were employed in brick-making during their captivity in Egypt. The Kounans used bricks for all ordinary building purposes, and introduced them into England. In these days brick-making to mainly done by machinery, by methods which greatly increase the power of production as well as improve the quality of the bricks. Tiles are also made by machinery.

made by machinery.

Bridal, a nuptial feast, properly "bride ale," "ale" being form trly the term indicating a festival of any

kind in this country.

Bridewall, a house of correction formed out of the old pulace of St. Bride, Blackfraws, by Edward VI. Demolished in 1864. The name is still frequently applied to buildings used for a similar purpose.

Bridge originated in Russia, and derives its name from the Russian "biritch." Lord Brougham is said. to have introduced the game into England from France. See Pears' Dictionary of Sports and

Pastimes.

- Bridges are structures for continuing roads across streams, rures, ravines, or roads at a lower level, and, until the adoption of the arch by the Romans, were of rude construction. Indeed, until the 18th century the art of bridge-building was but in its infancy; it has only been since road traffic assumed large proportions, by the development of industries and increase of population, that the art has come to be recreated as present called a pre and increase of population, that the art has come to be practized on a great scale on scientific lines. Wood was the first material used for bridge ways; then came stone; while towards the end of the 18th century iron was brought into use; and now steel has largely superseded iron. Among the most famous of ancient bridges is that of St. Angelo at Rome, built by Hadrian, 13 A.D. The first stone bridge across the Thaines was completed in 190, and upon it were a tumber of timber houses. This Old London Bridge, as it was called, stood until the 18th century. The Bridge of the Railto at Venice dates from 1988. Old Westimister Bridge and old Blackfriars Bridge were built about the middle of Blackfriars Bridge were built about the middle of the 18th century. The Bridge of the Rullo at Venice dates from 1588. Old Westminster Bridge and old Blackfriars Bridge were built about the middle of the 18th century. Waterloo Bridge was opened in 1815. Suspension Bridges of the modern type were introduced about 1820. Telford's Menai Suspension Bridge, begun in 1810, had a catenary span of 550 feet. The first tubular form of bridge was the Britannia, across the Menai Straits, designed by Robert Stephenson and built by Su William Fairbairn. The Victoria Bridge across the St. Lawrence, at Montreal, is a tubular structure 1,000 feet long. Other famous bridges are the Niggara (suspension): the Forth Bridge (cantilever), with two central spans of 1,710 feet and two anchor spans of 660 feet long, including approaches; the London Tower Bridge (suspension), 90 feet from bank to bank, and approaches 1,20 feet on the north and 180 feet on the south sides. The greatest bridge in the world is that which was opened on the 200 feet from the 180 feet on the 180 feet of Caro railway.

 Bridge was a Treatines, a series of eight the old properties of the Earl of Bridge-water, who left a sum of £8,000 for this purpose this death in 180, 200 feet. The famous Treatines the 180 feet of the 180 feet of the Earl of Bridge-water, who left a sum of £8,000 for this purpose his death in 180, 200 feet for the 180 feet of the 180 f
- water, who left a sum of £8,000 for this purpose at his death in £80.

 Bridgewater Trust. This famous Trust was formed by the third and last Duke of Bridgewater, famous as being the founder of inland navigation, who amassed part of his great wealth by speculation in the canal which bears his name. He died unmarried in 1803, and left most of his property, with a priceless collection of pictures, to his nephew, George Granville, Marquis of Stafford (first Duke of Sutherland), with reversion to his second son, then aged three years, The latter, in 1833, assumed the

arms and name of Egerton, was raised to the peerage as Earl of Ellesniere, and is the grandfather of the present holder of the title. The Irust came to an end in 1904, an event that was celebrated by Lord Ellesmere with great festivities, at which 600 tenant farmers and loads of departments were entertained at Worsley Hall, near Manchester, the earl's

Britannia Metal, a silvery-white alloy composed of tin, copper, zuic, antimony and bismuth, and oc-casionally lead, capable of a high ponsh, and used for various kinds of metal wage.

British Association for the Advancement of Science, The, was founded in 1831, to stimulate of Science, The, was founded in 1831, to stimulate scientific inquiry and promote intercourse between ien of science, and holds an annual session of a week's duration, in some provincial town, In 1884 met in Montreal, in 1897 in Toronto, and in 1909 at Winnipeg. It is divided into twelve sections—mathematics and physics, clientistry, geology, 2000cy, geography, economics and statistics, neclanics, anthropology, physiology, botany, education and agriculture. The President each year is one of the most eminent scientists or public usen of the time.

aminipology, physiology, botaly, collection agriculture. The President each year is one of the most eminent scientists or public men of the time. **British Museum**, opened in London at Montagu House in 1759, was founded by Sir Hans Sloane's collection, which the British Covernment acquired for £20,000, though worth four times as much. In 1823, the present building in Great Russell Street was started, and completed in 1847, from designs by Sir R. Smirke. The abrary building was opened in sit a. Shirte. The indirect boltomy was opened in sep, and its large circular reading-room, 10 feet in diameter and 100 feet high, is probably the finest in the world. The library, to which copies of all books published in great Britain have to be sent free, is a published in great Britain have to be sent free, is a great treasure-house of books, ancient and modern. George III.'s library of 70,000 volumes, valued at £20,000, was added to it by a gift of that monarch's successor in 1823, and many other valuable private collections have been derived in a similar way. The museum portion contains a series of invaluable collections of sculptures, antiquities, bronzes, jowels, geological specimens, rare manuscripts, and books. The Natural History Department is now separately housed at South Kensington. The British Museum is supported by Parlamentary wants varied in is supported by Parliamentary grants, varied in amount, according to the annual requirement. A large new wing, including marble exhibition room, students' print room, and print exhibition room, was

opened in May, 1914.

Brocade, a special kind of cloth in which the Broade, a special kind of cloth in which the design or pattern is woven in relief on the surface of the material, and in great vogue in former days, wrought in gold and silver threads.

Brénze is an alloy of copper and the, sometimes with zinc, iron, or lead added.

Brownies, according to old country superstitute, were household fairies who in the night-time performed various domestic duties for the good people who had won their favour.

who had won their favour.

who had won their favour.

Buocaneers were pirates and something more.

They formed organised fleets in the 17th century,
and as their depredations were chiefly directed
against Spanish shipping, the British Government
did not spocially interfere with their operations. One
commander of buccaneers, Henry Morgan, was
knighted, and made Governor of Jamaica, They
ceased to be of much effect after England and Span
made peace.

made peace.

Buesphalus, Alexander the Great's celebrated in war-horse, whose memory his owner per strated in building a town bearing the animal's name.

Buckingham Palace, erected for George IV. in 1825, was also the London residence of Queen Victoria, and of Edward VII., the latter improving it considerably. The present king, however, has made great extensions to the royal home, which thus becomes for the first time of real palatial import-

Buddhism is supposed to have originated in India about the 6th century B.C., the founder being a native prince named Siddhartha Gautama. Around this personality many strange and mystic myths gathered, Buddha representing the highest mystic

state of human existence, the supreme of being, beyond which is no recognition of a God. In Buddhism, Narrana is the perfecting of knowledge and the completest attainment, and involves the realisation of developing conditions tending to the highest blessing. There is no caste in Buddhism. Researches of recent years have brought to light much that had been obscure in this doctrine, and in its more modern phases Buddhism has been freed of its more modern phases Buddhism has Leen freed of much of its superstitions, its idolatrous practices, and its Vedic gods, and remains in its purity a philosophical system in which self-conquest and universal charity are leading elements. Buddhism, driven out of India by the Brahmins, is now the religion of the people of China, Japan, Ceylon, Sian, Burma, and Nepsul—some 450,000,000 in all. Buffalo, a species of wild ox, of stronger huild than the domestic variety, and still existing in large numbers in the wilds of Africa, but nearly extinct in Western America.

Western America.

Western America.

Building Societies, or clubs, have existed in England since the beginning of the 19th century, but it was not until 18/4, when the Friendly Societies Act was passed, that building societies began to spread, in 18/96 a short Act gave additional privileges. The early building societies were of the terminable order-that is, they were limited to a specified number of members, and ceased to exist when all the members had received the value of when all the members had received the value of their shares. "Permanent" building societies began to take shape about 1846, the members consisting of two classes-investors, and those who consisting of two classey—investors, and those who obtain advances upon inortgage. This system worked so satisfactorily that new building societies sprang up in all parts of the kingdom, and at the present time there are over 1,700 such societies in the United Kingdom, with the total funds of nearly eighty millions sterling. The failure of the "Liberator" Society in 1895, through gross mismanagement and fraud, shook public confidence in building societies somewhat, but the passing of a short Act making it compulsory on all societies to file regular returns of the properly held by them proved of good service.

Bullets and Billets. During the Franco-Prussian War, no fewer than 29,000 projectiles were thrown into Mezières for a loss of 400 lives. At Sedan, however, firing was more deadly, for 9,000 combatants perished from the 220,000 projectiles fired. This was a far heavier mortality than that which attended the defending Spaniards at the landing of the American marines at Santlago. There, from a fusiliade from maclime-guns and rifles alone of 25,000 rounds, only sixty-eight casualties resulted. The workmanship of the Japanese in their war with The workmanship of the Japanese in their war with China was by no means good, but in 2004 against the Russians they showed far deadlier effectuality, British firing in the last Boer War was better than in former wars, but hardly a subject for boasting ; but in the great war (1914-15) it has reached a high standard of efficiency, in spite of a terrible wastage

of projectiles.

of projectics.

Bundagrath, the German Federal Council, consists of fifty-eight members, elected by the different States. Its function is to confirm, amend, or reject the Bills passed by the Relchstag.

Bye Plot, of 1603, sought to force an extension of toleration to Roman Catholics and Puritans from James I., by capturing and detaining His Majesty until he assented, but it failed.

Caaba (see Kaaba).
Cab, the name given to a one-horse four- or twowheeled public vehicle, same into vogue in the
early part of the 70th century. Eight four-wheeled
cabs (or cabriolets, as they were called) were
liceused in 1833, and as they were run at much
lower rates than the hackney-coaches they were
destined to supersede, they soon became popular.
The hansom cab, the invention of Mr. Joseph A.
Hansom, came a few years later. There are to-day

over 16,000 cabs in London alone, despite the increasing competition of motor and other buses, and the large development of electrified trams and underground railway traffic. The recent introduction of the motor-cab, fitted with taximeter, has been a great success, and has led to the adoption of the taximeter system on a large number of ordinary cabs, with minimum of, fares.

Gabal, a term derived from the French word cabels, is used to designate any small faction of political or private intriguers, and gained prominence and special significance when applied to the unpopular Ministry of Charles II.'s time, whose initials—Chiford, Ashley, Buckingham, Arlington, and Lauderdale—composed the word.

composed the word.

Cabala, a mysterious Hebrew theosophy, which had its rise in the 10th century, and was announced as a special revelation, enabling the Rabbins to explain the hidden meanings of the sacred writings. This was carried to great excess, later caballsts pretending to read signs and evidences in letters, forms, and numbers contained in the Scripture.

numbers contained in the Scripture.

Cabinet, in England, is the governing political executive body of the State, comprising the chief officers of the executive, with the First Lord of the Treasury (usually the Prime Minister) at its head. The ministers generally recognised as having the prescriptive right to Cabinet rank are, in addition to the Premier, the Lord Chancellor, the Lord President of the Council, the Lord Privy Seal, the Chancellor of the Exchequer, the five Secretaries of State, for the Home, Forcign, Colonial, War, and Indian Departments respectively, and the First Lord of the Admiralty. To these, more—usually comprehending nowadays the Presidents of the leading Committees of the Council, i.e., the Board of Trade, the Local Government Board, the Board of Agriculture and Fisheries, and the Board of Education, as also the Secretary for Scotland, the Education, as also the Secretary for Scotland, the Chief Secretary for Ireland, the Postmaster General, and the Chancellor of the Duchy of Lancaster—are added at the discretion of the Prime Minister. The

acded at the discretion of the Frime Sinister. In Cabinet, as representing one party, dates from William III. The Ministry includes all the members of Government who are also Privy Councillors.

Cable is the rope or chain that is attached to a slip's anchor. Chain cables are now in general use except for very deep waters. A cable's length is roo fathoms, soo yards. Submarine telegraph cables are composed of copper wires.

Cacao is an evergreen tree, from 16 to 40 feet high, growing abundantly in tropical America, the West Indies, Ceylon, etc., yielding a nutritive fruit, from which cocoa and chocolate are manufactured.

Gaohalot, a cetacean chiefly inhabiting the Northern seas, called also the spermaceti whale. The Mexi-can and South Sea sperm-whales, allied species, are found in warmer waters; all swim in schools.

found in warmer waters; all swm in schools.

Cache, a hale in the ground where food or travel impedimenta are stored, a term and practice introduced into America by French emigrants.

Caches, Lettre de, was a private letter of State, signed by the King, much in use in France up to the time of the Revolution, for consigning obnoxious or troublesome people to prison without trial.

Cactus, a prickly plant, as the name implies, of exogenous nature and varied form and size, fleshy and succulent, and often leafless and of very abnormal shape. The "Indian fig" class have sessile flowers, which bloom at night and quickly die flowers, which bloom at night and quickly die.

Cadet, a name given to a younger son of a noble family, and also applied to young men in training for

officerships in the army or navy.

officerships in the army or navy.

Caduneaus, the name of the wand of authority borne
by Hermes, or Mercury, being a plain rod, the
fillest of which are in the form of makes, surmounted
by a couple of wings. A herald's staff of office is
sometimes styled a caffuceus also.

Caffaine, an alkaloid found in coffee and tea,
possesses a bitter favour, and is highly stimulative.

Cainasoio, a geological torm used to indicate all
the firsts which ile above the chalk—that is, the
"most recent" strata. Tertiary is an alternative
and entirelect term. "most recent" strata.

Caique, a long narrow boat peculiar to the Bos-phoras, and usually propelled by oars (from two to

silveen in number), and sometimes with sail.

Cairn form, an hexagonal crystal of yellow brown hue
found on the Caimporn peak in Scotland, and much
used in jewellery ornanientation. The same kind of

tound on the Lairngorm peak in Scotland, and mused in jewellery ornamentation. The same kind of crystal exists in Brazil, India, and Cornwall.

Caloium, a widely diffused metal of light yellow colour, burning vividly at red heat. It is not found in a free state, but occurs in combination with most of the native silicates. Calcite, limestone, marble, and chalk are calcium carbonates.

and chairs are calcium carbonates.

Calo-spar (calotte) is one of the commonest
minerals, and occurs in a wide variety of crystalline
forms of the hexagonal system. It possesses the
property of perfect cleavage, and easily splits up
into rhombs.

ento rhombs.

Calculating Machines of many kinds have been from time to time devised. They are mostly multiplying or dividing machines. The first to attract special notice was that of Babbage, which was intended to calculate even algebraical problems, but it was never completed. Tide-predicting machines, machines for integrating differential equations, machines for adding, logical machines, calculating scales, etc., are all of the same class, but as it is impossible to endow a machine with brains, the services of these apparatus do not carry us yery far.

Calendar, a collection of tables showing the days and months of the year, its astronomical recurrences, chronological references, etc. The Julian Calendar,

and months of the year, its action must be currently chronological references, etc. The Julian Calendar, introduced by Julius Cæsar, fixed the average length of the year at 3552 days. On this arrangement of the year, there was a loss of 12 minutes and 10 seconds per annum. The shortcoming was rectito seconds per annum. The shortcoming was recti-fied by the Gregorian Calendar, introduced in Italy in 1582, but not adopted in England before 1752, when It days were dropped out of the calendar. The Gregorian year is 365 days, 5 hours, 49 minutes, and 12 seconds.

Calendaring, a mechanical process by which tex-tile fabrics are rolled and pressed to a smooth and even surface.

Calends, the first day of the month in the Roman calendar, when interest fell due, and proclamations

as to the order of days were made.

Calloo is white, unprinted cotton cloth, and received its name from Calicut in India, whence it was originally imported.

originally imported.

Caliph, the name given to the heads of the Moslem faith, and means successor—that is, successor to Mahounet. At first, the title could only be borne by direct descendants of the Prophet, but only four so-called "perfect" caliphs reigned after Mahomet at Medina. Then others of the Prophet's tribe guacceeded. There were 13 caliphs at Damascus between 651 and 352, and 37 at Bagdad between that date and 1253, when the Turks overthrew the old dynasty and finally swallowed up the caliphate. The Sultan is now chief caliph.

Caliathaniae, the art of exercising the muscles and limbs in order to increase their strength and improve

limbs in order to increase their strength and improve

the grace of form and movement.

Galmucks, a ferce, nonadic race inhabiting the wilder parts of Western and Central Asia, and of the Buddhist faith.

Buddhist faith.

Galotype, the name of a class of pictures produced
by a process invented by H. Fox Tailbot about rate,
and something akin to the daguernectype, introduced
about the same time. Later photographic developments, however, superseded both.

Galumet, a sacred decorated reed tobacco pipe
used as a symbol of peace or war by the Indians of
North America, the bowl being composed of soap
stone, and the tube, which is long, being decked
with feathers. To accept the calumet when offered
is to be friendly, to reject it is to proclaim emilty.
There is also a distinctive calumet of war used only
on a declaration of war between tribes.

on a declaration of war between tribes.

Camarilla, a term originally applied to a cotorie of Court fivourites, who, by their influence, practically directed the policy of Ferdinand of Spain in the second decade of the 19th century. The matte has since come into use to denote any similar clique.

Cambrian Group of strata belongs to the Silurian series, and was so named by Professor Sedgwick because of its abundant development in Walesa Its the lowest and oldest strata containing fossil remains, which include zoophytes, molluses, crinoids, worms, and enstages.

remains, which include zoophytes, molluscs, crinoids, worms, and crustacca.

Camel, a large ruminant quadruped, inhabiting Asia and Africa, where it is largely used as a beast of burden. There are two species—the Arabian camel or dromedary, with only one hump; and the Bactrian, or double-humped camel. They are of great commercial importance, and by their special structure, which admits of their holding reserves of sustemance and water that will last for a considerable paried are admirably advised for the passage of period, are admirably adapted for the passage of the barren deserts. A camel carries a burden of 800 or 1,000 pounds without difficulty, and its cost of keep is small.

Cameo, the name given to a precious stone upon which some design has been carved in relief. Cameo which some design has been carved in reuer. Camelouting is an ancient art, examples in different coloured layers existing which date from 150 years before the Cliristian era. There is an agate cameo at the Sainte Chapelle, Paris, which measures 13 inches by 11, and depicts the apotheosis of Augustus. Shell cameos are now common. We have also cameo-pottery, of which Wedgwood-ware is an example.

Canteres are instruments by which a convex lens is made to reflect and depict the image of an external object upon a screen. It is constructed in the form of a box, in two compartments, and is, in fact, like the human eye, a camera obscura. Photographic cameras are made in many shapes and sizes, and specialised as landscape cameras, copying cameras, portrait cameras, snapshot cameras, Kodaks, and so forth. (See PhotoGraphy.)

Gamissards, a French Protestant party of the early part of the 18th century, originating in the Cervennes, and resorting to arms in support of their faith.

damiet was the name of a very fine dress fabric, made from allk and camel's hair. In modern days there are many cheaper kinds of camelets, in the construction of which wool and goats' hair play an

important part. maportatic part.

Semonthile, a low, close, creeping, composite perennial plant, cultivated for its flowers, which are which are yellow centre. Camonille flowers are of an exceedingly bitter taste, but an infusion of them is valued as a remedy for billossness, and as a tomic.

Camorra, an Italian secret party largely composed of criminals, and at one time influencing politics considerably by their terrorising action. Naples was siderably by their terrorising action. Naples was the birthplace of the movement, and, although many attempts have been made to suppress the Camorra, they still give trouble from time to time,

they still give trouble from time to time, and p, a place where soldiers are or have been encamped. Roman camps were entrenched and rectangular, with fosse and vallum. There were four gates, and the enclosure was laid out in streets, the broadest being 100 feet wide, the others 50 feet wide. Camps are much more elaborate under the modern military system. Among the permanent camps of instruction, those of Aldershot in England and Chalons-sur-Marne in France are best known. and Chalons-sur-Marne in France are best known.

Campaniles, or bell-towers, are usually detached from their parent church, but not always. The most from their parent church, but not always. The most famous are in Italy, and are lofty and elaborate structures. That of Gotto at Florence, in connection with the cathedral of Santa Maria del Flore, is architecturally the finest in the world. Other famous campaniles of Italy are those of Campona (395 feet high) and Pisa (the Leaning Tower). The pointed campanile of St. Mark's, Venuce, which fell a few years ago and has been rebuilt, is a much admired example. Campaniles as separate structures are seldom found in Great Britain; the finest is that of the Westminster Roman Catholic Cathedral. The bell-turrets of St. Paul's in London and St. Peter's at Rome are only a form of campanile. Campan Martius was a large pain used by the ancient Romans as a military camping ground. It was situated between the Quirinal and Capitoline hills, and is to-day entirely built over and forms the heart of modern Rome.

Canary, a wine that from Tudor times to Georgian days was much consumed in this country, and is frequently alluded to in our older literature. It is a product of the Canary Islands, hence its naye. Candle-flah, so called from the fact that the Indians of North America utilise its dried oily body as a candle. It is a small fish abounding on the Pacific Coast.

Candlemas, an English and Roman Church festival in celebration of the Purification of the Virgin and the Presentation of Christ in the Temple, and deriving its name from the great show of candles made on the day (2nd February) in the Roman celebrations.

Canoe, a kind of light boat employed by many peoples in primitive times, made originally of a hollowed tree trunk, or of bark or skins strached together over a rude framework, and generally propelled by paddles. Large canoes were used by the islanders of the South Seas and elsewhere for war purposes. Canoes of to-day, employed in civilised lands for pleasure purposes, are very light boats, narrow in the beam, and are constructed from strong thin wood, galvanised iron, steel, water-proofed canvas, or other suitable material. Mr. McGregor travelled thousands of miles is. Eastern waters in his famous canoe, the "Rob Roy." Canon, a term applied to signify a recognised rule for the guide of conduct in satters legal, ecclesiastical, and artistic, or an authoritative ordinance; thus we have Canonical Scriptures, Canon Law, etc. A Canon is also a dignitary of the Church, usually a

A Canon is also a dignitary of the Church, usually a member of a cathedral chapter in the Anglican communion, or in the Roman Church a member of an order standing between the regular monks and the secular clergy

the secular clergy.

Canonical Hours were seven in number in the Western Church: Nocturns, or Matins and Lauds, before dawn; Prime, early morning service; Tierce, 9 a.m.; Sext, noon, Nones, 3 p.m.; Vespers, 4 p.m.; Compline, bed-time.

Canonication, the entering of a person who has been dead over fifty years on the list of saints of the Roman Catholic Church, after proof of purity and distinction of life has been accepted. This having been done, a day is named for the future keeping of the aninversary of the saint, death, and thence-forward appears in the Church Calendar.

Caoutehoug, an elastic, grummy substance extracted

Caoutehoug, an elastic, gummy substance extracted

from various tropical trees.

"Cap of Maintenance" is carried before the Sovereign at the Coronation, and is used symbolically in heraldry.

cally in heraldry.

Cappenalisie, a northern moor-bird, inhabiting
Scotland and Sweden, and living on fir-shoots.

Cappet, the family name of a race of French kings,
founded by Hugh Capet in 987. The houses of
Valois (1298) and Bourbon (1268) were of the same
blood, and Louis XVI. was treed and sentenced
under the name of Louis Capet.

Capital Funishment is the carrying out of the
sentence of death. In Blackstone's time there were
reso offences punishable with death in England, but
to-day murder is practically the only crame that
constitutes a capital offence in this country. Capital,
in this sense, liberally means "affecting the head"—
that is, like—of a person, and trefers to the now
obsolete punishment of decapitation.

Capital, a term that was first applied to the Temple

Capitol, a term that was first applied to the Temple of Jupiter on the Capitoline Hill, Rome, completed of Jupiter on the Capitoline Hill, Rome, completed in 509 R.C. It was several times destroyed by fire and rebuilt. The existing Capitol, a large portion of which serves the purpose of a museum, was erected from designs by Michael Angelo. In all the chief cities of the ancient Roman Empire there was acapitol or towe-hall. In the United States the building occupied by Congress at Washington bears the name of the Capitol, and the halls of the legislative assemblies of the different States are named. Capitolograp, a zodiacal constellation between Sagittarius and Aquarius, figured out in ancient times as having the head of the goat and the hind part shaped like a fish.

Gapstan, an apparatus on ships for raising anchors or other heavy work. It is of upright form and made of wood or iron, and turns on a vertical axis, moyed by poles fitted into sockets in the upper part. On steamers the capstan is worked by steam.

Capuchine are members of a mendicant order of Franciscans, founded in the reth century, and named from the capouch or cowl worn by them. They are still a numerous order, though freed from many re-strictions applied to them in earlier times. Carayan, a band of travellers or traders journeying together for safety across the Eastern deserts. These

carvans sometimes form a very numerous party.

Carbohydrates, the name of a group of organic
bodies contaming carbon atoms allied with hydrogen
and oxygen m the proportion in which they form
water. Starch, sugar, glucose, cellulose, and gum

water. Starch, sugar, glucose, cellulose, and gun are of this group. Carboile Acid results from the distillation of coal-tar, and is composed of carbon, hydrogen, and oxygen. In its pure state it crystalises and is almost colourless. In odour it resembles creosote. It is a valuable antiseptic, and is poisonous in large doses. Treated with certain acids and alkalies, it is

doses. I feated with certain across and account, used for various dyes.

Carbon, a chemical non-metallic element found in the diamond, graphite, and in the amorphous form of charcoal, coke, lampblack, soot, etc. Its distribution as an element extends though the whole of the animal and vegetable kingdom, and the number

of its components are beyond enumeration.

Carbonari, members of a secret political society originated in Naples during the reign of Murat, and at one time very numerous. Their chief aim was to free Italy from foreign rule, and they exerted considerable influence in the various revolutionary movements in the larst half of the 19th century, Their name was adopted from the charcoal burners (carbonard), and their passwords, signs, etc., were all in the phraseology of the

etc., were an in the principal of the consisting of a parts of carbon and 32 of oxygen, colouriess and odourless, and resulting when a substance containing carbon is hum with a free current of air. Used as the effervescing element in afraited beverages, champagnes, builed beer, etc. It is largely evolved from features in the earth, and is a constituent of the from fissures in the earth, and is a constituent of the after-damp that so often causes explosions in mines, though not itself inflammable. It is absorbed by and given forth from plants, and also formed and given out during the respiration of

Carbonic Oxide, a colourless inodorous substance formed of 12 parts of carbon and 16 parts of oxygen, and very poisonous. It is produced when any substance largely composed of carbon is consumed with only a small supply of air. No commercial value attaches to it.

Carboniferous System, in geology, is the term used to designate the strata from which coal is obtained. It is in three groups: the coal-measures, the milistone-grit, and the mountain-timestone.

Carbuncle, the name of a deep-red stone of the garnet order, found in the East Indies.

Cardamorn, the seeds of various zingiberaceous

plants, mainly indigenous to Malabar, aromatic and toulc, and useful medicinally in purgative compounds and carminatives.

Cardinal, a Roman Catholic ecclesiastical dignitary of the highest rank. Cardinals are divided into three classes: cardinal bishops, of which there are three classes: cardinal branchs, of which there are only six; cardinal priests, numbering so; and cardinal deacons, x₁—yo in all. They are appointed by the Pope, and associated with him in the government of the church. The dress of a cardinal consists of red cassock, a rochet, a short purple mantle, and a low-crowled red hat decorated with cords and tassels.

Cords and teason.

Gardina Elins, according to mediaval classification, were seven in number: pride, vanity, indolece, wazice, guttony, envy and anger.

Gardia, as a game, dates back to a very early period, and became known in Europe in the 14th century.

A great variety of card-games, including whist, baccard, nap, euchre, poker, bridge, etc., is played, and wherever gambling has I een indulged m on a large scale cards have been the most usual instrument. A duty of 3d, per pack on English playing-cards is imposed, and a maker of such cards has an annual licence of see, to pay. See Pears' Dictionary of Sports and Pastimes.

Carlos, a tribe of American Indians, now mainly confined to South America and Dominica, but originally from the Carlobean Isles.

originally from the Carlosean Issen.

Carloature has for its object the exaggeration of the defects or peculiarities of persons or things so as to render them ridiculous. It is an art that was practised by the ancients, but did not attain real power and force until after the invention of printing. England has from the 18th century forward produced many eminent artists in this line, from Hogarth, Rowlandson, and Gilray in Georgian days, to Sir John Tenniel, Sir F. Carruthers Gould, Max Beerbohm and the cartoonists of Vently Fair of our own time. A mong the caricaturists of social things the leading names of modern times in England are those of Cruik-hank, Hablot K. Browne, Leech, Richard Doyle, Charles Keene, du Maurier, Phil May, Tom Browne and Raven Hill. Pwach has been the chief medium of Englash political and social caricatures since 1842: and Sir F. Carruthers Gould's political caricatures in the Mestinibility Guardett, all from the Liberal point of view, are among the most humorous things of their kind. Caricature has for its object the exaggeration of among the most humorous things of their kind.

among the most humorous things of their kind.

Garlists, a Spanish policial party espousing the
claim of the descendants of Don Carlos, brother of
Ferdmand VII., to the throne of Spain. On the death
of the latter in 1833, Isabella, his three-year old
daughter, was proclumed Queen, leading to a civil of
war that was maintained with varying success
until finally crushed in 1876.

until finally crushed in 1876.

CarlowInglams, the second dynasty of the French kings (established 753), included some notable rulers, among them Charles Martel and Charlemagne. The latter was also Emperor of the West, Afterwards there were dissensions and divisions, and in 69 the Capet dynasty succeeded.

Carmelites, a body of mendicant friars taking their name from Mount Carmel, where the order was first established in 1756. The Saracens persecuted them, and they made their way to Europe, founding monasteries and convents in various countries, many such institutions still existing, while there are several Carmelite convents in the United States.

Carnival, the great festival which takes place in Roman Catholic countries on the last three days before Lent, when people of all classes give them selves up to the widest revelry, buffornery, and navelengation. It is only in the chief cities of faily, however, that the custom is kept up with anything of the old spirit. At Nice a modernised form of it is given, of which the "hattle of flowers" is a feature.

Carob. a wild plant growing abundantly on the Mediterranean coast and yielding a bean or pod that forms nutritious food for cattle and horses.

Carolinium, a recently discovered chemical element developed from thorium dioxide, and having a high power of luminosity. Discovered by Dr. C. Baskerville, of North Carolina, and named after that State. Sheds an illumination through

tubes of copper, brass, iron and glass.

Carolite, an English gold coin of the Stuart period, at first of the value of twenty shillings, and subse-

quently worth 23 shillings.

Carp, a well-known fresh-water fish, found in plenty

Carp, a well-known fresh-water fish, found in plenty un most European and Asiatic still waters and sometimes reaching a length of 4 feet. The gold-fish common to our ornamental waters and aquariums are of this family.

Carpets are thick fabrics used for covering floors, and were first made in Eastern countries—Egypt, Persia, India, etc.—finding their way to Europe in the Middle Ages. A carpet factory was established in Frante in the time of Henry IV., and one was set up at Mortlake, in England, in the reign of James I. It was the custom in early times to use

single carpets for covering beds, couches, tables, etc. The best-known classes of carped are the Axminster, Kidderminster, Witton, Venetiag and Turkish. In modern times the production of carpets has been greatly improved and extended by the aid of steam-power and ingenious machinery.

or steam-power and ingenious machinery.

Capronade, a short piece of ordnance of large
calibre, with a powder-chamber similar to that of a
mortar. It was first made at the Carron Ironworks,
Scotland, hence its name. Although now superseded by improved guns, it did 'excellent service in
the Navy from 1779 down to the end of the wars
with Ferse. with Fra

with France.

Garthusians, an order of monks founded in 1086
by St. Bruno at the Grande Chartreuse, near

Grenoble, and introduced into England about a

century later. They built the Charterhouse (corruption of Chartreuse) in Londou in 1371. Their

habit includes a hair-cloth shirt and cowl. The

liqueur Chartreuse was invented by the order in

their mountain retreat and is still their secret.

For many years they have derived large revenues For many years they have derived large revenues from the sale of the cordial.

Cartoons are properly designs of the actual size of an art work as it is intended to be completed, and made for frescoes, tapestries, or mosaics. The an art work as it is intended to be completed, and made for frescoes, tapestries, or mosaics. The most celebrated cartoons are the seven painted by Raphael, now at the South Kensington Museum. The artist executed 25 in all, but only these seven, which Rubens obtained for Charles I., remain. A political pictorial carracture or symbolic design is also styled a "cartoon" nowadays.

Cartridge, a case of metal paper, or pastehoard, containing the exact charge of gunpowder or other explosive required for a nile or gun.

containing the exact charge of gunpowder or other explosive required for a rillo or gun.

Gasain, the leading nitrogenous element of milk, which coagulates by the action of rennet, or acids, when it takes the form of curd.

Gashmers, a soft silky fabric, made from the hair of the Cashmere goat, and the object of a considerable industry in India, cashmere shawls being often of great value. There is also a kind of Cashmere largely manufactured in this country from Asiatic wools and cotton. wools and cotton.

Cassowary, a large bird of the ostrich family, inhabiting the Molucca Islands, New Gunea, and North Australia. It is of black plumage, with three toes, and has a horny crest upon its head. In fleetness it can outstrip the horse.

ness it can outsirp the norse.

Castanets, spoon-shaped shells of hard wood or ivory, attached by cord to the thumb, and stuck together by the middle finger, making a crisp sound. Castanets are of Moorsh origin, and used

sound. Castanets are of Moorish origin, and used by dancers as time-beating accompaniments.

sate, a term used to specify the different social gasses into which the laws of Brahminism divided the Hindus. The four leading castes are; (r) the Brahmans or, priests; (2) the military caste; (3) the Veisyas or traders; (4) Sudras or labourers. There are many subdivisions also, the Sudras alone having 36. The Pariahs are considered beneath all classifica-

are many subdivisions also, the Sudras alone having 5. The Parlahs are considered beneath all classification of caste. Caste is a term adopted in other countries also in regard to class distinction. "The caste of Vere de Vere," sings Tennyson.

Gastor-oil Plant is a native of India, but now widely distributed in all hot regions. It grows to a considerable height, has broad palmate leaves, and bears a spiny fruit containing seeds which when bruised yield the well-known oil. The first yield of the oil is obtained by simple pressure. This is castor-oil in its "cold drawn" and purest form. A more espous quantity results from heating, but not so good.

Casuistry, in ethics, is a subtle process of reasoning by which nice points of conduct and conscence are settled.

Cat. the general name for all quadrupeds of the

Section.

Cat, the general name for all quadrupeds of the Digitierade section of the carnivorous order, from the lion down to the domestic cat. The latter is supposed to be descended from the Wild Cat once so common in Britain and other parts of Europe. Egypt is credited with having been the first country in which the cat was domesticated. The finest varieties are the Angora (or Persian), the Maltese, and the Manx. and the Manx.

Catacombs are subterranean or built-up places of interment. The most famous are those of Rome, constructed by the early Christians, where in times of persecution they concealed themselges. They are of great extent, consisting of a labyrinth of vaulted galleries, 4 to 5 feet wide, at different levels. These Roman catacombs are said to have contained over 6,000,000 bodies and to have extended scores of miles in length, though not more than about six miles are now accessible. Catacombs have also been discovered in Naples, Cairo, Paris, etc. Attached to some modern cemeteries are catacombs of the built-up order, formed of chambers of stone or of the built-up order, formed of chambers of stone or brick in the walls of churches or mausoleums. Catamaran, a float or raft of three or more pieces of wood lashed together. Used mostly on the Coro-

mandel coast.

mandel coast.

Catapult, a military engine used in ancient times for throwing missiles of stones, spears, and arrows. They were constructed of wood, and by means of a freed spring ejected the massed missiles with great force into the ranks of an eneny. The balista (p. n.) of the Middle Ages was an adaptation of this.

Cataracts are grantic waterfalls. The most fancous are those of Niagara in North America, the Orinoce in South America, the Victoria Falls on the Zambez in Africa, the Falls of the Rhine at Schallhusen, and the Cascade of Gavarni in the Pyrenees. Cataract, surgically, signifies an affection of the sight.

Catachtam, an elementary book of principles in any science or art, but more particularly in religion, in

Cassentsm, an elementary book of principles in any science or art, but more particularly in religion, in the form of questions and answers. There are a great variety of these, including the Lutheran, prepared by Luther in 1520, Calvin's Geneva (in 1526), and the Anglican, in the Book of Common Prayer.

Catechumens, a term applied in the princitive church to children of Christian parents, who were admitted as neophytes, and occupied a place apart in the church.

in the church.

in the church, Caterpillar, the larva of a lepidopterous insect, womilike in its segmented body, usually furnished with feet, often curvously marked and coloured, and frequently more or less harry. Cathedral, the chief church of a diocese, so-called

from its containing a Bishop's seat, or episcopal chair. The finest cathedral in the world is that of St. Peter's at Rome, founded in 130. Other cele-brated cathedral, are Notre Dame of Paris, the cathedrals of Cologue and Milan, St. Pau's in London, Canterbury Cathedral, York Minster, and the cathedrals of Juriam, Bristol, Gloucester, the cathedrals of Durham, Bristol, Gloucester, Peterborough, and Exeter.

Cat's-eye, a kind of quartz, much valued as a gem, opalescent, and of various shades.

Opalescent, and or various states.

Caucus, an American term designating a private authoritative body of politicians whose duty it is to select candidates for office and deal generally with party business. It was first used in this country at Birmingham in connection with what was called the "Liberal Six Hundred." Lord Beaconsfield employed the term satirically. The word has since come into common use, though generally in an uncompilmentary way.

complimentary way.

Cavaller, a name adopted during the troubles of the
Civil War to designate the Royalist party; it is also
used generally in reference to a knightly, gallant, or

imperious personage.

Cavalry is the part of an army consisting of troops that serve on lorseback, and now much less used than in former times. The cavalry of the Greeks and Romans were generally members of noble families, and down to the Middle Ages something of this distinction was continued. After the invention of gunpowder, this branch of the military service undergunpowder, this branch of the military service under-went great changes; and in more recent times, with the development of heavy artillery, cavalry has been less prominent than before. Cavalry to-day is divided into two main classes, heavy and light. The British Army has 3r regiments of cavalry, 3 of Household Cavalry, 7 Dragoon Guards, 3 Dragoons, 6 Lancers, and 12 Hussars. The Transval War of 1909-190e showed the special value of mounted infantry, and this line of cavalry service is heavy developed. this line of cavalry service is being developed.

Cavas are natural hollow places in the earth, largely

met with in limestone or volcanic rocks. Fingal's ner with in imesone or volcain rocks. Inga's Cave in Staffa is noted for its splendid range of basalt columns, and at Malham and Kirkdale in Yorkshire, and Kent's Hole near Torquay, are farextending caves. The manimoth cave of Kentucky

extends through many miles of labyrinthine windings, extends through many miles of labyrinthine windings.

Cavernen. From the fossil evidences found in various geological strata of the pre-historic period we find that a race of people existed who were we find that a race of people existed who were ignorant of metals, pottery, and agriculture, and knew nothing of domestic animals. It is also clear that they lived in caves which served them as rofuges against predactous heasts. Caviare is a Russian preparation made from the salted roe of certain fish, such as sturgeon, sterlet,

salted roo of cortain fish, such as sturgeon, sterlet, and serving, and much appreciated by oplicures.

Cayanne Pappar is made from the dried and baked pods of various kinds of tropical capsicum.

Cadan, a dark-leawed, cone-bearing, horizontabranched evergreen tree that grows to a considerable height and girth, the best known species in this country being the Lebanon Cedar, which was introduced into England in the 17th century, and is now of frequent occurrence here. Its native regions are the mountains of Western Asia and the West India.

Cell Theory, a doctrine that all animal and vegetable tissues consist of cells or of their products.
Celluloid, a compound of gun-cotton, camphor, and

other ingredi iit, producing a substance that closely imitates ivery, or, when coloured, immerous decorative objects, such as coral, amber, tortoseshell,

Cellulose, a carbo-hydrate, and a constituent of nearly all plants and vegetable structures. By being treated with strong acids and boiled with water, glucose is obtained. Cellulose occurs in an almost pure state in the fibres of linen and cotton

almost pure scrie in the intres of mich and cotton.

Gelts, an ancient race of Western Europe, originally settled in Gallia, and afterwards spread over other parts of Europe, including Britain. The two clief divisions of Celtic Britons were the Gaels of Ireland and the North of Scotland, and the Cymri of Wales. The descendants of these races still retain many of their ancient characteristics, and considerable interest is manifested in their language and literature.

Cements assumes various forms, glue, sealing-wax, paste, putty, and other adhesives constituting one class, but the main class consists of substances for binding together brick or stone, and comprise morrar, Portland coment, Ronton cement, and plaster

mortar, Porthand coment, Roman cement, and plaster of Paris, each possessing qualities rendering it specially adaptable to certain purposes.

Censors were Roman magstartes vested with the power of keeping a record of all citizens, and of controlling the manners, morals and duties of the peoples. In more recent times in Fugland censors have been appointed by the Government in connection with publications of the Press or for the stage. Under Charles II, there was a licensor of the Press. The only appeal centure is hardand. stage. Under Charles II. there was a licensor in England is the Fress. The only special censor in England is the Examiner of Plays. By a new regulation issued in January, 1912, the Lord Chamberlam will grant licenses for the performance of stage plays to managers of music-balls within his juris-diction to such as apply for them, under certain diction to such as apply for them, inner certain restrictions, In 1913 a censor of emenatograph films was established. In war time a special censor is appointed to check the reports intended for newspapers. In the great war 1914-151 an official censorship of a far-reaching and very strick kind was organised, and gave rise to much resentment because of its frequent

block upon the dissemination of news.

lensus was the title given in amount Rome to a register of citizens, with full particulars as to their family, children, slaves, and so forth. The term is now used in regard to the general enumeration of population which takes place in Great Britain and Ireland and the Bitish Colonies every ten years. The first official cessus in this country was that of 86%. In Colonies every ten years. The first official census in this country was that of 1801, In France and Germany a census is taken every five

VCSTS.

Centre of Gravity is the point through which the entire weight of a body seems to act by the force of gravity. This centre may be found either by experigravity. This centre has be found either by experi-ment, such as suspending the body to a string, when the true vertical position will be marked, or by the rules of geometry. The centre of gravity of a straight bar is at the middle point, and of a circle it

straight par is at the middle point, and of a circle it is the geometrical centre.

CeoFl, the name given to an Anglo-Saxon freeman, who was usually in bond-service to a landed proprietor, but could become a "thegn" if he became possessed of 600 acres of land, with a church and a house upon it, but three generations had to elapse before any descendant of his could be ennothed.

Ceruma, a scarce metallic element discovered in 1802.

It is capable of precipitation to powder, and only exists in combination in the minerals cerite, allamite, and a few others. Sure of cerium, mixed with salts of thorium, are used in the manufacture of gas mantles.

Castus, the name given 10 a girdle worn by Greek and Roman women around their waists, and gene-rally decreated. It was also the name of the loaded gauntlet worn by boxers in the Roman arena.

Cataona, the order of mammals comprising the whale, dolphin, and porpoise, which, though strictly aquatic, breathe air, suckle their young, and are warm-blooded.

warm-nlooder.

Chain Armour was composed of links of hammered iron, and worm over garments by soldlers
in the 12th and 13th centuries. These garments
were called coats of mail, and were superseded by annour made of metal plates.

armous made of metal pieces.

(Chalcedony, a fine quartz occurring chiefly in Chalcedon, and much used by jewellers for necklaces, bracelets, etc. It is found in various colours, in some of which it takes distinctive names, as onys,

in some of which it takes distinctive names, as onyz, carnelian, agate, and sard consisting of carbonate of line only slightly consolidated. It is made into lime only burning, and becomes whiting when puriad. Chalk forms the cretaceous system, and is abundant in the South of England, where it reaches a thickness occasionally of a thousand feet. Chalk fossils reveal mollusca, sponges, and sea urchins. Of the many chalk preparations, black chalk, Spanish white, red chalk, and French chalk may be mentioned, though none of these are pure chalk.

Chalybeate Waters are waters impregnated with iron, or containing iron in solution. Chalybeate springs are numerous in Eugland and other parts of the world, and are valuable in restoring strength after illnesses and improving the blood.

the world, and are valuable in restoring strength after illnesses and improving the blood.
Chama, a genus of large bivalves of the mollius tamily, found in tropic waters, especially amongst coral reefs. Chama gigat weighs sometimes as much as 900 lb., and one valve has been employed as the basin of baptismal fonts in various churches.

Chamberlain, an official having the direction of the private apartments of a monarch or nobleman. The Lord Great Chamberlain of England is an horeditary Lord Creat Chamberiam of England is an hereditary official, and his chief duties are to attend the Sovereign at his coronation, take charge of the ancient palace of Westimister, and see to the furnishing of the Houses of Parliament and Westimister Hall on State occasions. This office is held jointly by the families of Cholmondeley and Willoughby d'Eresby in alternation. The Lord Chamberlain of the Household is the acting superingendent of the the Household is the acting superintendent of the Royal Household, and receives his appointment from the Ministry of the day, and is a member of the Pricy Council. Chamberlams are also attached to various city and other corporations.

various city and other corporations.

Chamberfin, a well-known brand of red Burgundy, the product of the vineyards of the Côte d'Or, France.

Chameleon, a family of lizards of which there are numerous species. The common chameleon is a native of Africa, and is about 12 inches long, including tall. It is remarkable for its power of changing colour to resemble its surroundings when surprised, a power that is due to the presence of pigment-bearing cells beneath the akin. It is slow in movement and inactiveness.

ment, and insectivorous. Chamois, a species of antelope, and a native of

Western Europe and Asia. It is not much larger western curope and Assa, it is not much larger than a goat, lives in mountainous regions, and possesses wonderful leaping power, so that it is very difficult to capture. Its flesh is much esteomed, and from its skin the beautiful chamois leather is

Champagne, the celebrated sparkling wine made from the grapes of the vineyards of the district of France, of which Rheims is the headquarters.

Chancellor was the title of a chief officer of the Rangellor was the title of a chief omcer of the Roman Empire, but at the present day is used to designate in England the leading dignitary of the law and Parlament, and in Germuny the lighest officer of the State. In former times the Chancellor of England was the King's most trusted adviser, and exerted immense influence. Before the Petermatian he was generally an erclestastic. The Reformation he was generally an ecclesiastic. The Lord Chancellor is the Keeper of the Great Seal, a Privy Councillor, and Speaker of the House of Lords. His salary is falcoop a year, and he receives a pension of half that sum. There is a separate Lord Chancellor for Ireland, but this is a judicial office, with a salary of £8,000 a year. There are various with a salary of £8,000 a year. There are various minor chancellorships in connection with the Government, and the universities have their chancellors.

ment, and the universities have their chancentors.

Chantry, a private church or chapel established and endowed for the maintenance of priests to p riving the properties of the maintenance of the priving the properties of the church and the properties of the church and the properties of the Sovereign and Court, and at present situated in St. James, Palace.

St. James's raiace.

Chappel of Ease, a place of worship for parishumers
living at a distance from the parish church.

Chappend, a term applied to wood that has been
subjected to a process of slow smothered combustion, and generally refers to the carbonacous remains of vegetable, animal, or combustible mineral substances submitted to a similar process. Char-coal has many uses, being employed as fuel for gunpowder making, as a disinfectant, and as a filter, a is practically insoluble except when reduced to a

fine powder.

Charity Commissioners, an important body appointed by the Charitable Trusts Act of 1853 for appendict by the Charitable 11858 Act of 1853 197 inquiring into, and dealing with, charitable trusts in general and endowed schools. By the Education Act of 1899, however, the powers of the commissioners have, to a considerable extent, been transferred to the Board of Education.

transterred to the Board of Education.

Charterhouse, a famous school that until a few years ago was in Aldersgate Street, London, but is now removed to Godalming. In connection with the school is an almshouse on the old London site efficiewed by Thomas Sutton in 1671. Thackeray's Colonel Newcome was an inmate, and Thackeray Colonel Newcome was an inmate, and Thackeray in the state of the sta himself, as well as Addison, Grote, and other eminent men, were Charterhouse scholars.

men, were Charterhouse scholars. Chardiam, the political principles of a body of advanced reformers who appeared in England about 1838, and agriated for "six points" of popular reform, viz., manhood suffrage, annual parlaments, vote by ballot, abolition of the property qualification, payment of members, and equal electoral districts. The movement spread through all parts of the country, and assumed revolutionary proportions in 1848, when meetings of a volent character, attended by west multitudes were hold and it was deemed. by vast multitudes, were held, and it was deemed by vas minimudes, were lead, and it was dement necessary to take strong measures of protection in regard to public men and public buildings. The Chartists threatened to resort to "physical force," and large bodies were put under a sort of military and large bodies were put under a sort of military drill by night in secret places, and for a brief period the attitude of the Chartists was extremely threatening. Numerous disturbances took place, and many arrests were made, some Chartists heing sentenced to death for high treason, but subsequently respited and sent into transportation. An Irish Larrister, Reargus O'Connor, assumed the leadership of the movement, but committed so many absurdities that he brought undeserved ridicule upon what was in the main a legitimate movement. It attained its beight during a period of intense distress amongst

the working classes, and with the improvement of trade and the relief of taxation, it gradually died down, but the main principles for which it contended have since received practical acceptance. Chasuble, a sleeveless vestment wore by secle-siastics over the alb during sacrament of the mass. It is supposed to symbolise the seamless coat of Christ. Its use in English churches was prohibited in rece, but again permitted after seco. It gradually

It is supposed to symbolise the seamless cost of Christ. Its use in English churches was prohibited in 1525, but again permitted after 2525. It gradually fell into disregard, however, but some fifty years ago was resumed in the High Church services.

Chauviniam is a term applied to any exaggrerated devotion to a cause, more particularly to excess of public or military enthusiasm. The word springs from Nicholas Chauvin, whose extrawagant devotion to Napoleon I. made him a laughing stock.

Cheese, an article of food made from the curd of milk, which is separated from the whey and pressed in moulds and gradually dried. There are many varieties of cheese, according to the method of preparation, or the quality of the milk. The finest cheeses are those in which cream is added to the preparation, or the quality of the milk. The finest cheeses are those in which cream is added to the curd. Among the best-known of British cheeses are the Stition, Cheddar, Cheshire, Gloucester, and Wensleydale; while of foreign cheeses we have Parmesan, Dutch, Gorgonzola, Roquefort and Gruyère. The soft cheeses, such as Camembert, Brie, and croup mobble few for a boot from the control of the

Gruyere. The soft cheeses, such as Lamenberr, Brie, and cream, only keep for a short time.

Cheetah, the large spotted cat of Africa and Southern Assa, often called the "hunting leopard" because of its employment in the chase. It is long-legged with non-retractile claws, and not unlike some fleet running dogs in general appearance, but its facial presentment and voice hetray the foline.

Chemistry is the science which analyses and describes the properties and composition of various natural substances. It had its me in alchemy and has gradually developed into a science of vast magnitude and importance, engaging the study of the most enument scientific minds. According to the most emment scientific minds. According to chemical principles all substances are composed of indivisible atoms. It demonstrates that an elementary indivisible atoms. It demonstrates that an eichientary substance is made up of groups of allied atoms, while a compound substance consists of atoms of different kinds, chemically united. Most substances belong to definite groups of atoms called molecules, each molecule being the smallest proportion into which the substance can be divided. Chemistry Chemistry concerns itself with defining, and explaining the law, causes, and effects of molecular changes.

Chenille, a soft cord material of silk or worsted used in embroidery, lace-making, and sometimes for carpets and wall liangings or curtains.

Chaque, an order on a bank for the payment of money on presentation to the person named in the document, or to the bearer. It does not require endorsement when made out to bearer, but must be endorsement when made out to bearer, but must be endorsed when payable to order. Each cheque requires a penny stanip in this country. A cheque that is crossed (by having the words "& Co." witten transversely between parallel lines) can only be paid through a bank. A banker is hable for loss on a forged cheque unless he can prove carelessness on the part of the drawer.

Cherokees, a North American tribe of Indians, Cherokees, a North American tribe of Indians, once a powerful and warlike nation occupying a large portion of the Allegheny range, but now residing within the Indian Territory under civilised rule of law and very prosperous.

Chess, an ancient game of Lastern origin. See Years Dictionary of Sports and Pastimes.

Chestnut, the fruit of the chestnut tree; those of the Spanish Chestnut, Castanea vesca, furnish a favourite Spanish Chestnut, Castanea wee, furnish a favourite esculent. The wood of this tree is used in places in carpentry; while the horse-chestnut (Ascular hippocataneum) is employed extensively in brushmounting, and is cabinet work.

Chiaroscure, a term used in painting to denote the arrangement of light and shade in a picture. On the proper handling of chiaroscure depends the fidelity of depiction of objects and distances.

Chiaros, a plant largely used for mixing with coffee and not regarded altogether as an adulterant, being credited with certain dietetic virtues. In England,

however, where chicory is added, the fact must be stated on the package sold to the public. The dried roots of the plant only are used, being ground

died roots of the plant only are used, being ground into powder before guixing.

Chiltern Hundreds, the name of a district of the Chiltern Hundreds, the name to the district of the Chiltern Hills where offenders used to hide to escape capture. This gave rise to the appointment of a crown official who was called the steward of the Chiltern Hundreds. The duties of this office long since ceased to be of meaning, and, by a pleasant faction, when a member of the House of Commons accepts the stewardship of the riduse of commons cannot resign his seat without disqualification by accepting a place of profit under the Crown, he accepts the stewardship of the Chiltern Hundreds, which is commonly held to constitute such a place,

which is commonly ment or constitute such a place, and this is tantainount to resignation.

Chinganzee, a large anthropoid ape, a native of tropical West Africa, of a dark brown colour, with arms reaching to the knee, large ears, and a general organisation resembling that of man. It possesses considerable intelligence, can walk erect with ease,

considerable intelligence, can walk erect with ease, and when full grown is about four feet high. Chinchilla, a South African rodent. Grey in colour, and black and white undermeath. It is greatly esteemed for its beautiful fur. Chints, a cotton cloth, generally glazed and covered with foral or other designs. It is largely

covered with floral or other designs. It is largely used for furniture coverings.

Chipmunk, a squirrel-like animal of the Tamias genus, common in the United States.

Chippendale Furniture was introduced in the reign of George I. by a calinnet-maker named Thomas Chippendale, who migrated to Loudon from Worcestershire, and set up for himself in a small way in St. Martin's Lanc, Charing Cross. He was, however, fonder of inventing designs for furniture than of actually making it, and in vize sublished. a book of patterns, which seems to have been wel-comed by the London furniture-makers of the day, comed by the London turnture-makers of the day, for they soon began to model a good deal of their work upon it. Of course, only a small portion of the so-called "genuine old Chippendale" in existence can have come from the sliop in St. Martin's Lanc. Chirograph, an indenture drawn in evidence of title to property, landed or otherwise, and prepared (usually on parchiment) in a special mainer of engressing.

Chiromancy is the old name for palmistry or divination by the hand. It was greatly practised in older times, and has had a considerable revival in recent years. The evil grew to such a degree a few years ago that several prosecutions were instituted by the police with a view to its suppression.

Chiropody, the treatment of the hands and feet for the cure or prevention of disease, especially applied

to the removal of corns, warts, etc.

Chlamys, a loose military cloak or mantle, worn formerly chiefly by horsemen, and permitting the tornierly chienty by norsened, and permitting the free use of the arms.

Chloral, a colourless mobile compound discovered by Liebig, and obtained from chlorune and alcohol, or chlorine and starch.

Chlorine, a gaseous substance contained in common salt, and obtained by the action of manganese dioxide and hydrochloric acid. It unites easily with many other elements, the compounds resulting being termed chlorides. It is of great importance in bloaching, and is a valuable disinfectant.

Chlorite, a grass-green or darker green group of minerals of micaceous structure, found in the tin-mines of Cornwall.

Chlorodyne, an anodyne remedy containing morphine, chloroform, prussic acid, and extract of Indian henp, flavoured with sugar and peppermint. It is often administered to children to induce sleep, and, when unskilfully given, sometimes leads to unfortunate results.

fortunate results.

Chloroform, a volatile colourless liquid, is prepared for commercial purposes by distilling a mixture of chloride of line, alcohol and water; but for medical use it is made from chloral, which yields a pure distillation. When the odour is inhaled it produces unconsciousness and insensibility to pain. It owes its discovery to Lieling, and its first application for medical purposes to Sir James Young Simpson.

Chocolate, a paste made from the kernels of the cocoa type and flavoured with sugar, vanilla or other subgrance. Chocolate beverage is made by dissolving chocolate in holling water or milk. It was thus used by the Mexicana largely, as far back as the time of Montezuma,

time of Montezuma.

Chousns, the name given to a party of Breton Royalists who were bitter opponents of the Republic, and defended their cause bravely, until La Roche put them down in 1796. There were later risings, but Napoleon, by ordering the execution of their leader, Cadoudat, in 1804, crushed the movement.

Chough, a well-known pird of the crow family, with fine black plunage tinged with blue and purple. It is trainly met with in Conwall and the West of England, the mountains of Wales, and in the

Hebrides, the secred olutions consecrated by a Bishop, and used in the rices of baptism, confirmation, ordination, etc. It is no voly employed sacerdotally in Roman Catholic and Greek churches.

Christadelphiana, memoers of a religious sect which holds that immortality can be obtained by believers only. They have piculiar views of the Trunty, reject infant baptism, and have strange about the Millennum.

Christianity, the religion proclaimed by Jesus Christ, Its principles are set forth in the New Testament, and its churches abound in all civilized countries. About one-fourth of the inhabitants of the globe acknowledge the Christian faith to-day,

Christian Science represents the belief disease, sin and death can be defeated by faith, Christmas Cards are a modern institution.

it is believed the sender was W. E. Dobson, R.A. He had a triend from whom he received certain courtesies of which he desired to show some especial The time was Christmas, appreciation. appreciation. The time was Christmas. So, after some thought, he made a sketch symbolising the spirit of the festive season and posted it to his friend. The sketch was done on a piece of Bristol-board about twice the size of the modern elter-card. If depicted a family group toasting absent friends among appropriate surroundings. And from this small beginning the idea, now so largely utilised, and constituting such a vast industry, was developed

Christmas Rose, a plant of the Ranunculus order (Helleborus nuger), so called from its flowering, under normal conditions, about the close of the year.

Christolyte, a sect of sixth-century Christians, who believed that upon the descent of Josus into Hades he left there both His human body and soul, and rose

he left there both His human body and soul, and rose again with His Divine nature atone.

Christ's Hospital, or "Blue Coat School," has founded by Edward VI. on the site of an old Greyfrars monastery, and down to a few years ago was one of London's best known scholastic institutions. It was pulled down, however, to make room for extensions of St. Burtholomew's Hospital, and the school is now carried on at Horsham. Emden, Stillingfleet, Colendge, and Charles Lamb were Blue Coat boys.

Stillingfleet, Coleridge, and Charles Lamb were Blue Coat boys.

Chromascope, an instrument demonstrating the three optical effects of colours; viz., the reflection of speculums, the transmission of light through transparency, and the refraction of leases and priams.

Chromastes, the science which investigates and explains the properties of the colours of light, and of natural bodies, forming a chief branch of optics.

Chromitum, a setal obtained from chrome ironstone, a mineral compound of chromic, ferric, and ferrous order.

ferrous oxides.

terrous oxides.

Chronea, a wingless dipterous insect found amongst snow and ice in Sweden in winter-time, brownish yellow on the head, and long-legged.

Chronology, the science of computing periods of time by orderly division, and of assigning to events their proper relative dates.

Chrysolary, a mineral found in rolled pebbles in Brazil and Ceylon, in fine crystals in the Ural, and in granite in the United States, is of a yellowish green colour, and when opalescent makes an attractive gem.

Chrysocolla, a silicate of copper, apparently produced by decomposition of copper ores. Alt is of a blue-green colour, and derives its name film its slight reshous lustre and transparency.

slight resinous lustre and transparency.

Chunchusas, a race of Chiuese brigands ranging through Manchuria and Mongolia, and accused of serious robberies during the Russo-Japanese war.

Church Army, a Church of England Mission, somewhat on the lines of the Salvation Army, founded in 1882 by the Rev. W. Carlile, and doing great good among the submerged masses.

Church of England was organised in 673 by Archbishop Theodore, who settled the number and boundaries of its dioceses, and divided each diocese into parishes. The conversion of Englands to Christians.

into parishes. The conversion of England to Christianity was mainly the achievement of St. Augustine, who in 597 founded the see of Canterbury. The church was in communion with Rome from the first, but was not brought strictly within Papal jura-diction until after the Norman Conquest, although at no time was the domination of Rome complete over the English Church; so that when the Reformation took effect in the 16th century it was not so much the

took effect in the 16th century it was not so much the displacing of an old church and its supplanting by a new one which took place as a strengthening of an anti-papal action which had leng been maturing.

Gid, a famous Spanish hero of the 17th century, Don Rodrigo Diaz, who, before he was twenty, led a Spanish force against the Moors, and drove them out of Span. He is celebrated in poem, play and rumance.

Clder, a fermented liquor made from the juice of apples by crushing the fruit to pulp when ripe. The cider of Devonshire, Somerestshire, Worcestershire, and Herefordshire is the best.

Clinchona. an evergreen tree common in the

Cinchons, an every even tree common in the warmer portions of the American continent, growing at a high altitude and famous for its bark, which gives us the valuable drug, quinne. It was three duced into India in 1860, and its product occupies an

duced into initia in 1800, and its product occupies an important position in pharmacy.

Cinematograph. (See Kinematograph).

Cinnabar, an ore which yields mercury by heating.

Cinnamon, the dired bark of a tree common in the East Indies, and forms a valuable spice.

Cinque Ports were originally important sea-ports on the Southern coast of England, including Hastings, Ronney, Hythe, Dover and Sandwich, which were the five original Cinque Ports, Winchester and Rye were added later. These ports were required to furnish a certain number of ships, ready for service, furnish a certain number of ships, ready for service, and in return they were granted many privileges. The flood Warden of the Chique Ports draws a salary of £3.coo a year. Earl Beauchamp has been Warden since November. 1913.

Citrus Gloud, a form of cloud of feathery or streak-fixe semblance, high in the firmament.

Cisterolans, an order of monks and nuns taking their names from Cisteaux, near Dipon, where their first convent was established in 1098. The monks wear white cassocks, the nuns white directs.

wear white cassocks, the nuns white dresses.

Citric Acid is contained in lines and lemons mostly.

It is of value in medicine and in the preparation of effervescent beverages.

Citron, the fruit of a tree of the lemon order, with hick rind, much used for candied peel.

Civet, a carnivorous quadruped from which civet perfume is obtained. In Abyssima the animal is kept in confinement for the sake of this secretion.

Civil List is the record of expenditure in connection

with the maintenance of the royal household and the dignity of the Crown. It is fixed in the firscipession of Parliament after each monarch's accession. The amount fixed on the accession of Queen Victoria was 4406,000 a year; for Edward VII. it was raised to

1470,000; and further augmented for George V. Cinirwoyance, the alleged power of mental vision, said to enable its possessors while in mesmeric trance

same to crimine its jossewors while in measureric trance to see persons and happenings at a distance.

Clay, a term used to designate certain plastic, earthy compounds composed of hydrated silicates of alumina. China clay, from which porcelain is made, is the purest clay, and is obtained by the natural crimbling of felspar, which is found only in Cornwall in this country, but is well distributed in China,

Japan, and the United States. Other varieties are pipe-clay, fire-clay, potters' clay and brick clay. Cleopatra's Needle on the Thames Embankment is an Egyptian obelisk of the time of Thomes III., presented to the British Government by Mehemet Ali in 1819, but not brought to this country until 1878. Its weight is 180 tons.

1879. Its weight is no tons.

(liff-Dwellers were aboriginal tribes who in far-back times had their homes in recesses of the rocky cliffs of New Mexico and elsewhere in the South-western regions of what is now the United States.

western regions of what is now the United States. Climate and Old Age. Stalistics show that a greater number of people live to be contenarians in warm climates than in the higher latitudes. The German Empire, with 55,000,000 inhabitants, has (according to the latest attainable statistics, which must be regarded as approximate and as far as possible relative only) 778 centenarians; France, with 40,000,000, has arg; Ingiand has only 146, Scotland 46, Sweden 10, Norway 23, Belgium 5, Denmark 2, Spain 407, and Switzerland none. Servia, with a population of 2,350,000, has 576 people over 100 years old. ears old.

Cloaca Maxima, the name of the great under-ground sewer of Rome, constructed in the reign of Tarquinius Priscus (circa 588 B.C.) and still extant in its chief structural features.

Clock, a horological contrivance differing from a watch in not being adaptable to transit, save in watch in not being adaptable to transit, save in a minor and unimportant way, and usually having a motive spring or weight, and geared trait, with a pulsative device to govern the rate at which the mechanism shall move; also commonly having a figured dial and index hanos. One of the earliest inventions for time-keeping was the dial, upon which the clepsydra followed. Archimedes knew how to set wheels going by springs and weights, but who first regulated their speed and applied their controlled motion to a pointer traversing a dial has not been ascertained. But about A.D. tooo a student at Cordova University added the escapement to a pendulum clock in that seat of learning. In 1228, a clock was, it is recorded, placed in the Palace Yard in London, after which date clocks became general. Clooks of the Crown. The different Royal Palaces contain a number of Crown clocks. A careful nivestory is kept of those at Windsort in Lordon.

rainces contain a number of crown cocks. A care-ful inventory is kept of those at Windsor in the Lord Chamberlain's Department. This inventory con-tains entries of 230 clocks which fill two large volumes. Many of them are works of art of the volumes. Many of them are works of art of the highest order, and one in particular possesses an interest of quite a romantic historical character. This is the clock that Honry VIII. gave as a present to Anne Boleyn on her wedding day. It rests on a modern gilt bracket in the Chapel retiring room, and is only four inches deep and ten inches high. Formerly it belonged to Horace Walpole, and when his effects were sold at Strawberry Hill, Queen Victoria bought it for fitto 5s. The weights are encased in copper gilt and beautifully engraved, "H.A." and true-lovers' knots on one, and "H.A." alone on the other. In the footnem's room at Wind-"H.A." and true-lovers knots on one, and "H.A." alone on the other. In the footmen's room at Windsor there is a specimen of an "Act of Parliament Clock "-a kind of clock that grew out of a Tax imposed on watches by Putt. This tax caused watches to be much less worn, and tavern-keepers adopted a bold mural timeplece for the benefit of the contract That the third the summer limits." acopieu a noid mural timepiece for the benefit of their customers. These timepieces were called "Act of Parliament clocks." The horological curiosity at Buckingham Palace is the Negress Head Clock—a French spring-balance production by Lepine, whom Voltaire engaged to establish a watch manufactory near Geneva. In this clock the hour numerals are near Geneva. In this clock the hour numerals are shown in one of the negress's twinking eyes and the minutes in the other. It stands two feet five and a half inches high, the head and bust of the negress being in ormalu and egriched with magnifecant decorative features. Of another clock in Buckingham Palace, made by Alexander Cumming, an Etinburgh man, for George III., it is said that Cimming received £2,000 for it and £300 a year for looking after it. looking after it.

Glog, a wooden shoe, often strengthened with from attachment, wors by factory and other workers in

many industrial districts in our own country, and by the peasantry of nunerous Continental nations. Clog-dancing is a performance in which the dancer wears worden footgear to provide a loud accom-paniment, and the exercise is one which admits of the attainment of considerable skill.

the attainment of considerable skul.

Cloisonné, a kind of fine pottery with enamelled surface, decorated with elaborate designs, the outlines of which are formed by small bands or filtets of metal. The Byzantines excelled in this class of work, but at the present day Japan and China lead in Cloisonations.

in Cloisonné-ware.

Cloisters are arched covered walks attached to monastic and ecclesiastical buildings, and usually monastic and ecclesistical buildings, and usually consist of a series of vaulted arcades surrounding a quadrangle. They were mainly intended as places of exercise and relaxation for the monks.

Closure, a device by which debate is cut short in the House of Commons. By a rule of 1887, any member, with the consent of the Speaker, or Chairman, can move that "the question be now put," and if the motion be carried by a specified majority the dis-cussion ceases and the question is voted upon. A similar rule obtains in both the French and American

legislative assemblies.

legislative assembles.

Clouds are collections of visible vapour suspended in the upper atmosphere at a considerable height—two to three miles on an average. When similar vapours gather close to the earth they form what we call /eg. Clouds are the result of a process of evaporation that is continuous over sea and land. They are usually classed as follows: the cirrus, feathery or resembling locks of hair; the cumulus, dense, hill-like masses, called summer clouds; the stratus or night cloud, which forms in level streaky sheets; the cirro-stratus; a collection of small round dappled clouds, usual in hot weather; the curro-stratus; the cumulo-stratus; and the numbus, or rain-cloud. rain-cloud.

Glower, various plants of the Trifolium genus, of which there are about 200 species. The best known kinds are Ill'hite Clover, a common pasturage product in nearly all parts of the world; and Red Clover, the most widely cultivated of all, much esteemed as

fodder for cattle.

Cloves are the dried flower buds of a species of myrile, grown principally in the Last Indies. Coal is a carbonaceous inineral substance, commonly black and easily breakable, and may be enther dull or shiny. It is very minaminable, and has formed for a long period the most important substance for fuel in employment in most civilised lands. It is composed of chemically altered vegetable matter, chiefly the timber of long-extinct lycopoduceous trees, and is found as a sort of strainfed rock in the coal-measures. The best coal for fuel purposes that belonging to the Carboniterous series of the Paleozoic system. Anthracite coal has lost nearly all its hydrocarbon by change or by pressure, and this and the more highly bituminous coals are greatly employed in manuficturing industries the greatly employed in manufacturing industries the world over, while those less so are used for household purposes. A ton of best quality (bitaminous) coal will yield 10,000 culvic feet of gas and 10 galious or so of tar, leaving behind a chaldron of coke and 20 galious of animoniacal higher. The total animal coal production of the world now exceeds 1,180,000,000 tons, valued at over \$420,000,000, the United States yielding more than Great Britain, and the two great English-speaking markings between them producing two-thirds of the Great Britain, and the two great English-speaking nations between them producing two-thurds of the universal coal output. It is calculated that there remain something like 135,000,000,000 tons of coal available in Great Britain and Iroland alone within a depth of 4,000 feet; but this estimate takes no account of the possible discovery of new coalhelds. There are about 3,200,000 minor in the United Kingdom, employing over 1,000,000 persons.

Coal Mining by Machinery has been somewhat slow in boing adopted in this country. For some years it has been in use in America and on the Continent. Now, however, electric power is being rapidly introduced, and m many collieries performs the work of pumping, hauling, coal-cutting, winding and

lighting. The electric coal-cutter represents one of the greatest of these improvements. Under the old system the undercutting of the seam so that it could be blown down was the hardest and most disagreeable work which the miner had to do. He had to lie on his side to use his pick, and continually inhale coal dust. Besides the work being hard the system coal dust. Besides the work being hard the system was not economical, as the miner wasted a great deal of coal. The machine-cutter, which is accessarily of powerful construction, is placed at one end of the coal seam. As soon as the current is turned on, the cutter arm—a revolving chain 6 feet long—awings round and cutter'its way into the seam, requiring no bed, but travelling along on its own shoes, forming its bed as it moves, hugging always closely to the seam, going up and down inclines, and steadily moving forward towards the fixed prop, to which is attached a steel rope. The machine is a steel box, weighing 2, acob. It is always partly embedded in the coal by its own weight. It requires very little attention. One man, a mmer of amechanical turn, has to look after the electric apparatus; another stands guard with a pick over the revolving cal turn, has to look after the electric apparatus; another stands guard with a pick over the revolving chain, shoveling away coal which may fall and tend to clog the wheel. The next operation after the coal is undercut is for holes to be drilled in the face of the seam by electric drills, when the coal is blowdown ready for the miner to pick into smaller lumps and fall they be the the coal is because it in the season of the seame of the season o and fill into trucks.

Coaling Stations are of the utmost importance to

JONALING BURNINGS are of the utmost importance to maritime nations as points of equipment, repair and refuge. Britain's principal coaling stations include Aden, Hong Kong, Singapore, Sierra Leone, St. Helena, Simonstown (South Africa), Jamaica and Mauntius, Her far-reaching Colonial possessions give to Great Britain a vast advantage over other formers that the second statement of the sec

give to Great Britain a vast advantage over other Powers in this respect.

Coal Tar. (See "Anilline.")

Coast Action, the influence of the sea on the coasts. The crosson of the shores of Britain having occasioned justifiable apprehension, the matter was referred to a Royal Commission in 1905.

Coastguard Service, an organisation formed in smuggling times for the prevention of contraband operations, but now a branch of the naval service

operations, but now a branch of the naval service and used for purposes of coast defence. There are 4,300 men employed in this service, at an annual cost (including ships) of nearly half a million. Coat of Arma, in heraldry, is a device containing a family's armorial bearings. In mediewal times it was an actual coat upon which such device was embroidered, and knights wore it over their armour. Cobalt, a steel-grey metal, malleable, and resembling nickel, found in combination with arsenic and sul-

Cobalt, a steel-grey metal, malleable, and resembling nickel, found in combination with arsenic and supplur. It is of great value in the arts as a colouring metium, its protoxide yielding a brilliant blue, largely utilised for colouring glass and porcelan, as well as a painting pigment.

Cobra, the hooded snake of India, Ceylon, and Africa, and one of the most venomous of the vipers.

It grows to a length of 4 or 5 feet and possesses the power of dilating its neck and head to a hood-like shape when disturbed, and has a bright mark on its

shape when disturbed, and has a bright mark on its neck which gleams like a pair of spectacles.

Coca, a South American shrub, which yields three crops a year of leaves and flowers. The leaves are chewed by the natives and act as a strong stimulant, enabling them to withstand hunger and fatigue to an astouishing degree. It is used in medicine as a tonic, and yields the alkaloid cocaine. Over 50,000,000

tonic, and yields the alkaloid cocaine. Over 50,000,000 pounds of coca leaves are grathered yearly, and the bulk of this yield is consumed in South America. Cochlineal, a dye-stuff consisting of the dried bodies of the females of a remarkable class of insects of the Cocus genus. These myects, which exist in countless myriads in tropical America, Java, etc., feed on a special cacti which is cultivated for them, and are othered which a test Theodorieur, rejudicies gathered twice a year. The colouring principle contained in the insects is carminic acid, and is a brilliant drimson. It takes 70,000 insects to make a pound of the dye-stuff.

Cochlicdus, a fossil genus of fish of the shark order, found in the Carboniferous Limestone of Bristol and

elsewhere. They possessed lateral teeth, marked with sub-spiral ridges and grooved after the manner of the shell of a univalve.

Oct he sheen of a univaried form signifying an admixture of giverides of mynstic and lauric acids. Coek-a-Bandy, a contrivance for twisting ropes, consisting of a hollow piece of wood through which a pin runs. By reason of the rotation of this pin when the cock-a-bendy is held in the hand, twist is imparted to the rope.

Contrades came into general use when the House of Hanover succeeded to the British throne. It was said that the black cockade and the Hanoverian rat arrived in England about the same time and under similar circumstances. Both were followers of King George I., and both became thoroughly unpopular. George I., and both became thoroughly unpopular. The Jacobies disliked the colour of the Hanoverikh cockade, the white being the badge of Prince Charlie and his father. In later times the cockade has become a badge of servitude. At one time it was only allowed to be worn by soldiers, but nowndays every British subject has cockade rights if he cares to swerelis them. The use is non-mainly-

days every infruin subject has cockade rights it he cares to exercise them. Its use is now mainly confined to the servants of the wealthy.

Gokkatal, a common name for the small cockatoos of the Calopsitta genus.

Gokkatoo, a white-plumaged bird of the parrot fimily with a movable crest, usually of some shade of yellow. Cockatoos are inhabitants chefly of Australia and the Malay Archipelago, and much in favour as pets.

favour as pets.

Goekatrica, a basilisk or fabulous serpent supposed by an exploded tradition to have been hatched from a suppositious egg of a coctatrice by a serpent.

Its gance or breath was, according to legend, fatal.

Cockie, the popular name of the shell-fish of the
genus Cardinm, found plentifully in sandy bays near
low-water line; there are numerous British species.

low-water line; there are numerous British species. Goekroach, commonly called the black-beetle, is a genus of insects that is distributed over many countries, though a native of Asia. It is of nocturnal habits, infests kitchens, pantries, etc., and is often difficult to get rid of.

Genoma. (See Cango.)

ocoa. (See Cacao.)

Cocoa Nut Palms are tropical trees which grow to the height of from 50 to 100 feet, and have their tops surmounted by feather-like curving leaves. The tops surmounted by feather-like curving leaves. The fruit of this tree is the ordinary occoa-nut, and grows in bunches of from 12 to 20. The fibre of the husk is used for a variety of purposes, such as making drinking cups, spoons, brushes, matting and cordage. The trusk of the tree is utilised in the manufacture of various fancy articles. Cod are well-known food-fish, found in abundance con the British coasts and upon the banks lying off Newfoundland, their capture and preparation for market, and the extraction of the oil they yield, forming important industries.

market, and the extraction of the oil they yield, forming important industries.

Codes, a term used to designate a system of laws properly classified. Some of these codes are of very ancient date. Codes were made by the Gothic tribes as well as by the Romans, who formulate several codes of historic importance, including the Theodosian code, summarising the Roman laws from the time of Constantine to 438; the Papian code, devised for the Roman subjects of the Burgundians eraces: the lustinian code, exactly the most code, devised for the Roman subjects of the Burgun-dians, 517-523; the Justinian code, 527-555 (the most important of the Roman codes), and the Gregorian code, another collection of Roman laws. The most important of modern codes is the Code Napoleon, compiled between 1803 and 1810, which start is in force. Frederick the Great made a code of laws for Prussia in 1751.

Codex, a name referring to the manuscripts of scripture, and comprising the Sinaitic codex of the 4th century, the Vatican codes of the same period, the Alexandrin codes of the 5th century, and others

the Alexandria coder of the sin century, and others. Goffee, a shrub found originally in Arabia and Abyssinia, but now extensively grown in Ceylon, the West Indies, Brazil and Central America. It yields a seed or berry which, after undergoing the necessary preparation, is ground and largely used in most countries as a popular breakfast beverage. The best coffee is the Mocha, an Arabian variety.

Coffee is a stimulant of great value, but its con-sumption in this country has considerably fallen off of

sumption in this country has considerably fallen off of late years. The beverage was first introduced into Europe in the 18th century, and the first London coffee shop was opened in 1822.

Cojnac. (See Brands.)

Cohesion is the state of cohering or uniting the particles of a homogeneous body. Its power is determined by the force required to separate its parts. This power is strongest in solid bodies, and weakest in elastic fluids, such as air and gases.

Ooke is a substance formed from coal by heating it without access of air, and comprises about 90 per cent. of carbon. It value is that it burns without emitting smoke or flame, thus it is largely used for smelting and heating purposes where the presence of smoke would be objectionable or injurious.

Cola-nut, the name of a seed obtained from the cola tree of tropical Africa, Brazil, and the West Indies. It has strong stimulative qualities, and contains two or three times as much caffeine as coffee.

Colonel, the title of a military officer, and ranking

Colonel, the title of a military officer, and ranking next above a lieutenant-colonel.

next above a lieutenant-colonel.

Colony is a settlement of people who have migrated from their native land to some possession of the mother country. The Phoenicuans were the first colonists we read of, and established themselves in various parts of the countries bordering on the Mediterranean. The Greeks were also considerable colonists, and later the Romans, Britain being at one time a colony of the Roman Empire. Colonisation, in its more modern significance, was the result of important geographical discoveries made in the Western world in the 14th century and later by the Spannards, Portuguese, Dutch and French. From about the begunning of the 17th century England developed a colonising spirit which soon extended the boundaries of the Empire. Newfoundland, Virginia, India, the West Indies, were gradually brought under British subjection, and large bodies of English pioneers and settlers proceeded to, and opened up, these various countries to cultivation and commerce. Austrain, New Zealand, and South Africa were added to our colonial possessions, and opened up. these various countries to cultivation and commerce. Australia, New Zealand, and South Africa were added to our colonial possessions, and even when the 13 colonies of America were lost to England, her possessions remained and continue to this day of immensely greater extent than the colonial possessions of any other country. The latest colonies to be incorporated with the Empire were those of the Transvaal and Orange River. It is estimated that one-sixth of the land of the globe is comprised within the British Empire.

Colosseum, the name of the Flavan amphitheatre at Rome, begun by Vespassan and finished by Titus A.D. 80. In general outline it still remains one of the most magnificent ruins in the world. It is 607 feet long, 572 feet broad, and 159 feet high. On the arena of this great building the famous gladiatorial displays and minuc naval battles used to be given, and 87,000 spectators could be accommodated.

Colosseus is the name which the ancients gave to any status of gigantic size. The Colossus at Rhodes, which was a bronze statue of Apollo, was the most famous, and reckoned among the seven wonders of the world. It was 70 cubits high, and stood astride of the mouth of the harbour, so that ships could sail between its legs. It was destroyed by an earthquake in 24 B.C.

Colour-Blindness is a defect of vision inducing blindness to certain shades of colour. It is stated that this defect shows itself in from two to six per cent. of males, while under one per cent. of women suffer from it. This colour-blindness is some-

women suffer from it. This colour-blindness is some-times total, but in the majority of cases only partial. Column, in architecture, is an upright solid body serving as a support or opedecoration to a building Columns consist of a pedestal, a shaft, and a capital, over which the supported entablature rises. They are a sumed according to the styles of architecture of which they form part, being Doric, Tuscan, losic, Corinthian, or Composite as the case may be. Colsa. Oll is obtained from crushed rape-seed, and is valuable both as a lubricant and an illuminant.

Combustion, the process of burning, arises from the rapid oxidation resulting from the combination of oxygen with any inflammable material.

oxygen wan any maximum me material.

Comets are celestial bodies which move about the solar system in elliptical parabolic orbits. Usually these stag-like bodies are accompanied by a long stream or tail of light. The parabolic comets are seen once only, and do not reappear; the elliptical comets are periodic, and their recurrence can be calculated with accuracy. Comets are of enormous areautiful, expressions conversing validities of the true. magnitude, sometimes covering unilions of leagues, but their light is feeble in comparison with that of

a star. The great comet years, so far as recorded, have been 1456, 1680, 1811, 1843, 1858 (Donati's), 1861, 1874 and 1881.

Comitia were gritherings of the Roman people for

the purpose of voting on public affairs. The comilia curiata was composed of repre-entatives of the patrician families, and dealt with State affairs, religion, etc.; the comitta centuriata consisted of frigion, etc.; the transfer of laws, capital crimes, and imperial affairs; and the comitia tributa, which was a pleberan assembly, concerned with local matters,

magisterial appointments, etc.

Comitium, the place of assembly of the Roman citizens; it stood adjacent to the Forum, of which it

was sometimes reckoned a part.

Commander, a naval officer next in rank below a captain. His position is that of sole commander of a vessel of the third or fourth class, or of second in command of a first- or second-class slap.

Commander-in-Chief was the title of the highest commander-in-times was not title of the ingress officer in the British Army until 1921, when in its place the office of Inspector-General of the Forces was created, to which position the Duke of Connaught was appointed, being succeeded in 1927 by Ger. Sir J. D. F. French, who resigned in 1924, and was followed by Gen. Sir C. W. H. Douglas.

Commodore, a naval officer ranking next below a rear-admiral and next above a captain. It is a title

rear-admiral and next above a captain. It is a title usually conferred upon a captain appointed to a particular service, and is only temporary.

Common Eaw, in Figland, is the unwritten law established by custom, usage and precedent, and not by statute. Both statute have and equity over-rule common law when courts are called upon to decide between them

Common Prayer, Book of. (See Book of Common Prayer.)

Commons are unenclosed tracts of land dedicated to the use in common of all the inhabitants of the the use in common of all the inhabitants of the district or township in which they lie. In old times almost every parish had its common, but under the altered conditions of modern existence, commons became less and less of a necessity, and many have been enclosed and built upon, the rights of the commoners being compensated under provisions laid down by Act of Parliament. A Commons and Footnath Propertation Society was formed in MAC. Footpath Preservation Society was formed in 1865.

Communalism, the theory that every communal

district should have autonomous government.

Commune is a municipal administration division in

Commune is a municipal administration division in France, Italy or Belgium, generally presided over by a mayor and municipal council.

Commune of Paris was originally the Paris Revolutionary Committee, established in 1985, but superseded by the Convention of 1994. The second Paris Commune was that of 1811, which took second raris Commune was that of 1871, which took possession of Paris after the withdrawal of the German soldlery, and destroyed the Tuileries, the Vendôme Column, the Hôtel de Ville and other public buildings, but was ultimately suppressed by the National troops.

the National troops.

Commanism, the system which claims to put an end to private ownership and establish the absorption of all proprietary rights by the State for the common good. It also claims the right of the State to control priving the division of labour.

Commanism (or Mariner's Compass) is an instrument by which the magnetic meridian is indicated; and comprises a horizontal bowl containing alcohol and water, a card upon which the 3 points of the compass are marked, and the steel needle which

always points to the meridian. The origin of the Mariner's Compass is unknown, but it is supposed to have come from China.

Compurgation was a system of trial which prevailed up to the reign of Elizabeth, whereby an accused person could claim the right to summon twelve personal friends to testify their helef in his

innocence. From this system grew trial by jury.

Conchology, the science of shells, which was usually divided into three classes—univalves, bi-

valves, and multivalves.

Conclave, an assembly of Roman Catholic Cardinals

Concleve, an assembly of Roman Latinoic Cardinals met together to elect a Pope.

Concomitance, a obstrue teaching that Christia body exists entire under each symbolic element.

Concordance, a supplement of references, notes, and explanations added to any important work such as the Bible, Shakespeare's plays, etc.

as the Bible, Shakespeare's plays, etc.

Conoordat, an agreement or convention between
the Pope and a secular government regarding
ecclesiastical matters. The Concordat of Worms
in 1122 between Calixtu II. and the Emperor
Henry V. was famou, as dec.dnig a long struggle in
regard to investiture. In 1801, Napoleon concluded
a concordat with I'us VII., defining the restored
relations between the head of the Church and the rench Roman Catholics.

French Koman Carnonics.

Concrete is a substance formed by uniting in coupulated masses various hard materials such as stone chippings and particles, sand, gravel and lime. It is much used for floors, foundations, sea-walls, etc. In recent years remtorced concrete-i.e., concrete combined with steel-has come greatly into use, and performs a powerful part in large constructional work.

Condor, a large vulture of brilliant black prumage,

and having a circlet of white feathers round its neck. It is a native of the Andes.

Condottiar! were mercenary soldiers engaged in the wars of the Italian States in the Middle Ages.
Conger-Eel, a marine eel sometimes found of the length of 10 feet and weighing 100 lbs. It is common

round the British coast,

round the British coast.

Congregationalists, or Independents, are the oldest sect of Nonconformists and hold that each church should be independent of external ecclesisatical authority. They spring from the Brownists, who arose in Elizabeth's days, but were compelled to take refuge in Holland. Under Croinwell they were able to extend their ministrations and became a powerful body. Charles II.'s Act of Uniformity drive them forth again, but they regained full liberty of worship under William III. In the British Isles there are over 3,000 Congregationship immister, over 5,000 churches, and nearly half a million communicants, while the number of communicants, the legislature ascendibly of the Unifod Stues, which first met on March 4, 1789. It consists of 15e,akte first met on March 4, 1789. It consists of 15e,akte first met on March 4, 1789. It consists

of a Senate and a House of Representatives, Conic Sections form an interesting division of the science of geometry, and have to do with such curved in y as (an be produced by the intersections of a plue with a right circular cone. Five different sections can be found; the triangle-the parabola, the tricle, and the ellipse.

Coalfarm are cone-bearing trees, including firs, p.nes, cedars, cypresses, junipers, yews, etc., and are widely distributed. They are important timber trees, and many of them yield resins and juices of

considerable commercial value.

Conjunction, in astronomy, means the meeting of two or more heavenly bodies in the same longitude.

Conscience Money is money paid to the revenue

Consolence Money is money paid to the revenue by persuits who have previously omitted payment. Consoription, a system of compulsory military service by lot or enrolment, introduced in France, or 1798, but now generally superseded. France, Germany, Austria, Russia, and some other countries have adopted a general compulsory service, rendering all able-bodied males liable to a term of soldiering. A National Service movement for a modified form of conscription for this country has been much discussed of late, and has for its leader the veteran war-captain Lord Roberts.

Conservative is the political Party name adopted by the Tories about the time of the passing of the first Reform Bill (1832).

Constatory, a term applied to the private council of state under the Roman Empire, but in later times used to designate the higher ecclesiastical courts and senates of the Anglican and Roman churches. Constable, an officer of high rank in medicavel times,

Gonetable, an officer of high rank in medieval times, and still, in some few offices, such as the Lord High Constables of England and Scotland, representing considerable dignity. Before the introduction of the police system in England every hundred and parish had its constables upon whom devolved the duty of keeping the peace. * The official designation of a policeman is police constable. Cons

consultations is the term applied to a group of fixed stars. According to Ptolemy, there were 48 constellations. Others were discovered and added from time to time, and now there are 85 constellations, which have been chiefly named from the classical mythology.

Constitution implies the organisation of the great body politic of the nation with regard to legislative, judicial, and executive authority and power. The legislative power is vested in the King, the Lords spiritual and temporal, and the House of Commons. The judicial authority rests with the judges and magnistrates, not removable after appointment except for very serious fault; the Jury system, which is a very important part of the British constitution, affording a guarantee that no accused person can be dealt with as guilty until twelve of his peers have convicted hun. The executive power is nominally in the hands of the Sovereum, but is really exercised by the responsible ministers, who owe their positions mainly to the popular preferment, in this country. mainly to the popular preferment, in this country.

Consubstantiation is the belief that the body and

Consubstantiation is the belief that the body and blood of Christ become part of the bread and wine partaken of at Holy Communion.

Consul, the title borne by the two chief magistrates of the Roman Republic. Three consuls were appointed for France after the dissolution of the Directory in 1799. Napoleon becoming First Consul and holding the office until 2604, when he was made Emperor. At the present day diplomatic and commercial representatives abroad of the British, American, and other governments are styled consuls.

mercial representatives abroad of the British, American, and other governments are styled consuls. Contraband Goods are such as are prohibited to be imported or exported, especially such as are allowed to be sold to beligerents in time of war. Convention is an assembly of representative persons delegated to decide important questions, Convocation is an assembly of ecclesiastics for dealing with church affairs. There are only two in England, those of Canterbury and York under the headship of their respective archibishops.

Cobiles are Asiatic labourers employed in large numbers in tropical and sub-tropical lands for planta-

numbers in tropical and sub-tropical lands for planta-tion and menial work of all kinds.

tion and menial work of all kinds.

Copper, one of the most familiar of metals, used in ancient times as an alloy with an in producing bronze, and preceding iron as an industrial material. Copper ores are most abundant in North America. Spain, Chil, Australia, and Prussia, also yield large quantities. The cluef copper-mining region of England is Cornwall, and Swansea has attained creek calculations. A copper-spaining district. All great celebrity as a copper-similaring district. All copper compounds are poisonous. Copper sulphate is largely used in callco-printing and in the production of blue and green pigments. The year'd quantity of copper raised throughout the world is quantity or copper raised throughout the world is some 790,000 metric tons, over 75,000 "six being from the British Empire, mainly Australia and Canada. The consumption of copper for ammunition purposes in the great war 1914-151 was so wast as to deplete all the usual sources of production, and led to much contraband traffic between neutral and collisionate countries the service was a few forms. helligerent countries, the extra supply from America

being very large.

Copperas, sulphate of iron, or green vitriol, employed in the production of sulphuric acid and in

the manufacture of ink and black dyes.

Copts, descendants of the ancient Egyptians, professing a modified Christianity, the head of their

system being a Patriarch. They do not marry out of their own race.

of their own race.

Coral, a hard calcareous substance secreted by certain zoophytes for their habitation and support, varying in colour and texture, some being red or pink and some white, some compact and smooth, and some rough and porous. The structure of the coral secretions assumes a variety of forms, fan-like, tree-like, in mushroom shape, and so forth. Coral is mainly obtained from the Mediterranean. The coral roefs of the Pacific and Indian Oceans and the Pacific Sea are often many miles in extent. the Red Sea are often many miles in extent.

the Ked Sea are often many miles in extent.

Ordita, a smokeless powder adopted for small arms and heavy artillery by the British Government in the naval and military services in 1889, and composed of 58 parts of intro-glycerine, 37 of guacotton, and 5 of vaseline. Superseded by an improved explosive in 1902.

proved explosive in 1902.

Gorduroy, a strong cotton fustian, ribbed and made with a pile, so cut as to leave a surface ridged in the direction of the warp.

Gork, the bark of a species of oak grown largely in the South of Europe and North Africa. The cork tree is said to yield bark every six to ten years for 150 years, and grows to a height of from so to 40 feet. Its lightness and elasticity enable it to be used for a variety of commercial purposes, especially for stoppers of bottles.

Cormorant, a large swimming and diving bird, of which there are over 20 species. It have mostly on fish and is famed for its voracity. It is found in Europe, Asia, and America.

Corn, a term used to designate such cereal products as are used as food, but more especially applied to wheat in this country, to oats in Scotland, and to

maize in America.

Cornell University, at Ithaca, New York State, was founded by Ezra Cornell, and affords education to 3,000 male and female students.

to 3,000 male and female students.

Genz Laws were statutes intended for the benefit of British Agriculture, and were for the most part prohibitive of exportation and innposed a duty on imported corn. From 1436 to towards the middle of the 19th century such laws were in force, and were often of a very stringent nature. These laws became so oppressive and caused corn to reach so high a price that the poorer classes were plunged into distress. A powerful anti-corn law agritution was organised, of which Cobden, Bright, and Villiers were the leaders, and Sir Robert Peel, in 1846, passed an Act lowering the corn duty to is, per quarter, were the leaders, and sir known reet, in lade, passed an Act lowering the corn duty to 1s, per quarter. This gave quick relief, turned England into a Free Trade country, and led to a period of prosperity which has in the main been continued ever since. The corn duty was ultimately abolished entirely.

The com duty was ultimately abolished entirely. Coronation Expenditure. King Edward VII.'s coronation established a record for modern times, costing the sum of £359,000. The coronation of George IV. cost £28,238; and that of William IV. only £50,000, it being announced that "it was the hope of the King and the Ministers to prevent a heavy burden from falling on the people." In connection with George IV.'s crowning an elaborate record was intended to be published, but it proved too expensive an undertaking to complete. The part which dild appear contained seventy-three coloured drawings, "finished like enamels, on velvet and white satin," each portrait costing so coloured drawings, "finished like enamels, on velvet and white satin," each portrait costing so

guineas.

Goroner, an officer whose duty it is to hold inquests on the bodies of people who are suspected of having died from other than natural causes. He is usually either a lawyer or a doctor; an inquest takes the form of a legal inquiry, a court being constituted, with a jury, the coroner being the presiding officer. There are in some places fire-inquests also.

Corporation, a body of persons, authorised by law or Crown brant, to earry out certain specificatives, and to hold property or accept responsibilities as if but one person. Corporations, which have been known from very early times, are either sole or aggregate; that is, consist of only one person, or two or more persons. A bishop and his successors may form a sole corporation, a mayor

and aldermen an aggregate corporation. Every city and town of importance in England is governed by a municipal corporation, consisting of a mayor, aldermen and councillors. A mayor is elected for one year, an alderman usually for six years, and a councillor for three that the many councillors of the second state of the councillors of the second state of the second

Corpus Christi Festival is one of the great celebrations of the Roman Catholic Church, and takes place on the Thursday after Trinty. It was instituted by Pope Urban IV. in 1264.

Corpus, the name of the Parliamentary assemblies of Separand Burtural

Spain and Portugal. Costly Treasures. Spain and Portugal.

ostiy Traguness. Mr. Pierpoint Morgan was the
possessor of some of the costlest things in the
world. He bought the late Lord Anglessy's rockcrystal ewer which fetched 4,000 guineas at auction,
in London. Amony Mr. Morgan's other treasures
were the Raphael Madonna of St. Anthony of Padua, were the Kapinger Matching to St. Authors of Fadua, for which he paid £100,000; four tapestres after Boucher, which cost hun two million transs; ten decorative panels painted by Fragonard for Madane Dubarry, valued at over £100,000; and Gainsborougit's "Stolen Duchess," for which he Gainshorough's "Stolen Duchess," for which he gave £30,000. He bought the Pfungst collection of antique bronzes for £15,000; and the Gavet collec-tion of Rembrandt etchings for a similar sum; he owned the famous old silver gathered together by When the minus out sive games to be the right the Mannheim and paid something like 250,000 for the Mannheim collection. His library included such are treasures as the "Evangela Quature," bought for £10,000; a 5,000 guinea copy of the "Palmorum Codex," the manuscript of Book I. of "Paradise Codex," the manuscript of Book I. of "rarause Lost," the reserve price of which wis £5,000; and a large number of Caxtons, four of which are valued at £5,000. (See Morgan, Pierpoint, in Pronument People Section.)

Promusent People Sections.]

Cotton, the name of a plant of several species, hearing large yellow flowers with purple centres. These centres expand into pods, which at maturity burst and yield the white fibrous substance known as cotton. Cotton grows most alumdantly in the United States, but is also cultivated with success in the West Indies, India, Brazil, and the Levant. Octon Indiastry of Great Britain maintains at least three inflions of people. The capital invested in it is not loss than 2,00,00,000 for the raw insternal, by far the greater part of which comes from foreign countries. That raw cotton is manufactured into yam and fabrics valued roundly at 2,00,000,000, and little more than a fifth of the product is consumed in the homel market. Eighty per cent. of the total in the home market. Eighty per cent, of the total production of the Lancashire spindles and looms goes to foreign countries in spite of tariff walls, into neutral markets, and into our own possessions. It is estimated that there are about 140,000,000 spindles for the spinning of the world's cotton; and of these this country has over 55,000,000.

Cotton Beed Oil is an oil extracted from the seed of the cotton plant, and is of considerable com-mercial value, being often used as a substitute for

olive oil.

Count, a foreign title of nobility corresponding in a sense to that of an English earl, but of much inferior status socially in reality. The wife of an English earl

is called countess

County, signified originally the territory of a count or ear; now it comprises a shire or one of the administrative areas into which the kingdom is divided. ministrative areas into winer the single-sort and Wales have 52 counties. Scotland 33, and Ireland 32. Some cities and towns are also counties in themselves, so constituted by charter.

counties in themselves, so constituted by charter.

County Councils were established by the Local

Government Act, 1888. They are popularly elected

boiles, invosted with administrative powers of great

scope, including the making and keeping in repair

of roads and bridges, consideable educational

authority, the control of reformatory and industrial

schools and lunatic asylums, the appointment of

coroners, the licensing of music balls, and many

other duties. County Counciliors are elected for

three years, and county Alderinen for six. A

chairman is elected by the whole body, and may be

chosen from the outside if deemed expedient.

County Courts were established in England in 1842, the jurisdiction being then limited to actions up to \$10. Numerous extending acts have since been passed, and up to December 31, 1904, actions to the \$50 limit, or by agreement up to \$100, could be brought therein. The act which came into operation January 1, 1905, however, raised the limit of the ordinary jurisdiction to \$100. There are now \$4 county court circuits, and about 500 courts. Annually over a million and a quarter actions are instituted in our county courts, and of nearly four millions sterling (calmed therein in the aggregate every year hing cainied therein in the aggregate every year over one-half is recovered. Of the total number of bankrupicy petitions something like 75 per cent. are filed in the county court.

Coup d'Etat, a sudden act of State of a revolutionising character and carried out by force. The best known example of modern times was the over-turning of the French National Assembly by Louis

Napoleon in 1852, whereby he became Emperor.

Courier, a servant or factorum accompanying a person or party on a journey, to make and superin-tend the arrangements as to conveyance and accommodation; formerly the term implied a messenger despatched on any mission of importance necessitating speed and circumspection.

Court Leat, a court of record held annually before the steward of any particular manor or lordship; anciently the term meant a local criminal court for

dealing with petty offences.

Covenanters were a body of Scottish Presbyterians who in the cause of religious liberty, in 1038, and again in 1643, pledged themselves to uphold the Presbyterian faith, as against both prelacy and

Covent Garden, in London, now a great flower and fruit market, was once a convent garden owned by the abbot and monks of Westminster.

Craba are familiar crustaceans, carrying a shell, breathing through gills, and being provided with ten external limbs or claws, the side and smaller limbs being used for walking, and the two front claws. being used for walking, and the two front class serving as fingers for grasping purposes. There are many varieties, including land crabs, spider crabs, red crabs, etc. Soit shell crabs are the ordinary edible crabs at the moulting period.

Crappe, a light, crimpy fabric made from silk, the natural gum being utilised for the production of the critp, wary character of the material. A coarser kind of crape is made from cotton.

Crass. A part enumeration of a particular belief or

Ring of Crape is made from cotton.

Greed, a brief enumeration of a particular belief or religion. The Apostles' Creed is adapted from I. Coruntians, xx., 2-8. The Nicene Creed, which proclaims the Godhead of Christ, was promulgated at Nicæa in 25th. The Athanasian Creed, which expounds the doctrine of the Trinity, dates from the 5th century.

Cremation, the ancient custom, to some extent revived in modern times, of burning the dead. Many scientific men commend the practice on hygienic grounds, and numerous eminent people have in recent years been cremated in accordance with instructions given by will. The principal crematoria in England are at Woking and Golders There are other crematoria at Manchester and Glasgow.

Creole, a West Indian and Spanish American term applied to a person born in the country but of a foreign race. It is also loosely used to indicate a foreign race. It is also loosely used to indicate a negro born in the country, not brought from

Craosote, a substance obtained from coa! tar by fractional distillation from crude pyroligneous acid. It is a valuable autoseptic, prefents decay in wood,

and is used to give a peaty flavour to whisky.

Greasy (or Crécy), the French village, near Abbeville, where Edward III, gained his great victory

vine, where glower 11346.

Cretaceous Bystem is the term given to the uppermost strata of nocks of the Mesozic permal It has the following sub-divisions: Maestricht beds, chalk with finits, chalk devoid of flints, chalk mari, upper greensand, and gault.

Cricket, an old English outdoor game, played as

far back as the 13th century, and now the national summer game. (See Pears "Dictionary of Sports and Pastimes.")

emd Pastimes.")

Grieket, a genus of insects of the grasshopper order, which move by leaps. The male produces a chirping noise by the action of its wings.

Grimean. War was begun in the Spring of 1854, and lasted until March, 1856. Great Britain, France, Sardinia and Turkey were engaged as allies on the one side, and Russia alone on the other.

Crimp, a person whose nefarious occupation was to decoy men into naval or military service for a con-sideration or, alternatively (Cometimes also incident-ally).one who kept a house of accommodation to which ally, one who kept a nouse or accommission to war, as allors were altured and plundered. The payment of "crimpage" by ship-captains or owners is now illegal, and "Jack sahore" is protected as much as possible from land-sharks of the crinip genus.

Crinoline was the name given to a stiff material, originally of horse hair, worn by ladies as a skirt-expander from about 1855 to 1860. It was a modern adaptation of the furthingales and hoop skirts worn

in earlier times.

in earlier times.

Crooodile, the name of the largest existing reptile, and classed with the alligator and the gaval. The crocodile inhabits the Nile region, the alligator the lower Mississippi, and the gaval is found in the waters of the Ganges

Croftars are farmers of the western coast-islands of Scotland, who occupy very small loodings and elected a living by fishing and other occupations.

Crommach, the name quyen foun ancest monuncital

out a living by assung and other occupations.

Gronnleds, the name given to an ancient monumental
erection consisting of a large rough stone placed on
three or more upright stones and found in various
parts of Great Britain and the Continent.

Grookesite, a brittle minoral of leaden-grey hue
and metallic lustre, found in Norway, and named
after Sir William Crookes, the discoverer of thalhum.

Grore, a Hindoo word meaning ten millions, and used

commercially to signify that number of rupees.

Grozier, the staff, or crook, of a bishop carried before that dignitary on special episcopal occasions.

It is generally richly decorated in gilt at the top.

Crow, a genus of well-known birds, including the common crow, the rook, the raven, and the jackdaw. It is a gross feeder, living on flesh, garbage, insects, etc., is of black plumage, and builds in trees.

erc., is of olack plintage, and outlos in trees.

Grusades were military expeditions undertaken by some of the Christian nations of Europe with the object of wresting Jerusalem from the Mahomedans. object of westing Jerusalem from the Mahomedans.

Proof the Hermit started the agitation in 1093, and
from that date to 121 various cruvades were undertages, under Godfrey of Boullion, which succeeded
in capturing Jerusalem: 2nd, 1147-9, led by Louis
VI., and unsuccessful; 3rd., 1160-9.; m which
Richard I. took part, against Saladim, also unsuccessful; 3rd., 1160-9.; m which
Richard II, took part, against Saladim, also unsuccessful; 3rd., 1160-9.; m which
Richard I. took part, against Saladim, also unsuccessful; 3rd., 1160-9.; m which
Richard I. took part, against Saladim, also unsuccessful; 3rd., 1160-9.; m which
Richard I. took part, against Saladim, also unsuccessful; 3rd., 1270-128. In the saladim of in these enterprises, and when all was done Jorusalem remained in the possession of the "infidels."

Gryolite, a muneral found in extensive beds in Greenland, and one of the main sources of aluminum.

It is also used for making a creamy white glass in conjunction with silica and oxide of zinc.

Grypt, a vaulted subterranean portion of an abbey, cathedral, or church, now generally used for burials

cathedral, or church, now generally used for burials or monumental purposes.

Cryptogamia, the twenty-fourth and final order in the loctanical system of Linnaeus, including the l'ung, Algre, Flices, and Musci.

Crystal Palace, a gigantic glass and iron building standing at Sydenham, erected in 1853-54, mainly from the materials of the Hyde Park Creat Exhibition building or 1851. It covers over soo ares, with the grounds Funancial difficulties made an application to the Court of Chancery necessary in 1911, and a sale of the estate was ordered. Attempts were

made to save the property for the nation, and the made to save the property for the matter, and the Court fixed £210,000 as the sale price. The Earl of Plymouth thereupon paid a deposit of £20,000, and the public was appealed to for subscriptions for the the public was appeased to for subscriptions for the balance. On June 30, 1913, a sum of 50,000 was still wanting, although meanwhile Lord Plymouth had advanced the money for the legal completion of the purchase. Within twelve days from June 30, however, in response to an appeal through the Times the Lop.000 was raised, and the Crystal Palace now

belongs to the people.

Gubiam. (See Post Impressionism.)

Guckeo, a well-known migratory bird which is found in Great Britain from April to July, and has very characteristic note, uttered during the mattag season only by the male. It lays its oggs in the nests of other birds, but only one egg in each nest.

Culdees, the name of a Scottish monastic fraternity, not attached to any of the recognised orders, and

not attached to any or the readynass was assessed as a sixting from the ght to the 14th century.

Cunelform, the term applied to the arrow-headed characters tound in Assyria, Persia, and Mesopotimia. Good examples may be seen in the British Museum, some of their several thousand years old.

museum, some or them several thousand years old.

Cupola, the innor portion of a dome. Famous

cupolas are those in the Roman Pantheon, the

Mosque of St. Sophia at Constantinople, St. Peter's

at Rome, and St. Paul's in London

Curfacy, the bell which William the Conqueror order

to be rung at sight o'clock and built in the

to be rung at eight o'clock each night in the towns and villages of Britain, as a signal to the inhabitants to extinguish lights and go to bed. It was also ished in 1700, but at Ripon, Sandbach, and Wokingham, the curlew is still rung as a matter of custom.

Curlew, a wading bird of which there are several species. It frequents marshy places, feeds on worms

and insects, and possesses a very long-curved bill.

Cyanogen, a compound of nitrogen and carbon obtained from heated dry mercury cyanide, and obtained from neated ary mercury cyanide, and highly poisonous. It combines to form numerous cyanides, and is of great use in producing, in combination with iron, various deep blue pugments, including Prussian blue, Clunese blue, etc.

Cycling, a recreation largely indulged in by all clusses. Cycles have undergone great improvements.

is recent years, the machines now in universal use, of the "safety" order, being easy to ride, light of weight, and capable of being ridden at a good speed.

They can now be bought from £5 to £15. Cyclone, a circular, whirling wind of great power

and intensity, occurring in warm climates.

Cymri, or Kymri, a branch of the Celtic race which settled in Wales and Cornwall. Settled in writes and community.

Synios were a set of Greek philosophers, founded by Antisthenes, the pupil of Socrates. They held that virtue was the only good, and contemmed arts, sciences, pleasures, and riches. Diogenes was the most famed of the cytue.

Cynocephalus, a genus of monkeys of the Old World with dog-like heads, and belonging to the bahoon branch of the Simada.

Danoon branch of the Simiade.

Gzap is the title of the Emperor of Russia, and is derived from Cæsar The first Czar was Ivan IV., crowned in 1547. The Czar's wife is styled Czarına, and his eldest son Czarowitch

Gzeolis are a Siavic branch, and include the Bohemians, the Moravians, and the Slovaks; they inhabit Bohemia, Moravia, and North Hungary, and hunder street of control of the Siaving street of the Siaving s

number some 7,000,000.

Dab, a species of flat fish, common round the British

Dab, a species of flat fish, common round the British coast, and a better table fish than the founder.

Dabber, a mass of cotton-wool or similar soft material fastened in a circular form, and used by etchers and engavaers for "dabbing" their plates.

Daboya, an Indian viperind serpent, venomous, and of nocturnal habits, of the genus Cabbia.

Daogs, a small fresh-water hish of the carp family, or elegant shape and silvery appearance.

Daoalo, a quaint-looking bird of the kingfisher order, common to Australia, one variety of which is known as the "laughing-jackass."

Deahahund, a German badger-hound, remarkable for its short legs and long body.

Daotta consists of plagioclase and quartz, together with minerals of the hornblende and pyroxene families. Occurs mostly in Trausylvania and the Cordilleran districts of America.

Decoits, Indian brigands, or professional robbers. who were formerly very numerous and terrorised the districts they infested, especially Lower Bengal. Of late years they have been in great part dispersed, but bands of them still give trouble in the more

remote places.

Decrydium, a genus of plants of the yew family, native of New Zealand and the East Indies, the young branches of which are used in the making of a beverage not unlike spruce beer.

a poverage not unlike spruce beer.

Dactyl, a measure in versification, consisting of a
foot of three syllables, the first long, and the second
and third short, as donugly, verily.

Dactyliomancy, the art of divination by means of
finger rings, now less resorted to by professors of the
occult than formerly.

Dactylomys, a South American rodent of the size

of a rat, possessing a long scaly tall.

Dactylopterus, a fish of the gurnard family, with wing-like pectoral fins; sometimes known as the flying fish, though that appellation is more generally given to Exocatus extlens.

Dado, a term denoting the portion of a pedestal between the base and the cornice; also applied to the lower part of the walls of a room when decorated

differently from the upper part.

Dafile, a kind of fresh-water duck, with long supple tail, found in Europe, Asia, and America. The printal duck belongs to this genus.

Draffer, a sharp-pointed instrument for stabbing, in

frequent use in mediaval times as a private weapon, and still occasionally carried on the person in Italy

Dagger-ale, a kind of liquor often referred to in 16th century English hterature, and sold at the sign of the Dagger in Hollion, a London house much frequented by the gallants of the time.

Dagoba, an edifice dedicated to the custody of relics of Buddha, and numerous in the temples of Ceylon

and other Buddhist countries

Dagonal, the feast of the Philistines in honour of Dagon, their god, which was depicted with the head of a man and the lower part of the body like a fish.

Daguerrectype, a photographic process invented in Paris by M. Daguerre during the years 1824-30, resulting in the employment of the camera for the exposure of a silver plate, sensitised by rodine funies in a dark chamber.

Dahabiyeh, a kind of boat much used on the Nile, broad at the stern and tapering off gracefully at the

prow. It carries one or two masts and lateen salls.

**Daily Chronicle," a London morning Liberal paper, founded by Mr Edward Lloyd in 1996, and incorporating the **Clerkenwell News.* Its price was a penny until 290, when it was reduced to a

halipenny.

Daily Graphio." an illustrated penny dally morning paper, started in 1890 as an adjunct to the weekly (1904).

"Daily Mail," an Imperial-Unionist halfpenny morning paper commenced in 1896 by the Harms-

"Daily Mirror," founded in 1994 by the Harms-worths as a penny morning illustrated paper for women, but, being unsuccessful on those lines, was

turned into a general halfpenny illustrated, and became popular.

"Belly Rews and Leader," a London Liberal morning paper, started as the Party News in 1840, whose first editor was Chares Dickens. Among its later editors have been Sir H. Wedlucy, Mr. E. T. Cook, and Mr. A. C. Gardiner, Its price was reduced to a halfpenny in 1904.

"Bally Telegraph," a penny Imperial-Uniquist mowing newspaper, started in 1655, and having a very large circulation. Lord Burnham is chief proprietor. Sir Edwin Amold was its editor for many years.

Datasto, a foudal lord of Japan, forming a class who, from independent princes, have declined to governors of their particular districts under the rule of the Mikado.

Dairies are properly places where milk is stored and converted into butter and cheese, but in large cities the term is applied to shops where milk is sold only. Great improvements have been made in

recent years in the construction and management of dairies, and hand processes in the making of butter and cheese have been largely superseded by

mechanical power.

Dais, an elevated par! of a floor, or a platform, in a large room or hall. It usually has a seat or seats upon it, and is covered with a canopy. It is the place of honour occupied by the most distinguished

place of honour occupied by the most ansinguished personage or personages, as the King, the Lord Mayor, a bishop, etc Dak, the name given to the native post service m India, maintained by reigy of runners.

Dalmatian Dog, the old-fashioned coach dog, white, spotted with black. Often called the "pluming the coaches of th

pudding deg."

Dalmatic, a wide-sleeved ecclesiastical vestment, reaching below the knee. Worn by bishops and deacons over the alb or stole.

deacons over the all or stole.

Dama, the scientific name of the fallow deer, which is fawn coloured or brown, dotted with white spits.

Damaak, a texhie fig red fabric, made in various forms, with silk threads of many colours, as originally woven in the city of Damascus; m a combination of silk and wool or cotton; in linen only for table

of sik and wool or corton; in men only fer table cloths, etc; or in corton.

Damatkeening, the art of inlaying one metal upon another, largely practised in the Fast in medicial times, especially in the decoration of sword blades. In it- modern form it has been greatly developed.

Damp, humelity, moisture, assumes numerous forms, Fire-damp, however, has nothing to do with humidity or mosture (the term damp in this case being derived from the German, damps, sapour, but consists of a poisonous vapour met with in mines and often the cause of explosions; choke-damp is mainly composed. of carbonic acid gas, and causes surfocation,

Dan, a mining term applied to a vessel in which water is conveyed to the surface.

water is converted to the surface.

Danalite, a translute at numeral occurring in various parts of the United States of America.

Danburtie, a substance found in crystals in various regions of America, and in Switzerland, and of a yrillowsh-white colour. A borosilicate of calcium.

Dancette is an architectural term, applied to a form of ragizag isoulding of it in found in ancient buildings of the Romanesque or Norman order.

Banclind, a form of groups of requirely professional so

Dancing, a form of exercise, generally performed to a musical accompaniment and comprising many different styles. It was originally adopted as a religious observance, was gradually developed with the advance of music, and in modern times has been highly cultivated professionally. On the stage it is one of the greatest attractions in the form of ballet, and in private life is much indulged in, balls and dances forming a leading society diversion. Among the different siyles of dances, step dances performed by one person—such as the Jig, hornippe, etc., are among the oldest, while dances executed in pair, including the waltz, polks, schottische, etc., are nore modern. Of what are called square dances, the country dance takes precedence in point of time : they also comprise the quadrille, the reel, mazurka, etc. Minnets, gavottes, corilhons, etc., belong to the stately period of the 17th and 18th centuries. Certain foreign dances of questionable taste, such as the tango, have had a temporary vogue in recent years. For references to the chief dances see Sports and Pastimer section. Also see Ballat in this section.

Dandie Dinmont, species of Scotch terrier named

after the well-known character in Gur Mannering. Dandies, the name given to a class of exquisites prominent in early Victorian days, and attracted attention by excessive regard for dress.

Danegeld, a tax imposed in England in Anglo-Saxon times to raise funds for resisting the Danes. Edward the Confessor abolished the tax, but it was

revived by the Conqueror and subsequently retained, under another name, long after all danger from the Danes was past.

Danelaw was the law enforced by the Danes in the fifteen English counties occupied by them in the oth century, and extending from the Thames to the Tees northward, and from Watling Street to the German Ocean eastwards. The country occupied was also called the Danelaw or Danelagh.

Danes' Blood, a common plant of the elder family, deriving its name from the tradition that it originally

grew from the blood of Danes killed in battle.

mnites, the title by which a secret order of Mormons was known, and to whom many serious crimes were attributed.

crines were attributed.

Darian Project was a scheme entered upon at the close of the 17th century by laterson, the Scott financier, for colonising the istimus of Panauna and thereby diverting trade in the direction of Scottand. A large number of Scotta people went out, and much money was sunk in the enterprise, but owing to the deadliness of the clunate and other causes

Darter, a genus of birds of the pelican family, with pointed bill and long serpent-like neck. Two species only are known: one belonging to Africa, the other to America.

to America.

Dastanake, the name of a serpentine lizard of the Aconitas family, noted for the darting manner in which it attacks its prey.

Dasyurus, the name of a carnivorous quadruped, hairy tailed, and of the opossum family, with white spots: confined to Australia and Tasmania.

Datary, a Roman ecclesiastical functionary, who acted for the Pope in all matters relating to the issuing of grants and dispensations; the dater or dispatcher of the Papal bulls.

Data Palm, a native of Northern Africa, where it is

Date Palm, a native of Northern Africa, where it is grown in great profusion. It is also known in Southern Europe and Western Asia to some smal extent, It grows from 6 to 80 ft. high, and its fruit is of great value as a food. From the leaves the Africans make roofs for their huts; ropes are

the Arricans make roofs for their huts; ropes are made from the fibrous parts of the stalks; and the sap furnishes a stimulating beverage.

Bauberlie, a substance of a yellow colour found in earthy meases in Chili, and a bismuth oxychlordae. Named after Daubrée, the French mineralogist.

Daubhin, the title borne by eldest sons of the Kings of France from 1340 to the Revolution of 1830.

Dauw, an animal of the zebra order, with black and white stripings. A native of Africa and usually known as Burchell's zebra.

Dawanport, the name given to a small ornamental writing desk much in vogue about the middle of the

spin century.

"Bayy Jones," a nautical term of a humorous turn supposed to apply to the spirit of the sea; thus, it is a common saying among sallors, when a person dies at sea, that he is committed to "Davy Jones's locker.

position above the horizon each day. The exact measure of time covered by a day is 23 hours, 50 minutes and 5 seconds. The Babylomans counted their day from sunrise to sunrise, the Hebrews and Athenians from sunset to sunset, and the Romans from midnight to midnight.

Day Nurseries are modern institutions, the result of a movement for the protection of the young children of working people, and consist of Decker where infints are nursed and cared for while their mothers are at work. The movement was originated

Deacon, the name of an ecclesiastical official, who assists in some of the smaller ministerial duties in church or chapel; and in the Anglican Church ranks

contrch or chapter; and in the sage and priest.

Dead Languages, are such as the ancient Greek and Roman tongues, which are no longer spoken but are preserved in literature.

Dead-Oll, the name given to oily products obtained from the distillation of coal tar, and heavier than water, such as naphthaline, crossote, etc.

Deal, the name given to planks of fir tree wood of Northern Europe, 9 inches wide and three inches thick, fifty cubic feet of which form a load, and 100 superfical feet a square. An American deal, it should be noted, is 12 inches broad and 24 inches thick, and of the uniform length of 12 feet.

Dean, a Church of England dignitary, ranking next below a bishop, and the head of the Chapter of a

catiledal.

Dean of Faculty, a Scottish law officer appointed to preside over the Faculty of Advocates.

Dean of Guild, the name given, in the days of guilds, to their chief officer, and now only used to designate the head of a royal burgh or merchant company, who has the superintendence of buildings.

Dear Dear Forests. Some of the Scottish deer forests are of enormous extent and fetch very high rentals. The orest of Mar alone, with its 80,000 acros, is almost as large as two of the counties of Scotland; Blackmount covers nearly as much ground as the county of Loudon; Reay stretches over a hundred square miles; and there are fourteen other forests, ranging from 2000 to 41,000 acres. over a hundred square miles; and there are fourteen other forests, ranging from 9,000 to 9,000 acres. In all, these Scottish forests, which number over 150, have an area four times as large as Westmorland, and yield a rental revenue of about half a million pounds sterling. For a single forest, Ivercauld, a rent of £5,000 has been asked, and paid; Invermark would not be considered dear at £4,000; Glenquoich at £3,000; and Mamore at £3,500 The county of Perth has a yearly shooting value of £15,000, and the shires of Ross, Argyli, Abordeen, and Inverses have a sporting revenue averaging and Inverness have a sporting revenue averaging little short of six figures appece. So enormous has been the growth in rental value that Coignafearn, which was let a couple of generations ago for £30,

which was let a couple of generations ago for £30, found a renant not long since for £3,000.

Death's Head Moth, a large insect, not uncommon in England, and remarkable because of its having on its thorax the outlined semblance of a human skull, It enits a peculiar, mournful sound when startled.

Death-watch. The so-called death-watch, with its mysterious ticking in the night time, is due to nothing more scrous than the furniture-beetle. The larva of this invect burrows in the furniture, making the pusholes which are often to be seen in old furniture. It is three years in its nume condition, and at the second of the second o ture. It is three years in its pupe condition, and at last becomes a little brown insect with a great talent for shamming dead, so that it is not very much observed. These beetles often strike the wood of observed. These beenes diten strike the wood of their galleries with their heads, and so produce a ticking sound which is a call to the mate. The ticking is most frequent in the summer months, but in warmed rooms it may be heard at any time.

Debenture, a document or certificate signed by a public officer, corporation or company, acknowledging indebtedness for money lent and guaranteeing

ing indepteups for money eart and guaranteeing repayment with interest.

Debuscope, a modification of the kaleidoscope, invented by M. Debus, a French optician, and consisting of two highly polished silvered plates, set at an angle of 70° with each other before any object to

as an angle of 70° with each other before any object to obtain reflected variations of design.

Doadda, the number 10, or, as usually understood, a period of 10 years.

Doadda, the Ten Commandments, which, as related in Exodus, were given by God to Moses on Mount Sinai, and contained on two stone tablets.

Docassed wife's Sister's Marriage Mot way passed in 1907. This measure was agitated for many years previously, making a regular annual appearance in the British Parlament, usually passing the Commons, but being rejected by the Lords, the bishops being its real stumbling-block. The King, when Prince of Wales, voted in favour of the Bill camore than one occasion. Marriages with sisters of deceased wives are legal in many countries, and several of our own colciles, including Canada, Australia and Ceylon.

December, the twelfth month of the year, and the telrih of the old Latin calendar. The Anglo-Saxon called it Mid-winter monath and Yule monath. Decembers were a special body of ten Roman magistrates, invested with extensive governing

The first decemvirs were elected in

Deciduous Trees are such as shed their leaves, or "fall" at maturity, or at certaining assons, as distinguished from evergreens or perminent foliaged s or shrubs.

Decimal Eystem is based on a unit of zo, and for purposes of calculation is much simpler than the English system. It is in operation in France and other European countries, also in the United States of America.

of America.

Dedination was a term originally applied to the punishment of putting to death of every tenth person, but in modern times is used in its broader significance to indicate any form of wholesale slaughter.

Dock, the floor of a ship, and in large vessels comprehending the first or lower deck, middle deck, and main deck, which is the uppermost, except the reserved elevated part known as the quarter-deck.

Declaration of Indopendence was an Act by which the first American Congress, on July 4th, 1776, declared the American Congress, on July 4th, 1776, declared the American colonies to be independent of Great Britain.

Decolaration of Rights. (See fill of Rights.)

Decolaration is the act of beheading or decapitation, as a form of punishment. Decollation was very generally resorted to in medural times, but it is confined mainly to France at the present day, the confined mainly to France at the present day, the

guillotine being the beheading instrument.

Decomposition is the act of dismuterrating the elements of any compound substance. Oxygen and hydrogen are obtained by the decomposition of water, but these substances themselves cannot be

decomposed.

Decree is a special edict or regulation issued by a supreme or governing power. The judgment of a superior court is also called a decree.

Decree Wisi, a law term used in regard to a Divorce Court decree which annuls a marriage, if at the end of six months nothing arises to interfere with the decision, whereupon it is made absolute, and the

parties are free.

Dedication implies the consecration to sacred purposes of any building or ground, and has also a more general application to the setting apart of any building, institution, or enterprise to a special use. The term also attacles to the inscription by an author of any book or work to a patron of friend as a mark of esteem

mark of esteem.

Deamstar, a chief judge of the Isle of Man.

Dear are hoofed, horned, or antiered runnants very widely distributed, and including many species. No true deer are found in South Africa or Australia.

Defender of the Faith, a title given to all English monarchs from the time of, and beginning with, Henry VIII. Originally conferred by Pope Leo X, then withdrawn, and afterwards re-conferred by Parlianent. by Parliament.

by Parliament.

Deliam upholds the theory that there is a personal God, but rejects revelation and the doctrines of the Cinstain religion.

Delia warea, a tribe of Red Indians once very numerous in Fhiladelphia, on the banks of the river from which they take their name, but now settled for the most part in Arkansax.

Delia warea, a kind of enamelled pottery first made at Delft in Holland in the 1sth century.

Deliqueacence, the process of hquefaction or dissolving by the absorption of moisture from the atmosphere. For instance, chronic acid crystals on exposure to the air quickly deliquesce.

Delphinus, the scientific name for the dolphin family, and consisting of numerous species. Each jaw contains from 80 to 90 small pointed teeth.

jaw contains from so to go small pointed teeth.

Delta, a triangular tract of land between diverging

Dalta, a triangular tract of land hetween diverging branches of a river at its mouth, and so called from its general resemblance to the Greek letter a delta. The hest known examples are the deltas of the Nile, the Ganges, the Nilger, and the Mississippi.

Dalta metal, a copper and zinc alloy, with a small portion of iron added, possessing almost the strength of Iron and non-nustable. Has been widely adopted for industrial purposes.

Daltage, the overwhelming of a country by water, a

term commonly applied to the story of the world-wish deluge contained in the Bible, in which Noal and the Ark figure. A similar tradition lingers in the mythologies of all the ancient nations. De Lunatico Inquirendo, the name for a writ sanctioning an inquiry into the condition of mind of a supposed insane person, with power to secure a due administration of his affairs if shown to be insane. Demogracy is the condition of direct annular

due administration of his affairs it shown to be insane.

Democracy is the condition of direct popular government—" by the people for the people "—the executive powers being vested in representatives elected by the people. A republic is in theory the most perfect form of democracy, as in the United States, France, Switzerland, Argentina, Brazil, Mexico, and other States, though in practical working the democracit does is to some extent lost sight of in some of these, and something akin to dictatorship prevails. In Great Britain the Government is a democracy in so far as the House of Commons is concerned, and aristocratic domination is supposed to be held in check by the power of popular representation.

Demoiselle, the popular name of the Numidian

Demoiselle, the popular name of the Numidian crane, one of the largest of wading birds.

Denarius, a silver coin of ancient Rome, worth about 7td. English, first coined 250 B.C.

Dendiculue, a member of the moulding orname ba-tion of Ionic and also Corinthian entablatures, over the frieze and under the corona, but properly speak-ing, because of its projection, part of the latter. It consists of a row of relieved rectangular blocks, at regular intervals, resembling teeth, hence the name,

Dendrite, any stone or mineral on which appears natural tracery resembling trees, leaves, or flowers, the result of the action of the hydrous caide of

manganese.

Denier, an old French coin, and the chief silver coin

Denter, an old French coin, and the chief silver coin of Europe during the medieval period.

Density, a term by which we assess the quantity of matter in any given bulk. As Clerk Maxwell puts it, "the quantity of matter per unit of space is defined as the density of the mass filling that space."

The density of gold is 10°, 3, silver 10°5, copper 8°9, earth 5°6, diamond 3°5, air roots].

Dental, pertaining to the teeth; as dental forceps, dental cayive, dental pulp, etc.

Dental, pertaining to the teeth; as dental forceps, dental cavity, dental pulp, etc.
Dentex, a kind of fish common in the Mediterranean, possessing conic teeth and scalp cheeks.
Deodand, the name given in old English law to a personal chattel which had been the cause of an individual's death. This chattel—it might be a cart that had no over and killed a man—was declared a deodand and forfeited to the king to be applied to religious uses. Deodands were abolished in 1846.
Deodan, a conferous tree of the cedar order, largely errows in Ludia.

grown in India.

Department, a division of a country or province, applied in France to the chief administrative territories, which again are subdivided into arrondise-ments. In the work of British government, each separate division is named a department. Thus we have the Home Department, the War Department, the Colonial, Indian and other Departments.

Depas, a double-handled drinking-cup ancient Greece, and referred to by Homer.

ancient Greece, and referred to by Homer.

De Profundis (out of the depths), the first two
words of the Latin version of the 174th Psalm, and
commonly used to designate this psalm.

Derby, the leading English horse race, run on the
h-125cm course on the last Wednesday in May or the
first Wednesday in June. Originated in 1780 by the
twelfth Earl of Derby, carries with it a stake of about
£6,000, and is competed for by the best three-yearolds of the time. Among recent owners of Derby
winners may be mentioned the King, Lord Rosebery, Sir J. Miller, Mr. Llond de Rothschild, and
Mr. Richard Croker, the former "Tammany" chief
of New York. of New York.

Derham, an ancient Arabian silver coin, still current

in Easters countries, worth about 3d. English, Barylek, the name of a special jil crane, for lifting and moving heavy weights. It was originally applied to a kind of gallows built by a Tybura hangman called Derrick in the 17th century.

Derwich, a Mahommedan mendicant monk of which there are many varieties, including howling and whirling dervishes. There are over 30 orders of es in all.

Descloiatte, a scarce mineral substance, scientifically described as a vanadate of lead and zinc, found in Argentina and other parts of the American continent, named after Des Cloizeaux, a French

mineralogist. It is olive-green in colour.

Deserts consist of large barren, uninhabited tracts of country, and occur chiefly in hot climates. The of country, and occur chiefly in hot climates. The most famous are those of Sakara, Arabia, and Central Asia (the Steppes). At one time a large unmhabited region beyond the Massissippi was called the Great American Desert, but it is desert no longer, having cities and prosperous farms built upon it.

Desmana, a species of musk rat inhabiting the regions of the Volga and the Don in Russia. It is an expert swimmer and diver, and burrows on the river banks, Desmidiacesa, a kind of microscopic fresh-water alge, unicellular, and often assuming beautiful cham-like forms.

Destitut, a supposed foreordained end, an over-

caam-like forms.

Destiny, a supposed foreordained end, an overmastering force that impels the current of event-to
a sual climar. In ancient times, fate, or destiny,
as a common belief, and regarded as "unshumable,
to destin," as Shakspeare has it.

*** To destin, "as Shakspeare has it.

state as as starsper has it.

State as as screep police employed in collecting the capture of offenders in cases of more than ordinary difficulty. In addition to the official class of detectives, there are numerous detective agencies in the chief cities of the world, and in 1904 some rather startling disclosures were made in the London courts regarding the methods

of some of these agencies.

Determinism, the theory that man's actions are "uniformly determined by motives acting upon his character." The term was first used by Sir William

Hamilton, and does not support fatalism.

Detonating Powders are chemical compositions which explode when heated or suddenly struck.
There are many of these compounds. Amuonia with silver or gold, the chloride and todde of nitrogen, and the full matter of silver and mercury are among the best known detonating compounds.

Deuteronomy, the fifth book of the Pentateuch, purported to have been written by Moses, and containing the statement of the law, but regarded by many modern critics as of a much later period.

Deutzia, a genus of East Indian deciduous flowering shrubs, of the Syringa order. The inner bark of the

shrubs, of the Syringa order. The inner bark of the stems is used in Japan for poultices, and the leaves for polishing purposes. Daylation of the Compass, caused by the counter-attraction of the iron of a ship, is generally corrected by putting magnets near the compass, and by careful watching and calculation
Dayli, the spirit of evil, Satan, Beelzebub, "the tempter," the enemy of God and of good, to whom a varied personality has been given by different religious systems in different ages. Milton has realised the higher spiritual conception of the tempter, Goethe the lower human idea.

Dayli-fish, a strange marine animal of large size

Devil-fish, a strange marine animal or large size and of several species As it is met with in European waters it is called the fishing frog, and the chief American species is the glant ray.

Devil-worship consists in a belief in, and of in-

Devil worship consists in a belief in, and of in-cantations to propitiste, evil spurits. This kind of worship is confined to certain primitive races of Asia. And Africa, and a few Red Indians of North America. Deviceope, an apparatus by which the relation between "the angular velocity of the earth and that of a horizon around the vertical of any place what-

ever" can be ascertained.

Devitrification, the process of rendering glass soft and phable, incidentally depriving it of trans-

parency.

Devolution, a term applied to a political propaganda advanced by the Irish Reform Association, of
which Lord Dunnaven is president, for bringing
about an understanding between the professional,
commercial, and landowning classes of Ireland, and
organising a movement for the decentralisation of

Irish financial administration, and the adoption of a larger measure of self-government. The discussion of this move neat with the Dublin Castle officials in 1903 led to camplications resulting in the resignation of Mr. Wyn am, the Chief Secretary, and his condemnation of Devolution as more objectionable than Home Rule.

between the silurian and the carbonife.ous forma-tions, and is also termed the Old Red Sandstone boundarian

bormation.

Daw is the vapour which collects in small drops on the surfaces of substances by atmospheric condensa-tion, chiefly in the mght time. It is most abundant in hot climates and gathers freely on bodies that are not good conductors of heat, such as grasses, etc.

Dextrin, a white, odourless, viscid substance of the some composition as starch, from which it is ob-timed. It is used as gum, being the material put on the backs of postage stamps and other articles which are required to be made adhesive. It also is

wanth are required to be made adhesive. It sate is utilised in calico printing.

Dhole, the wild dog of the Deccan, of a bright bay colour, and living ou game, which it hunts in packs.

Dhow, a one-masted trading vessel, much in evidence on the east coast of Africa and the Red Sea and formerly employed in the transportation of slaves.

Diacope, a species of fishes of ofthe perch family, prospening a notched operculum and suberculate;

inhabitants of the Indian seas, and often reaching a

mandicance of the indian seas, and other reacting a length of three feet.

Diadem was originally a head ornamient or fillet worn only by royal personages, and from being to plain white material came to be of rich gold embrouderings, and set with precious stones. Now the term is applied to a crown or other head-hadge worn by progress or the head ornament of a progress, which

by royalty, or the head ornament of a peeress, which, however, is more frequently styled a liars. Dieneals, the sign (") placed over the second of two yowels coming together, and indicating that cach is to be pronounced distinct from the other, as each is to be pronounced distinct from the other, as aeraid; also employed to indicate that a vowel, ordinarily silent, must in this case receive proma-ciation, as "Oh, cursed spite"; "My beloved," etc. Diagomater, a form of electroscope for measuring the conducting power of different bedies, having a magnetised needle for an indicator, invented by

Roussean

Dial, or Sun Dial, an instrument for telling the time of day by a shadow thrown on a marked surface.

This was the first form of outdoor clock, and was introduced into Europe from the East. It is made in various forms—horizontal, upright, or inclined.

in various orins—norizontal, uprignt, or inclined.

Dialoct is a form of speech special to a locality or district, and differing from the general literary language of the country. In England these dialocts are numerous, but in all of them some survivals from are numerous, but in all of them some survivals from what was once good old Linghia speech are to be found. From the works of Chancer, Spenser. Shakspeare, and from even later writers, many words are to be read that are obsolete as regards modern therary expression, but are still familiar in dialect idioms. The dialect that has forced itself most into modern iterature is the Scotch, a fact largely due to the compositions in dialect of Burns and other Scottish poets. For the full understanding of the force and meaning of English dialects, Professor Wight's monumental Distingary of Dialects is to be commended.

Dializers is to be commended.

Dializer, a kind of pyroxene, green in colour, and of foliated structure: common in serpentine rocks. Diamagnetism, the phenomens revealed by certain substances which, under magnetic influence and suspended, assume a position showing the longer are at right angles to the magnetic lines of force.

Diamagnetise, ultimately hard, admantine.

Diamagter, a strught linespassing through the centre of a circle or other figure, terminated at both ends by the circumference. In architecture, the diameter of the lower bed of a column, divided into 60 parts, constitutes the scale whereby all the parts of a classical order are measured. classical order are measured.

Diamond (a corruption of adamant) is pure carbon, and the most valued of precious stones, though

before the art of cutting was serfected, diamonds were considered inferior to the suby and emerald. India was in former times the chief diamond country. At the passent day, South Africa yields the largest quantities, and in Brazil and Australia there are many rich diamond mines. Diamonds mostly occur in alluvial deposits. They form the lardest known substance and have a lugh refractive power. The largest diamond ever found is the Cullinan Diamond, which was discovered in the Premier diamond mine, near Pretoria, in South Africa, in January, 1905, and in 1907 the granting of self-government to the Transvani; it weighs 2,000 casults, and is valued at fifteen million sterling. It is three times as large as the largest of the other big diamonds of history. The largest diamonds found previously were:—

samonas tound Drevi	Place of discovery.	Weight in carats.
"Excelsior"	South Africa India	971 (uncut) 280 (cut)
"Regent"	India .	{410 (uncut) {136} (cut)
"Orloff"	India 💣	900 (uncut) 103 (cut)

"Koh-l-noor" India tog (cut)

"Excelsior" was found by Captain Ed. Jorgansen.
In its natural state it was valued at \(\frac{1}{2}\), coop. oo, but purchasers of such gems are not plentiful, so in took it was cut into nine smaller gems. The "Great Mogul" is another famous diamond which has vanished. It weighed 280 carats after being cut, sad in size and shape resembled half an ordinary chickens egg. Its history is romanic. It was seen at the Court of Aurungzebe in 1665 by a French givenslers stolen at the sacking of Delhi in 1739, and broken up The largest cut diamond up to the cutting of the Cullinan was the "Orlofi," which adems the Car's sceptre. It was stolen from an Indian Idot's eye, and sold to Catherine of Russia. It now weights just on 200 carats. The famous "Koh-l-noor" is an Indian stone, and is now the property of Queen Alexandra, to whom it was bequeathed by Queen Victoria. It weighted nearly 200 carats uncut, but by bad cutting was brought down in weight to 173 carats. Other famous diamonds as the "Fitt" (136 carats), the "Florenties" (173 carats), and the "Star of the South" (134 carats).

"Ramond-beettle, a South American beetle of verv 124 CREBES).

Diamond-beetle, a South American beetle of very

Diamond-beets, a South American beets of which posted starkings.

Diama, Honkey, a large African monkey that derives its name from the supposed resemblance of its white frill to the crescent bow of the golders.

Diama, The Palatine monkey of Pennant, Cerce-

its white frill to the crescent bow of the goddens Diana. "The Palatine monkey of Pennant, Cerco-stakesis Diana" The Palatine monkey of Pennant, Cerco-stakesis Diana" Teample at Epheaus. The temple of Epheaus was built after the model of Karnac, and was looked upon as the greatest of the "Seven wonders of the world." Its interior length was seg feet, its breadth 201 feet; its roof was supported by say itchly sculptured pillars, each the life-work of a lang. Originally erected by Ctesishon, it was enlarged and enriched be to very succeeding prince. On the day that Alexander the Great was born. Erostratus tried to destroy it by fire, and he partly succeeded; but the Ephesians rebuilt it, and the world at large contributed to its restoration. Some years later Alexander the Great commanded the mydial at large contributed to its restoration. Some years later Alexander the Great commanded the mydial at large contributed to its restoration. Some years later Alexander the Great commanded the "Alex of Sacrifice." In the Advinn was a second altar, the "Alexander was a third altar, the "Alexander to the penetralia, was a third altar, the "Alex of sweet incense," on which nothing was placed but the richest and most costs perfume. Through the optimized of the status of the mighty gouldess.

Diapasson, the coacord of the first and last tones of an octave, and the fixed rule by which organ pipps and other instrustents are anganged to proper pitch.

Diapar, a figured textile faited, the pattern of which is usuall and is shown in the material, without resorting to colour or difference of the might. Many kinds of

decorative products, treated in the same style, are temed disper work. Diapsporesties are medicines used to induce pers-piration, and thereby increase the action of the digestive organs.

Diaspore, an infusable hydrate of aluminium, almost colourless, and occurring in crystals and foliated masses. A small portion placed in a flame instantly disperses.

Distite, a hard cement compounded of shellac and

Diatomic Acid, an organic acid derived from diatomic alcohol.

Diatonio Scale represents the use of musical tones, intervals, and harmonies without chromatic variation.

Dresum, the name of a group of small sun-birds, with red plumage and short, slender bills, inhabiting the East Indies.

Dies, an ancient geme played with small ivory cubes, each face of which is spotted with black marks tike domlino pieces, and thrown from a box held in the hand, the one who throws the highest number of spors being the wainer. The Lydians played dice.

Dictator, the title given by the ancient Romans to their supreme magnistrates under the republic, in times of great exagency. The term was limited to six months, but while it lasted the Dictator's rule was absolute. Another class of dictator was the Greek Tyrant, and many despotic rulers of more recent times have in effect, if not in name, been dictators. In Paraguay and other South American countries the dile of Dictator has been borne by numerous rulers.

numerous rulers.

Dictionary, an alphabetical list of words, giving their meanings, and in many cases their pronunciation and etymological significance. The earliest tion and etymological significance. The earnest English dictionaries of any pretensions to accuracy and completeness were those of Bullokar (1616) and Cockeran (1623). Dr. Johnson's famous dictionary was published about the middle of the 18th century. Of the 16th and 20th century dictionaries, there are the Standard, the Century, Webster's, Oglive's, Chambers's, Nuttall's, Skett's, and numerous others, and from the encore words of Johnson's day we now and from the 50,000 words of Johnson's day we now have Dictionaries of from 400,000 to 500,000 words. The most elaborate of lenglish dictionaries, however, is the New Fuglish Puttonary, edited by Sir James A. H. Murray, L.L. D., and Mr. Henry Bradley, now in course of publication. In addition to word dictionaries, there are dictionaries of many other kinds-of

arres, there are dictionaries of many other kinds—of medicines, music, biography, teclinical subjects, &c. Didyralium, a supposed element discovered by Mosander, but pronounced by more recent investigators to be a compound of two elementary substances. It is a yellow-inged white metal. The term didyrium is also applied in botany to a genus of minute fings, with double pendium, growing on rotten wood, bark, etc.

Dies Ires (the Day of Wrath), a fimous 13th century Latin hymn, sung at burial services, and taking its place in translated form in the English hymnology.

Dies, an assembly of dignitaries or delegates called together to debate upon and-decide important political or erclesiatical questions. The most famous Diets in history were those of Worms in 1495 and 1521, and the Det of Augsburg of 1520, all of which dealt with matters of religious controversy awakened by the Reformation movement. awakened by the Reformation movement.

Diffusion is the process of mixing two fluids or gases by contact, and takes place by mutual attraction. It is most raind between gases. Liquids diffuse much slower than gases and as it is laid down by what is called Graham's law—"the rates of diffusion of different gases are in the unverse profition to the square roots of their relative densities."

portion to the square roots of their relative densities."

Digit, a finger or toe. In arithmetic any number of one figure is a digit, the mne Arabic numerals being indicated by the fingess in counting on them, as one, two, three, four, five, six, seven, eight, nine.

Dika Bredd, a West African vegetable substance, prepared from the fruit kernel of the Magnifera Gaboniensis, and somewhat resembling cocca, it furnishes a nutritive food to the natives.

Dilemma in logic is an argument which resolves itself into two alternative conclusions, each of which amounts to a denial of the proposition maintained. Hence the term the "horns of the dilemma." The Hence the term the "horns of the dilemma." The often quoted example of a dilemma from Adus Gellinus may be repeated:—" Every woman is fair or ugly; it is not good to marry a fair wife, because she will fift; it is not good to marry an ugly wife, because she will not be attractive; therefore, it is not good to marry at all."

Dilettante a term applied to amateurs in any of the arts or corrects.

arts or sciences.

Dimensions are measured magnitudes and involve the qualities of length, breadth, and thickness. A line has only one dimension, length; a plain surface two, length and breadth; and a solid three, length, breadth, and thickness.

Diminutives are grammatical expressions denoting smallness or littleness, as illustrated in the suffixes, "kin." "ler," "ling."

Dimorphism, the quality of assuming two distinct forms not derivable from each other. For instance, carbon, which is graphite in one form, is the diamond in another. Pasteur demonstrated that dimorphism in another. Pasteur denionstrated that dimorphism most commonly occurs when the two forms are close to the limit of their respective systems.

Jimar, a gold coin of the ancient Arab dynasties, usually of the weight of 6g grains troy. In the British Museum there is un example of a dinar struck in the time of Haroun-al-Raschild.

Dingo, the wild dog of Australia, which partakes largely of the character and aspect of the wolf. It is of a reddish colour with a bushy tail and is very

of a reddish colour with a bushy tail and is very destructive to sliesp.

Dinner, the chief meal of the day. Was in older times partaken of about midday, but the fashionable hour for dinner has undergone much change since then, eight o'clock being now the formal dinner hour in court circles. In the time of George III, it was four o'clock; under George IV, it was six o'clock; then it came to be seven; but Queen Victoria set the example of eight o'clock dinners.

Dinners, an extinct bird of the ostrich order, some of which, judging from the fossil remains which have been unearthed, in New Zealand, must have stood about 14 feet high.

stood about 14 feet high.

Dinosauria, the name of a group of extinct reptiles

of the Mesozoic period, some of which were of immense size—much larger than crocodiles.

Dinotherium, a kind of extinct quadruped of enormous size, the fossil remains of which have been discovered in the Tertiary strata along the Rline and elsewhere. It had a trunk like the elephant, and tusks, and is supposed to have been about 18 feet long.

Diocese, a territory under the pastoral authority of a bishop. The term originated in the time of the Roman Empire, and represented then rather an administrative territory than an ecclesiastical one.

plopside, a variety of pyroxene occurring in prismatic crystals, and having for its bases calcium and magnesium, with some slight addition of iron. It is found in Piedmont.

Diopsis, a genus of insects of the fly family, peculiar for the enormous projection of the sides of the head.

They are natives of the tropics of the Old World.

Dioptage, a scarce copper ore occurring in prismatic emerald green crystals, and composed of silicate of copper; found in Tartary and Nassau, and sometimes styled emerald-malachite.

and sometimes styled emeraid-unalachite.

Dioptrie Bystem, a method of illuminating lighthouses by a central lamp which transmits light through
a series of refractung lenses.

Diorama, a series of speciacular paintings exhibited
in a darkened room with the light thrown on to the
nicture in such a manager of the product of the contract of the cont pictures in such a manner as to produce optical effects that give the appearance of reality. These effects can be varied so as to represent night or day scenes, or scenes of cloud or sunshine, as may be desired. The diorania was the invention of Daguerre and Bouton in 1822, and was first shown in London in 1823.

Diorite, a rock of crystalline structure composed of

feldspar and hornblende, and occurring in associa-

tion with magnetite and apatite. It used to be classed as greenstone.

classed as greenstone.

Diplodocus, a class of extinct manmoth reptiles belonging to Mesozoic times. Fossil rectains of this reptile have been discovered in Colorado and Wyoming, and in 1905 a cast of one of these huge monsters, taken from the original in the Pittsburg Museum, was presented to the British Museum by Mr. Andrew Carnegue and is now to be seen at the Natural History Museum, South Kensington. It has been named the Diplodocus Carnegii, and is \$4 feet in length, having been reconstructed out of four defective skeletous all found in Wyoming. The height to the top of the spines of the dorsal vertebre is nearly 14 feet. Four thousand centuries are supposed to have elapsed since it lived.

Diploma, a certificate of authority signed by the

are supposed to have elapsed since it lived.

Diploma, a certificate of authority signed by the
heads of universities, colleges, or other learned
bodies, conferring upon the recipient some honour,
degree or privilege, and usually adording evidence
of the passing of a properly qualitying examination.

Diplomacy, the practice of official intercou
between nations, as carried on by ambassadors and

other agents of states and governments.

Diplomatics, the science of diplomas, or ancient writings, and the deciphering of them. It is also and

now more commonly) called paleography.

Diptora, an order of insects, the name of which was supplied by Aristotle. Their man characteristic is that they are two-winged, and the common house fly is the best known example. There are said to be 9,000 varieties of these in-excs in Europe alone, including gnats, blow-flies, nio quitos, tsetses, etc.

including gnats, blow-files, no quitos, tstises, etc. Diphthomg, the conjunction of two vowels pronounced in one syllable. What is called a proper diphthong combines the sound of both vowels, as in "boy," "noise," "out," etc., while the improper diphthong only represents the sound one of the vowels, as in "pail," "breach," "juce," etc. Belonging to the latter class are the diphthongs "ie" and "ce," but these are confined to words from the Latin or Greek.

words from the Latin or Greek.

Diptych was a folding two-leaved tablet of woodhory or metal, with polished inner surfaces,
utilised for writing with the style by the ancient
Greeks and Romans. The same term was applied
to the tablets on which the names of persons to be
commemorated were inscribed in the early church. In art any pair of pictures hinged together is styled

a diptych

Directory, a term applied to the executive of the later French Revolution period, and existing from October, 1795, to November oth, 1799, vien Napoleon succeeded in overthrowing it and responses succeeded in overthrowing it and establishing the Consulate of term, as in generuse, signifies a book in which names of restraders, and others in any particular orality or sphere are recorded, such as the London rost Office

Directory, the Directory of Directors, etc. Directors, a hymn or song of mourning and laments " on, which may be music only, or a song only, bushally a combination of masic and words.

Dirk, an ancient Scottish stabbing weapon, dagger-shaped but much longer and heavier. It was usually worn in a scabbard.

Discipline, a specific training in accordance with strict regulations, and applying to religious,

military and civil guidance

Discus, a circular piece of metal or stone about 12 inches in diameter, used in athletic contests by the ancient Greeks and Romans. Throwing the the ancient treeks and konians. Throwing the disrus was a very favourite game, which was deemed worthy of celebration in the famous statue of a Discoloulus of the 5th century, B.C., now preserved amongst the Townley marbles in the British Museum.

Disastablistment is the withdrawing of State support from Clunch oversusation. The activation

support from Church organisation. The agitation for the disestablishment of the Church of England for the discissionment of the Charles of a Cantury or more ago, and was the subject of an annual motion in Parliament, but for some years past the movement has slumbered. The Irish Protestant Church was disestablished in 1856, An agitation

for the disestablishment of the Church in Wales carried on for many years led to the passing of a Bill for this purpose by the House of Commons in 1913-14.

Disk, an Astronomical term denoting the seemingly

Diak, an Astronomical term denoting the securingly flat surface of celestal bodies as seen by the eye. Dispanaing Power was a right claimed by English kings of releasing any of their subjects from oaths and vows on payment of certain indulgence fees, but the Bill of Rights of 1690 also lished this privilege, and since them the Pope las been the only authority clauming to exercise such rights. It was the gross abuse of the disponsing power that led to the Reformation.

Dissenters are those who decline to conform to the uses of the Established Clurch. All Nonconformist bodies, whether Protestant or Papist, are included in the term Dissenters.

in the term Dissenters.

Distaff, the staff of a spinning wheel, being a cleft stick on which wool, cotton or flax was wound for spinning on the spindle. It was held between the left arm and the side. In olden times there was a "Distaff Day," which fell on the day after "Twelfth Day," so named because women were supposed to

resume their distaffs on that day.

Distal, applied to the end of a limb or bone in anatomy, or to an organ is botany, furthest removed

from the point of attachment

Distance is the space between two objects, or between two points of tune, and is calculated by various methods. What is called an accessible distance can be easured by an ordinary linear measure; macces, ide distances are not amenable to this measurement, but are calculated by triangulation. The line of distance is a straight line between the eye and the chief point of the plane; and the mean distance of a planet from the sun is an arithmetical mean between its greatest and least distances.

Distemper, a pigment prepared for a special method

Distemper, a uginent prepared for a special method of painting, and consisting of colours nuxed with a binding medium soluble in water.

Distilach, a term used in practy to indicate a couple of lines or verses constituting a complete idea, and, according to modern usage, rhynning.

Distilacion is the process by which the spirit of a substance is obtained by evaporation and condensation. The process is effected by heating the substance in a still, whereby the liquid becomes a still, whereby the liquid becomes a still of the process in a liquid form. The of title liquids are thus separated from those that are with obstale and from solid matters. Distillation is used in the production of spirituous liquids and the second matters. sed in the production of spirituous liquors and

various essences Ciatinguished Service Order was instituted by Queen Victoria in 188 for rewarding exceptional service in the Army and Navy. 5 badge is a gold cost, with a crown prese ed on one side and the oyal cypher on the obe, each enclosed in a laurel

Ulthyrambus, a Greek lyric composition originally written in honour of Bacchus, but afterwards de veloped in celebration of other gods and heroes, and enerally couched in excessive strains of laudation. inrelies are drugs or agents for aiding the scretion of urine.

wartissement, a short musicai entertamment

which is usually accompanied by dancing.

Diving Bells are bell-shaped mechanical contrivances filled with air in which a diver can sit and trivances filted with air in which a diver can sit and be lowered into any body of water, fresh are being supplied as the air in the apparatus becomes exhausted by means of a communicating flexible pipe. The diving apparatus now mostly used, however, is called the "diving helinet," an apparatus which fits over the head, and reulers the diver free to move about at the bottom of the water in comparative safety.

to move about at the bottom of the water m com-parative safety.

Divorce is a legal dissolution of the marriage tie, and in England may be either complete, or limited—in the old legal term—a mensa of thore (from beard and bed). In the latter category may be included what is termed judicial separation, which does not allow of the separated persons remarying. A wife can obtain divorce on proof that her husband has

been guilty of marital misconduct combined with designior or gross cruelty, while a husband is allowed a divorce on the evidence of his wife's infidelity only. In England over a thousand suits for divorce only. In England over a mousand suits for divorce are instituted each year, but not much more than half of them are successful. In the Courts of Summary Jurisdiction, however, the decrees of judicial separation amount to many thousands.

Dobra, a Portuguese gold con, common in the 18th century, and of the value of about £3 115, 9d.

Dobra, a summary court of any decrees a buseful.

Docket, a summary copy of any decree; a brief list, or libel; derived from dock, to curtail.

Dockers' Strike, in connection with the London

docks, occurred in 1889, and lasted for five weeks, over 16,000 men being directly concerned. Another

over 16,000 men beung directly concerned. Another strike of dockers took place in 1912.

Docks are enclosed water spaces wherein ships rest while being loaded or unloaded, or waiting for cargo. They are of several kinds. The wet dock is simply for loading and unloading; the dry dock, or graving dock, is for overhauling and repairing vessels, and is so constructed that, after a ship has been docked, the water can be drawn off; and the floating dock, a rectampular structure which is sunk beneath a ship a rectangular structure which is sunk beneath a ship and races it. The largest screes of docks in the world are those on the Thames, extending many miles. Those of Liverpool are the next largest. The launching of big vessels of the Lisitainia and Mainreana type renders a large increase of dock accommodation necessary.

Doctor, a term of wide application, applying not only to such as practise medicine, but to doctors in all the learned protessors, thus there are doctors.

all the learned protessions, thus, there are doctors

in Limity, doctors of Laws, doctors of Philosophy, doctors of Music, doctors of Science, etc.

Dodo, an extinct bird of Mauntius which is known to have existed towards the end of the 17th century. It was a clunsy, short-legged bird, unable to fly, and gradually died out because of its inshifty to stand against the animals imported into the island by settlers. Some paintings of the Dodo, made by Dutch artists who actually saw it, give us a very fair idea of this curious bird.

Dog-days date from July 3rd to August xith, covering a period of 40 days, when Sirus, or the dog-star, rises and sets with the sun. The ancient superstition was that this star exercised direct influence

over the canine race.

Doge, the chief magistrate of the Venetian Republic, an oline which existed from the 8th century down to 1707. The Doge was elected for life up to the 16th century, when the term of office was curtailed to two years.

Dogfish, a well-known genus of fishes of the shark family, but considerably smaller than that marine terror, seldom being more than 3 feet in length They are numerous on the Bratish coast, and are the

it encures of the fisheries.

Dog Licences are necessary for all dogs over six months old, and the cost per dog is 75. 6d., the licence dating from January 1st in each year. Dogs for tending sheep or catile, or for leading blind persons, are exempt.

Dogmatics, the science which seeks to describe the

various Christian doctrines. The term is also applied to the inedical theories propounded by Hippo-

to the incurcal meeries proposition of an incurcates.

Dogs belong to the genus Carits, and descend probably from one or more wild species, such as the wolf, fox, jackal, etc. The domestic dog is usually grouped in six classifications: wolf-dogs—uncluding the Borzol, Eskimo, Newfoundland, St. Bernard, sheep-dog, etc.; cattle and watch-dogs—comprising the German boarhound, the deerhound, the Damidog, etc.; the grey-hounds; the hounds—such as the staghound, bloodhound; foxhound, pointer, etc.; the curs—terriers, etc.; and the mastiff breeds—including the various mastiffs, the bull-dog, pug, etc. The sub-divisions of these classifications—which are by no mgans arbitrary—are numerous and familiary capecially when what are called "toy-dogs" come under consideration. The dog does not reach full growth until two years old. It does not perspire, but expels heat through the tongue, which it hangs

out when hot. A litter of puppies is usually from six to eight, and the period of gestation is 63 gays.

Doily, a small napkin or table mat, used to place glasses or earthenware on; also the name of a species of woollen fabric.

of woolen fabric.

Dots, an old Dutch copper coin worth about a farthing; also the name of an old Scotch coin once current, worth from one-eighth to one-twelfth of a penny.

Dole, a musical term indicating that the music has to be rendered softly and sweetly.

Doldrams, a nautical term applied to the portion of the ocean lying near the equator, where variations of weather from caim to squall are so frequent as to render navigation difficult.

Dole, an apportionment of money, food or other

render navigation difficult.

Dole, an apportionment of money, food, or other charitable gifts, distributed according to the terms of the charity. In olden times doles were often associated with monasteries and clurches, and some still survive. There was dole-bread and dole-beer.

Dolarite, a basalit rock of coarse grain in which the components can be differentiated by the eye.

the components can be differentiated by the eye.

Of the greenstone order.

Dollar, the unit of the monetary system of the
United States and Canada, and coined in gold and
silver. Dollars are in use in many other countries,
especially in the Republics of South America,
and the word is doubtless derived originally from
the German thaler. The United States dollar of
two cents is worth about 4s. 2d. in English money.

Dolls are puppets, mostly representing babies, but occasionally puppets of men and women, soldiers, saliors, etc. An immense trade is done in dolls. Dickens has a blind doll-maker (Caleb Plummer) in his Cricket on the Hearth, and he has also the "dolls' dressmaker" in Our Mu'ual Friend,

Dolomite, the name given to a limestone rock containing a large percentage of carbonite of magnesia in crystallised form.

Dolomos, a musical term denoting a sorrowful or plaintive style of playing.

Dolphin, an ocean mammal of the whale family, possessing a long and sharp snout, and of an extremely active disposition. Dolphins abound in most temperate seas, are from 6 to 8 feet long, and swim in shoals.

swim in shoals.

Dome, a large cupola, hemispherical in form, rising over the main building of a cathedral or other prominent structure. The finest existing dome, that of the Pantheon at Rome, is also the oldest, dating from the time of the Emperor Augustus It is 143 feet high, and 144 feet wide. The dome of St. Peter's, in the same city, stands 330 feet high, but its diameter is 39 feet less than that of the Pantheon. The dome of the cathedral at Florence is rea feet in diameter, and are foot block, and the Pantheon. The dome of the cathedral at Florence is 130 feet in diameter and 110 feet high; and the dimensions of St. Paul's, London, are 112 feet diameter and 215 feet high.

Doma Cover, the copper or brass covering to the dome of a locomotive engine, serving to prevent heat

radiation.

radiation.

Domesday Book is the famous register of the lands of England framed by order of William the Conqueror. According to Stone, the name was derived from Dominus dt, the name of the place where the book was deposited in Winchester Cathedral; though by others it is connected with doom in the sense of judgment Its compilation was determined upon in 1084, in order that William might compute what he considered to be due to him in the way of tax from his subjects. William sent_into way of tax from his subjects. William sent into each county commissioners to make survey. They were to inquire the name of each place, the possessor, how many hides of land were in the manor, how many ploughs were in dennesne, how many ordars, how many villeins, how many cottars, how many serving men, how many free tenants, how many tenants in soccage; how much wood, meadow, and pasture; the number of mills and fish ponds; what had been added to or taken away from the what had been added to or taken away from the place; what was the gross value at the time of Edward the Confessor. So minute was the survey that the Saxon chronicler of the time reports "there was not a single hide, nor one vintage of land, nor even, it is shame to tell, though it seemed no shame

to do, an ox, nor a cow, nor a swine was left that was not set down." The record, which did not take in Northumberland, Cumberland, Durham, and parts of Lancashire and Westmorland, was comparts of Lancashire and Westmoriand, was com-pleted on November 15, 1086, and was comprised in two volumes—one a large foilo, the other a quarto. The first is written on 384 double pages of velium in one and the same hand, and in a small, but plain, character, each page having a double column. The quarto is written on 450 pages of vellum, but in a single column, and in a large, fair character. The original is preserved in the Public Record Office.

Dominant. in music, the fifth tone of the modern

DOMINEARS. In music, the first none of the modern scale, and the reciting tone in Gregorian scales.

Dominicans were the mendicant friars of the Middle Ages, the order being established in rare in Languedoc by Dominic de Guzman. They formed a powerful body, being, next to the Franciscans, the most noted. The Jesuits overshadowed them, however, from the 45th century themset below as still be ever, from the 16th century, though they are still to

be found in many countries.

Don, originally a Spanish title of nobility, but now accorded to persons of the higher classes as a courtesy title. At the Finglish universities the term is applied to college Fellows or authorities.

Donatists, an early Christian sect formed in Africa in the 4th century as a protest against the election of Cæcilianus as Bishop of Carthage. They were headed by Donatus, and held that they only represented the true Church. Subjected to many persecutions and repressive acts, they continued to exist up to the 7th century, though the conciliatory measures of St. Augustine in 411 won many Donatists back to the orthodox fold.

Donative, a term in ecclesiastical law signifying a benefice given to a person without formal induction.

Donjon, the keep, or inner tower of a castle, and the strongest and most accure portion of the structure. This was the last refuge of the garrison, and there was usually a prison on the lower floor, hence the name dungeon.

Don Juan, one of the favourite libertine adventurers of iterature, the drama, and opera. Byron took his "old friend Don Juan" for the hero of his longest poem, which remains a fragment in spite of its length. Mozart composed his great opera "Don Giovanni" around the subject.

Donkey, (See Ass.)
Don Culxote, the "knight of the woeful countenance," the here and title of Cervantes' classic story.
Donskoi, a coarse kind of Russian wool employed in the manufacture of certain kinds of worsted fabrics;

instituted from the Bradford trade about 1890.

Doonga, a rough kind of East Indian cance, constructed from a single piece of wood, and carrying a square sail. Used chiefly in salt-collecting around the shallow waters of the Ganges.

Boardo, a small southern constellation around by

Dorado, a small southern constellation named by Bayer, appearing to the north of the Magellanic cloud.

Bayer, appearing to the north of the Magellanic cloud. Dorlans, the name given to an early Greek race who traced their origin to Dorus, father of Ælous. They were at one time very powerful, and held the southern and western parts of Peloponnesus. Dormer, the name of a special kind of window projecting from a sloping roof, and of vertical form Such windows were common to the architecture of the Netherlands, northern France, and Belgium from the tath century, and form picturesque features of general architecture.

or general architecture.

Dormouse, a small, squirrel-like rodent widely distributed throughout Europe and Asia, and living
mainly on fruit and nuts. It is of nocturnal habits,
and sleeps through the winter.

Dort. Synod of, was convened in 1618-19, and resulted in the adoption of Calvinism as the Reformed religion, and the condemnation of the teachings of Arminius

Dory, John, a species of mackerel abounding in European seas, and a good table fish. The name wines from the French Jaune Dore, yellow and

Dot, a French term indicating the property which a wife brings to her husband on marriage, and is usually settled on the woman, being her separate

property, though the income from it may go towards the general household expenses.

Desteral, a bird of the plower family, appearing in the spring and autumn in large numbers in the higher latitudes of Europe, and crymon in the mountain regions of Scotlaud.

Double-antendra, a corruption of the French phrase "double entente," and used in English to indicate a word or sentence of indelicate double enter.

__aning.
Doubles, a body garment worn by men from the 15th to the 17th century: at some periods with skirts and belt, at others padded at the hips and in the sleeves. In their later form, under the Stuarts, doublets were

made without sleeves and formed a sort of vest.

Dover, Tranty of, the secret compact entered into between Charles II. and Louis XIV., whereby Charles practically made himself the tool of France

for an annual allowance of 200,000.

Downer, the share allowed by law to a widow out owner, the share allowed by law to a widow out of the real estate of her deceased husband, if he dies without having made other disposition in her favour. There are many ways of barring dower, and though at common law the widow's dower amounts to one-third of the husband's real property. it is seldom that it is left open for such a claim to be substantiated in its entirety.

substantiated in its entirety.

Drachm (or Drachma), the name of the chief silver com used by the ancient Greeks and worth about nod. of English money. It is also—in the first form—a term used in English apothecaries weight, representing the eighth part of an ounce, and in avoidupous weight equaling the sixteenth part of an ounce.

Draco, the name of one of the northern constellations the Dragon, but difficult to observe because of its containing no star of the first magnitude.

Dragoman, an oriental term used to designate a guide or interpreter. In some regions it is not considered safe to travel without an attendant of this kind. They often assume larger responsibilities, however, and contract for the organisation of caravans, and the carrying out of tours.

caravans, and the carrying out of tours.

Dragon, a fabulous monster common to mythologies and fairy lore in all countries, and generally represented as a sort of winged reputile, with fiery eyes and breath of flame. A dragon guarded the garden of the Hespendes; in the New Testament there is mention of the "dragon, that old screent, which is the devil"; St George, England's patron saint, is supposed to have overcome the dragon; and mediaval legend abounds in dragons. In headley it has also a construction place, and in heraldry it has also a conspicuous place; and in China is the imperial emblem

Dragonade, the term given to the series of persecutions of Huguenors in France in the reign of Louis XIV., dragoons being chiefly employed in the work. Since then the term has been used in reference to any

onslaught on the people by soldiers.

Dragonet, the name of a genus of fishes of the Lattionymus family, beautifully coloured, and about a foot in length. They are common on the British coast and in the Mediterranean.

brish colls and in the meantermones.

Pracion Fly, the common name of a well-known class of insects having two pairs of membraneous wings, and often of very brilliant colours. They are swift of flight and may be seen hovering over sheets of water in the sunshine all through the summer.

or water in the sunsinic at through the summer.

Dragon's Blood, a dark red revinous substance obtained from the fruit of a Malay palm, and possessing medicinal virtues which are highly valued for dental and other purposes. It is also employed as a colouring material.

goons, a mounted military force dating from the

Dragoons, a mounted mintary force dating from the ryth century, and at first serving alternately as highrity and cavally as needed. They are now classed as heavy or light dragoons, and are among our regular cavalry troops.

Drama, a composition in verse, or prose, or both, with characters and a succession of scenes, representing some story of human or supernatural action. Thespis and his car give us the first crude form of the drama; then we have the virile developments shown in the Greek drama, with its two distinctive branches, Tragedy and Comedy. After

the classic days of Greece and Rome, the drama lost much of its power, and in the miracle plays and "mo@hities" of the Middle Ages we find little of real dramatic force. In England there was the splendid dramatic revival which gave us Shakspeare, Marlowe, and the other famous Elizabethans. The subsequent distinct English dramatic periods are those of the Restoration, noted for its heentiousness, and the Georgian, in which Goldsmith. Colman, Sheridan, and other dramatists took part. In more recent times the drama has undergone notable recent times the drami has undergone notable developments, passing from the poetic drama to opera bouffe, from opera bouffe to Gilbert-Sullivan opera and musical comedy, and so on through many rammications, with a later tendency to problem and sexual subjects which it is difficult to characterise.

Seamatic Unities, as prescribed in ancient times, comprise Time, Place, and Action.

Draughts, a game played with dark and light pieces on a chequered board. See Fears' Dictionary of Comments of the Comment of the Co Storts and Pastimes

Drawbridge, a bridge that can be lifted up so that no passage can be made across it. It was a usual feature of a fortified castle in the Middle Ages, and reather of a formed castle in the minnie Ages, and was raised or lowered by chains and levers. It spanned the fosse, and on the approach of an attacking party was raised and formed a special barricade to the gate. Modern drawbridges are such a street of the party o

raised to allow of the passage of locats up and down a river or estuary.

Dreams are ideas and images that pass through the mind during sleep. They are sometimes the outcome of waking thought and action, but appear in such a distorted and fantastic form as to have little semblance to what is real. Still, so matter how strange the farters and incidents of a dream may be, one is never surprised thereat. Many supersitions have gathered round dreams, especially in olden times, when they were submitted to professors of the occult for interpretasubmitted to professors of the occult for interpreta-tion. Dream books are published even to-day, professing to show what dreaming of certain things portends. There is the old prover that "dreams go by contraries," which is sufficient for many people. "Nightmare" is a kind of dream usually traceable to indigestion, and often assumes frightful forms.

Dredging machine, an apparatus employed in collecting mud and silt from the bottoms of harbours, rivers, canals, etc. They are usually flat-bottomed. rivers, canais, etc. They are usually nat-bottomed, carrying a ciane, and an endless chain of buckets, which descend into the water, collect the mud, etc., bring it up, and discharge it into the flat alongside the machine. Steam dredges, of which there are many forms, are now generally in use.

Drease cane, we are told, into voque in the Garden of Eden, though it must be admitted that it did not make much of a show at that early period. Its

or zoen, though it must be admitted that it did not make much of a show at that early period. Its first object was utility. Gradually a desire to make it decorative sprang up, and fashious began to be set. From that time, dress has run its course through the ages with many variations and eccentricities, according to chinate, whim, and need, and at the present time is more diversified and more generally could be agree.

and at the present time is more diversined and move generally costly than ever.

Dripstone, a projecting stone or moulding over a doorway, for carrying of dripping rainwater.

Drohaky, a light, four-wheeled, topiess vehicle, much used in Russia.

Dross, the name generally applied to the refuse of molten metal, composed chiefly of slag, scales, and

Drought, a period of dry weather, is a normal and recurring condition in many warm climates, and is frequently provided against by irrigation. In Great Britain droughts do not often occur. Even in a dry summer a drought of a month would be deemed unusual. In 1812, there was a drought in

deemed unusual. In 1802, there was a grought in England of 49 days, the longest on record. Drugget, a cheap kind of carpeting made of mixed materials, but usually containing a fair proportion of woollen 8 he. It has often a printed design on the upper surface, but is unde also sometimes of one colour. The tenn is likewise applied to a protective covering used for carpets, etc.

Druggist, a dealer in drugs; the business is usually nowadays combined with that of an apothecary, who

compounds and prepares the drugs he sells. C Druids were priests of the old Celtic races of Gaul Britain, and Ireland. Their religion was made up of nature worship, symbolism, and a belief in special decities. The Druids were greatly venerated by the people, and, in addition to matters of religion, they were entrusted with the administration of justice. They regarded the oak as the symbol of the Supreme aney regardent ne oak as the symbol of the Supreme Being, and their rites were usually performed in oak groves, and the mistletoe that grew on the oak was held to represent man! dependence upon God. Human sacrifices were part of their religion, and the serpent was one of their objects of worship. At Stonehenge in Wiltshire, Avebury, Chipping Norton, Keswick, and other places, the circles of huge stones which have been preserved from primitive times are regarded as Druidical remains, but this rests upon tradition rather than proof.

Drum, a percussive musical instrument, consisting of a hollow circular body of wood or metal, the ends of a hollow circular body of wood or metal, the ends of which are closed in with tightly-stretched pieces of membrane, which emit more or less vibrant sounds when struck with sticks. Druns are usually of three kinds—the bass drum, held horizontally and beaten at both ends; the side drum, slung to the £de, and played on the uppermost end with a pair of wooden drum-sticks; and the kettle-drum, the shell of which is of copper or brass, and the head formed for parchment. Kettle-drums are mainly used in cavalry hands in pairs.

Purpa is the general wientific term for stone fruit.

Drupe is the general scientific term for stone fruit.

The stone forms the inner part of the fruit, and
encloses a seed or kernel, the latter being liberated after setting in the ground by the decomposition of

Drury Lane Theatre is the oldest London play-house. There was a theatre of the name during the whole of the Stuart period. This was the house that whose of the schart period. I fill was the house that was destroyed by fire in 1671. The next thic-tire on the site was built by Wren. This was also burned down in 1809. The present house dates from 1822. Sheridan was its manager for a long time.

Druses, a half-Christianned, Syman religious sect living among the mountains of Lebanon, herce and warke in nature. A great massacre of Druse by Marchites and Milhomedium concurred in 1860.

warske in nature. A great massers of Druses by Maronites and Mahonimedans occurred in 1860.

Dryoopus, a large blackbird of the woodpecker family, having a scatlet crost, and inhabiting Northern Europe.

Dry-rot is caused in timber by a fungoid growth, and occurs chiefly in damp situations. The most effective *reatment is saturation with creosote. Dry

wood always escapes dry-rot.

Daaltsm is a term used both in religion and in philosophy. In religion it involves the doctrine of two distinct principles, one good, the other evil, as the controlling influences; in philosophy it opposes

materialism and idealism, and missis that spirit and matter are separate substances.

Dublin University was founded by Queen Elizabeth in 1901, as the College of the Holy and Undivided Trinity. There are over 800 undergraduates, and about 200 graduates in the pro-fessional schools.

Ducat, a coin formerly widely current on the Continent, first coined in Apulia in the 12th century. A gold ducat was worth about 9s. of our money, and a silver ducat half that sum.

Ducatoon, a large silver coin once current in the republic of Venice, and worth about 6s. English. Duchess, the wife or widow of a duke, or the lady who has in her own right control or sovereignty in a duchy.

Duck, a bird of the Analidæ family, widespread and of many species, the Mallard or Wild Duck being

of many species, the Mallard or Wild Duck being regarded as the common ancestor. See Pear's Dictionary of Poultry.

Duck-Bill, a strange fur-covered mammal inhabiting Australia and Tasmania, possessing a Call like a duck and a body resembling that of an otter. Called also the duck-mole and the duck-billed platy pus.

Duck-Hawk, the common name of the moor-buzzard. In America the peregrine falcon bears this name.

Ducking-stool or Cucking-Stool, an old English Ducking-stool or Gucking-Stool, and dengish matrument of pumshment, consisting of a chair suspended by a pole over a sheet of water. It was used for 'common scolds," the virigo being tied in the chair and dipped in the water. One was used at Leoninster as recently as 1800. The Domesday Book has a reference to the ducking-stone.

Ductility is a property possessed by most metals which renders them capable of being stretched without breaking. Gold is the most, and lead the least ductile of metals, the order being gold silver.

least, ductile of metals, the order being gold, silver, plathnum, iron, copper, palladium, aluminium, zinc, tin, lend. In animated nature the spider and the silkworm, with their elastic secretions, are the most

noted examples of ductility.

noted examples of ductility.

Duelling had its origin in France in the so-called days of chivalry, and lingers there still in a more or less serious fashion. It existed in England through medieval times, and down to the days of George III.

In the German army there are frequent duels of a kind, but in no country at the present time are such encounters indulged in, except on rare occasions, with intent to kill. In Great Britain and America duels are now looked imm as children or foolby methods are now looked upon as childish or foolish methods are now looked upon as childish or foolish methods of settling disputes, and are an offence against the law. The Duke of Wellmuton fought a duel with Lord Winchilsen in 1869. Before then, Castlereagh, Pitt, Sheridan, Fox and Canning had all taken part in duels. A duel, it will be remembered, is a chief incident in "The Rivals," An ancestor of Lord Byron's fought and killed his neighbour, Mr. Chaworth, in a duel in a room of Newstead Abliev. Abbey.

Duet, a musical composition for two voices or two players, and, in the case of the planoforte, can be

performed on one instrument,

Dake, the highest rank in the British peerage next to that of a royal prince. Fdward I., Black Prince, was the first English Duke, being created Duke of Comwall in 137, since which time all Princes of Wates have held that title.

Wales have held that title,

Dukeries, a range of English woodland and park
country, manly in Nottinghamshire, comprising the
adjacent demesnes of several English dukes and
nobles. The Dukeries stretches in the vicinage of
Sherwood Forest, and the principal estates included
are those of Welbeck Abbey, Clumber Park,
Worksop Manor, and Thoresby Hall,

Dukhobopfeli, a Russian sect founded in the 18th
century by Procope Loupkin, and still numbering
many thousand followers. They deny the divinity
of Christ, reject rites, ceremonies and images, and
give a mystical interpretation to the Bible. The

sect was banished to the Caucasus in 1841, and in later years the Russian authorities have dealt severely with them, Some 7,000 of them settled in Canada In 1899.

Dulcimer, an ancient stringed musical instrument.
The strings or wires, which are tuned to scale and consist of from two to three octaves, are stretched across a wooden box, and are played upon with light cork-headed hamners

Duise, a crimson-coloured seaweed, eaten as food in Scotland and New England, and in Kamschatka utilised for making a fermented liquor. crimson-coloured

Duma, the Russian National Parliament, started on popular lines in 1906, and reconstructed in 1907.

Dunciad, Pope's famous satire in verse, in which he replied to the attacks of his enemies, and denounced the critics and poetasters with scathing effect.

Dunes are hills of loose sand which form on the sea coasts. In some instances they have aggregated at the mouth of an estuary, and, remaining fixed, have been the cause of the estuary being blocked against

Duodecimals, a system of arithmetic enabling the number of feet or inches in a rectangular surface to be worked out by a calculation of twelfths. It is also called "cross multiplication."

Duodecimo, a slicet of paper folded into twelve leaves, written " remo."

Ducdenum, the first portion of the small intestine, connecting with the stomach, and receiving the hepatic and pancreatic secretions.

Dura Mater, the anatomical name for the outer membrane of the brain and spinal cord.

Duramen, the hardened inner part of the wood of

large trees.

Durbar, an Indian official reception, held by either purbar, an Indian official reception, held by either the King-Emperor, the Viceroy or a native Prince. The most important durbars of recent times have been those held in 1877 at Delhi when Queen Victoria was proclaimed Empress of India, the one held in 1903, when King Edward VII. was proclaimed, and that of 1917, the most imagnificent of all, when the coronation of his present Majesty was celebrated with great splendour, and the removal of the capital from Calcutta to Delhi, and other great concessions

were proclaimed.

Durham University, founded in 1822, comprises
University College, Bishop Hatfield's Hall, Durham
College of Medicine and the Durham College of

Science, Newcastle,

Durian, a tail tree common in the Malay Peninsula, cultivated for its edible pulpous fruit, which is largely eaten by the natives. It possesses a fextid odour, and is sometimes in consequence called the "Civet

durian

durian."

Dwarfs are persons of very diminutive size, of which many notable examples are recorded in history. They are generally regarded as curosities, and either find their way into the service of kings—nobles, or are exhibited for profit. Stanley repo 'ed a tribe of dwarfs in Central Africa. Geoffrey Hudson, Charles I's dwarf, was only is incluss high at 30 years old. The smallest of modera dwarfs were "General Mite," or inches, and "Tom Thumb," or inches

Lyaks, the native race of Borneo.

Dyaks tiffs are of numerous kinds, and have been

Dyestuffs are of numerous kinds, and have been Dyastuffs are of numerous kinds, and have been greatly extended in modern times by chemical discoveries. They include coclinical, indigo, log-wood, madder, fustic, and the various anime matters now forming a great feature of dyang.

Dyke, the term applied to masses of igneous rock which have flowed into grooves of strata or become infused therewith; the word also signifies, in alternative usage, a sea will and an open frami.

Dynames usage, as cas will and an open frami, and the amount of coal and water used on a journey.

Dynamica deals with natural force, either in motion or at rest, describing their positions, velocities, and constitution.

velocities, and constitution.

Dynamism, Leibnitz's doctrine that all substances in Nature involve force.

Dynamite, a powerful explosive whose chief element is introglycerine. It was discovered by Nobel in 1807, and has a disruptive force of about

eight times that of gunpowder.

Dynamo, an electric machine consisting of electromagnets, between the poles of which is an armature of coils of insulated copper wire, which is made to revolve by mechanical power, thus producing the electric current.

Dynasty, a succession of monarchs of the same family, as the Carlovingian dynasty, the Bourbon dynasty, the Plantagenet dynasty, the Hanoverian dynasty, etc.

Dytisons, the name of a large and common water-bottle, a voracious feeder on larves, tadpoles, and a

bedue, a voracious recuer on larve, tadpoies, and a typical amphibian.

Dzigetal, the name of the wild ass of Asia, referred to in the book of Job, and found in herds on the steppes of Central Asia; related to the onager.

Eagle, a large diurnal, raptorial bird of the Falconidæ family, having some nine or ten species. Including the Golden, the Russian, the Spotted, the Impens, and the Bald Engles. Engles are fairly common in Europe. Asia, and Africa, but only the Golden Engle is found in America. Hagle, a gen-dollar gold coin of the United States.

There is also a double-eagle of 20 dollars.

Eagled ood, a name given to A loczylon agallochum, a fragrant Asiatic wood yielding a resinous gum from which certain medicaments are made. It is also used for incense, and a cordial is concected from it.

Bar, the organ of hearing, comprises in mammals, the external ear, containing the punia and auditory meatus; the middle ear, containing the drum or tympanum; and the internal ear, through which the sound vibrations are transmitted to the brain.

Ear-ring, a very ancient form of personal adorn-ment worn by both sexes in Oriental nations. In Anglo-Saxon times ear-rings were worn in Britain, but from the 10th to the 15th century were out of fashion. In Elizabethan days they were revived, and have since continued to be used, more or less. In gave since continued to be used, more or iess. In early Victoria, days they were common, then they fell out of fashion again; but there has been a revival of them to some extent in recent years.

Barl, a British title of noblity of the third rank, duke and marquis coming first and second. The title dates from Saxon times, and until 1337 ranked highest is our negative.

in our peerage.

in our peerage.

Barl-Marghal, an office hereditary in the family of
the Dukes of Norfolk, the "pemier earls of
England," whose duty is to direct all great ceremones of State, coronations, and so forth. Heis
also head of the College of Arms.

Barly English Architecture is the pointed
style, with long lancet-headed windows, and came
between the Nammawith blevous coursel specifical process.

between the Norman and the Decorated periods. It continued through the 12th and 13th centuries.

Earth, our habitable globe, is the third of the planets Barth, our habitable globe, is the third of the planets of the solar system in order from the Sun, and revolves upon its axis in one sidereal day, the whole earth revolving around the sun in an ellipse in one year. The distance of the earth from the sun is 93,000,000 miles. The shape of the earth is that of an oblate spheroid, its axes measuring 7,050 miles and 1,041 yards, and 7,809 stitute miles and 1,042 yards, respectively. Two-thirds of the earth's surface is covered with water. It has only one satellite the moon.

satellite, the moon,

satellite, the moon,

The term comprises objects or

though baked or fired Barthen ware. The term comprises objects or utensils composed of non-translucent, baked or fired clay, and may be either unglazed or enamelled. The word is frequently employed to designate only

The word is frequently employed to designate only
the coarser kinds of pottery.

Earth-Nut is a class of plant of low growth, with a
bulbous edible root, signity aromatic.

Earthquake, a violent disturbance of the earth's
action. Earthquakes are frequent in lost countries,
more particularly in South America, but they occasionally occur in colder regions, though only in a mild form, and are not unknown in England. An earthquake shock has an undulating motion, varying in duration, sometimes lasting only a few seconds, at in duration, sometimes lasting only a tew sections, and other times continuing in a series of shocks for a considerable time. There was a destructive earthquake in San Francisco in 1966. The most serious earthquake of modern times was that of Lisbon in 1755, in which 50,000 people lost their lives. Tropical and sub-tropical countries are rargly long free from seismic disturbance, but British possessions have been fortunate in this respect on the whole, though in January, 1967. Haniaca suffered severely, and

in January, 1907, Januara suffered severely, and particularly the capital, Kingston.

Barthworm, of which there are several species, has a cylindrical body, tapering at both ends, and segmented into tings. It moves by contraction of its rings, aided by retractive bristles; is eyeless, but has a mouth, guilet and stomach. Earthworms exist in immense numbers, and perform an important part in the scheme of nature by loosening the soil and rendering it more anienable to tillage. They also form a valuable food for birds and many mammals,

torm a valuable bood for birds and many mammans, and are unequalled as bast for certain kinds of fish. Barwig, a genus of insects of the cockroach family, possessing two pairs of wings, and and forceps. It is of noctivinal habits, lives on vegetable matter, and hides by day under stones or bark. The old belief that it deliberately creeps into people's ears a stogether unfounded.

Easement, a legal term applied to g privilege enjoyed by any one over another's property, the most familiar example being the right of way & Easter, the annual Church festival in commemoration

of the resurrection of Christ. The name is said to be derived from Eostre, the Anglo-Saxon goddess of Spring. The date of Easter Day is fixed by what is called the "calendar moon," and cannot fall earlier

called the "calendar moon," and cannot fall earlier than March 22 or later than April 25.

Bastern Question, a term applied to the problems connected with the government of the provinces or states on the south-east of the Turkish Empire in Europe. It was this question that led to the Crimean War, and is always the subject of more or less anxiety.

Bast India Company was incorporated by Elizabeth in 1600. Its first capital was £72,000, but its earlier ventures were unsuccessful. By 162, however, the company were able to get a footing in India, obtained a charter of privileges from the Great Mozul, and set up a factory at Surat. Under Mogul, and set up a factory at Surat. Under Charles I, the company suffered severe losses and were compelled to open a subscription for new stock, although Madras and St. Helena had been added to aurhough Madras and St. Helena had neen added to their possessions. During the Commonwealth the company's charter was annulled, but renewed three years later, when a new stock of £370,000 was raised. From that time the fortunes of the company im-groved. In 1662, Bombay, which formed part of the Infanta Catherine's downy when she was marned to Charles II., came under the company's influence, and Charles II., came under the company's influence, and ason developed into an important trading port. Complications arose later on. France sought to gain power in India, and a fierce struggle for supremacy ensued, but the splendid achievements of Clive gained the victory for England, and after 1965 the company became possessed of the revenues of Bengal, Rehar, and Orissa, and thenceforward British dominon in India remained undisputed except by native princes. In 1972 a governing constitution was formed, and Warren Hastings was appointed the first Governor-General. In 1981 a new charter was granted, and in 1984 Pitt established a Board of Control of the India Company A great increase of trade resulted, and this rule continued down to 1888, when, as a result of the mutuy, the Crown assumed the sovereignty and functions of government, whereby the commercial significance of Crown assumed the sovereignty and functions of government, whereby the commercial significance of this vast possession was materially strengthened. From that time the office of Governor-General ecased, and the government is now controlled by a Viceroy and Council. The old company still exists for the purpose of receiving payment of capital and dividends, but has no governing power.

Bastward Position, a position assumed at the altar by an officiating clergyman at the communion service and formally declared illegal in 1870.

Ban de Colonne, a well-known distilled perfume

service and formany deciared niegal in 1870. **Eau de Cologne**, a well-known distilled perfume onginally manufactured at Cologne in the 18th century by Johann Martia Farna, an Italian, and now produced in large quantities both in Cologne and other places.

Ban de Luce, an antispasmodic stimulant composed of certain parts of mastic, oil of amber, alcohol, oil of lavender, and aqua ammonia.

Envesdropper, one who secretly listens to the private conversation of others. Offenders of this

private conversation of oriers. Orienters of making were often severely punished in olden times. **bhonites** were a religious purty of Judaizing Christians of some prominence from the 2nd to the 4th century. They contended for the authority of the Mosaic law, denied the divinity of Christ, and opposed the teachings of Paul.

Bhanine, a crystalline spirit procured from crude pyroxylic spirit; it is volatile, and called alterna-

vely pyroxanthine.

woods, the best of which are grown in Mauritius and Ceylon. There are also Indian and American and Ceylon. There are also incum and American varieties. Only the inner portions, the heart-wood, of the trees are of the necessary hardness and blackness. Ehony is largely used in ornamental calimet work, for piano keys, canes, etc.

Beballium, the scientific name of the squirting cucumber, so named from the fact that when ripe it

breaks from the stalk and ejects its seeds and juice from the hole made by the lireakage.

Ecca Homo ("Behold the Man !"), used in reference

to the pictures and sculptures representing Christ crowned with thorus.

Ecclesiastes, a book of the Old Testament, the word signifying "the preacher." Supposed to contain the reflections of Solomon, though many critics dissent from this view.

Beelestastical Commissioners are an in-corporated body, existing since 1836, whose duties are to administer occlesiastical revenues and manage are to administer occlessastical revenues and manage ecclesiastical property generally. The body consists of the two English Archbishops, all the Bishops, the Lord Chancellor, and principal officers of State, the Deans of Canterbury, St. Paul's, and Westminster, the Lord Chief Justice, and nine lay Commissioners. Since 1840 the Commissioners have augmented or Since isgo the Commissioners have augmented as endowed over 7,500 benefices, and e cetted a total increase of incomes of benefices of over a million and a quarter sterling per annum. In 1907 a Pension Fund scheme for poor and infirm clergy was established but the Commissioners. by the Commissioners

Ecologiastical Courts, dealing exclusively with church affairs, are those of the Archdeacons, the Bishops, and the Metropolitan (York or Canterbury), with the Judicial Committee of the Privy Council as the final Court of Appeal.

Ecolesiasticus, the title of one of the books of the Apocrypha, dating from about 180 B.C. Its alternative title is "The Wisdom of Jesus, the Son of Strach.

Echidna, an animal of the anteater family, inhabit-ing Australia and Tasmania. It lives on insects burrows, lays eggs, and in structure is nearly allied to birds. Owing to its prickly spines it is commonly called the Forcupine Anteater.

Echinodermata, the generic term of the inverte-brate animals of the sea-urchin and starfish class.

Beho is a sound repetition or repercussion caused by some obstructing object, which throws the sound waves back to their starting point. Woods, rocky defiles, valleys, mountains, or walls all act as echo-

producers under favouring conditions.

Belectics, a philosophical system built up of selected parts of other philosophies. First used by early

parts of other pulsaspana. Christian writers.

Eclimaster, a genus of starfishes, including the E. seposius and the E. sensus, with sheathed spines

Eclipse, an obscuration of the light of the sun, moon, or other heavenly body by the passing of another body either between it and the eye or between it and the source of its light. The sun is echysed by the moon intervening between it and the earth; the moon by the earth passing between it and and the sun Eclipses vary in number from year to year, though always recurring in the same order over a

year, though always recurring in the same order over a period of 18½ years.

Bollptie, the circle describing the course of the earth round the sun. Its position at a given date is styled the fixed ecliptic; the position of the fixed ecliptic in relation to the equinox is the mean ecliptic; and true ecliptic; the mean ecliptic and true ecliptic is the mean ecliptic affected by inclination. Obliquety of the ecliptic signifies the angle of inclination of the ecliptic of the

segmines the aligner in inclination of the exhibit of the equinos.

Boumenloal Council, a specially summoned consultative gathering of the heads of the Roman Catholic Church, when important questions of church doctrine and polity are decided. Papal infallibility was the authoritative pronouncement of the last great Ecumenical Council held in 190.

Edaphodon, a genus of Chunarold fossil fishes, found from the Cretaceous to the Ecorene rocks.

Edda, the Look of the mythological lore of Scandinavia, written by Sngrif Struisson in the 19th council of rocks about nine miles from the Comish coast and fourteen from Plymouth. The present structure is the fourth that has occupied this daugerous position. The first was of wood, completed by Winstanley in 1700, but three years later washed away, its architect with it. In 1709 a second and stronger

wood lighthouse was built by Rudyard. This lasted until 1755, when it was destroyed by fire. Smeaton built the third lighthouse, of granite and Portland stone, on the model of an oak trunk, and this, which was finished in 1759, withstood the storm and tempest for over a lundred years, being superseded by the present building, erected in 1879-62 by Sir James Douglas. It is wholly of granite. Its light can be seen over seventeen miles, and in foggy weather it sounds a two-ton bell.

Edelweles, a white perennial flower of the daisy order, common in Alpihe regions.

Edentata, the name given to an order of mammals which are either entirely toothlessor without incisors. Sloths, ant-enters, and armadillos belong to this order. wood lighthouse was built by Rudyard. This lasted

order.

Adible Neats are such as are built by certain birds of the Swift family in sunless caves in Madagascar, Ceylon, New Guinea, and other places. These nests are formed of a jelly-like mucus secreted from a salivary gland, and in China fetch a high price, as much as the equivalent of £7 or £8 a pound being paid for good specimens. Soups are made of them. They run about 50 nests to the pound. It is only the first nests that are of value. When these have been taken away the birds build a commoner nest com-

taken away the birds build a commoner nest composed in great part of grasses, etc.

Edict of Nantes. (See Nantes. Edict of.)

"Edinburgh Review." the great Whig quarterly, established in 1802, edited by Je frey, and numbering among its contributors Lard Brougham, Sydney Smith, etc., and, later on, Macaulay, Edinburgh University, founded 1822, and now one of the leading medical centres of the kingdom. The annual value of its fellowships, bursaries, etc., is over 1820, 1800. About 2005 thirders marked, but the strength of over £18,000. About 3,000 students matriculate yearly. Conjointly with St. Andrew's, it returns a member to Parliament.

yearly. Conjuntly with 52 killioners, it returns a member to Parliament.

Bducation in the United Kingdom has only been compulsory since 1870, when Board Schools were established in all parts of the country. The elementary school age was fixed from 5 to 14, with exemption for proficiency after 11. Under the Education Act of 1870, there grew up in England and Wales a system including about 2,500 schools. Since the passing of the Loucation Act of 1890 the Board of Education Act of 1890 the Board of Education has I een the educational authority. In 1902 a new Education Act was passed, by which Board Schools were abolished and new education authorities were set up in England and Wales, consisting of county, horough, and urban district councils. No denominational formulary was to be taught in the Council's schools, except that in cases of schools not provided by the local education authority religious instruction shall be provided in accordance with the provisions of the original trust. accordance with the provisions of the original trust deed (if any). There are in England and Wales nearly 14,000 non-provided and nearly 7,000 provided Council schools, afterding accommodation for over 7,000,000 scholars. A Welsh Department of the Education Board was established in 1907. In Scotland over 800,000 scholars are on the elementary and higher grade schools register; and in Ireland there are over 8,600 elementary schools, with an aggregate of over 700,000 pupils on the register. The Keformatory and Industrial Schools are also performing good

tory and Industri il Schools are also performing good work. For the higher education oil women there are several Training Colleges, as well as the special University advantages. An improved Education measure forms part of the Laberal programme. Bells are soft-finned, sorpenime fishes almost without scales, abundant in Furopean waters, salt and fresh, They do not generally exceed 3 feet in length, the feniales being larger than the males. Young female eels make their way from salt to fresh water, and when full-grown return to the sea for breeding purposes. The Congre (martine) cel gains to more than twice the size of the fresh-water eel. The Electricel of South America is a variety of great interest,

cel of South America is a variety of great interest, possessing the power of emitting electric shocks. Siffendi, a Turkish courtesy title suffix, usfally accorded to the official and professional class, and equivalent to the modern kinglish use of esquire.

Eff-plant, a plant cultivated for its ovate fruit.

varying in colour from dark purple to white. In great esteem as a vegetable in America.

Egrel, a bird of the heron family, of pure white plumage, famed for its beautiful silky tufts which appear in the breeding season. There are two varieties, the larger kind being found in Lastern Europe, North Africa, and America, the smaller being confined to Eastern Europe and Asia.

Egyptian Vulture, a numerous species common in Eastern countries, and valuable for the scavenging duties it performs. It is considered a moral offence to kill one of these birds.

to kill one of these birds.

Bider Duck, a large duck of which there are five species. It is an inhabitant of northern latitudes, and ipplies the beautiful soft down called "cider down." These birds line their nests with down which they

pluck from their breasts, and it is this that is so much prized. Down plucked from an eider duck is of much less value. In certain parts of Norway and Scotland the haunts of eider ducks are preserved. Eider down is so elastic that a pound or two of it will

fill an ordinary bed covering.

Fillal Towes, but in Faus in 186;-89; is 985 feet high, and cove £200,000.

Filton Basilife (Royal Image), the title of a work ssued in 1640, supposed to have been written by Charles I. in support of kingly divinity, and replied to by Milton in the same year with his Listonskillettes. (ımage breaker).

(image breaker).

Eira (or Eyra), an old legal term still in use in Scotland in connection with the circuit of judges. Justices in eyre were judges journeymy from assize to assize for the purpose of holding trials.

Eistaddfod (a sitting) was originally a congress of Welsh bards and ministrels, and dates from before the 12th century. These assemblies were discontinued for a lower nearly but resumed in sevenand. tinued for a long period, but resumed in 1819, and have been held yearly since, each lasting three or four days. Their object is to foster the Welsh patriotic spirit, and they are devoted to orations and competitions in poetry, singing, and harp-playing, prizes being awarded to the successful contextants. The proceedings are partly in Welsh and partly in English. The festival was held in the Albert Hail, London, in 1909.

Liondon, in 1909.

Bland, the largest species of antelope, a native of
Africa; has large pointed horn, stands 5 feet high
at the withers, and weights several hundred pounds. It is a fleshy animal and much valued as food

It is a nesny animal and much valued as food.

Elaaticity implies a power of expansion by strain, and a reversion to the original form when the strain is withdrawn. Perfect elastructy is presented by gases and liquids, while sold bodies vary in elasticity according to their composition. The greatest amount of elasticity is possessed by indiarubber, temperael steel, ivory, glass, etc., the least by lead, clay, and fats.

Elateridae, a family of beetles of a numerous exercise.

Elaterides, a family of beetles of a numerous species. with short legs and indented anienno. When placed on their backs they are able to easily right them-selves by an action of the body which causes an

audible snap.

Elder, a genus of small trees of the Sambucus family, with pinnate leaves, and bearing clusters of small black-purple berries. The black elder is the best known. It is common in most parts of Europe, and thrives in Britain. A wine of some value is made from its berries, and the juice is employed as an aperent

El Dorado, a "golden land," was an idea that found much favour in the days of the early Spanish ex-It was firmly believed that somewhere on plorers. It was firmly believed that somewhere on the South American continent there was a country abounding in gold and precious stones, and many were the expeditions that were fitted out to effect its discovery. Amongst others, Sir Walter Ralegh went forth on this illusive quest. The term is still used in regard to any place of rich promise. Bldritch, a Scottish term, signifying "frightful"; as "addition squal"

eldritch squeal."

Bleating a term applied to a school of philosophers established at Elea by Xenophanes, who held that "the One, or Absolute, alone is real and eternal."

Blecampane, a perennial plant foundein damp meadows in England, and bearing a large yellow flower. The root possesses certain medicinal pro-perties, and when dried is in popular repute as an romatic and tonic.

Election, in theology, is the theory that God elects to grant eternal life and hoavenly favour to a certain number of human beings, and passes over the rost. Calvanism supports the theory as absolute, Arminianism makes it conditional.

Blectra, in astronomy, one of the Pleiades, also an asteroid, discovered in 1873 by Peters.

asteroid, discovered in 1873 by Peters.

Bleatrieity is the name given to a class of phenomens of attraction and repulsion, the true nature of which is still incompletely understood. It is customary to separate it into two divisions—frictional electricity and voltaic or current electricity. It was first discovered in its frictional form in the 6th century B.C. by rubbing amber with silk, thus creating a power of attraction. Further experiments resulted in obtainin: firctional electricity by using other substances in the same way. Other means of exciting electricity were also found later. In the utilisation of finctional electricity, its distribution over the electricity were also found later. In the utilisation of frictional electricity, its distribution over the surface of a conductor has to be provided for, and electrical machines are employed for developing quantities of electricity. In voltaic or current quantities of electricity. In voltaic or current electricity, the electricity is produced by a battery

or by coil of wire or dynamo machine.

lectric Light is light preduced by electricity, and is of two kinds, the arr-light and the incandescent light. The first is produced when a strong current passes between two carbon electrodes, first brought together, then slightly separated, leaving the current together, then singhtly separated, reswing the current to continue, but setting up a resistance that causes the carbon points and the air between them to assume a white heat which gives forth an intense light, thus completing what is called the electric are The incandescent light is obtained by passing the current through a thin metallic wire or other strong resisting substance until it heats to the point of

incandescence.

licatric Fower, although largely utilised in manufacturing plants and in some collieries, is still in its infancy. Modern industry and even social life are coming more and more to be dependent on the new source of power. The limitations at present placed upon its further extension are so imposed because of our lack of experience. For the moment, we have come to the limit of the voltage upon which the distance that power can be transmitted to depends. assance that power can be transmitted to depends. The highest in use in any successful commercial operation so far is 55,000 volts. For this limit there are four reasons; the difficulty in maintaining perfect insulation; in securing protection from lightning discharges, etc.; loss due to brush discharges from high-tension conductors; and deterioration of the high-tension conductors. The solution of these problems can only be effected by a transmitted.

high-tension conductors. The solution of these problems can only be effected by experience.

Electric Telegraph may be said to date from 1856, when Sir Charles Wheatstone and his conventor Cooke introduced their Single Needle myentor cooke introduced ther Single Needle instrument, which was soon followed by the Double Needle apparatus. Morse, in 1837, invented his famous recording instrument. The first electric cable was between Doyer and France, and was laid in 1850. The first Atlantic cable was laid in 1858. and the second in 1806. It was in 1800 that the first Marconi wireless telegraph messages were sent between England and France

Electric Tram ways were first introduced in this country in reas, from Portrush to the Gaiz's Cavay, but it was not until they had been largely adopted and improved in America that they begin to be more generally installed in the United Kingdom. They are now established in nearly every town of importance, and there is a total route length of considerably over four thousand miles of electric trans-ways and light surface railways in Great Britan. The introduction of motor buses has had the effect of con-siderably arresting the development of transways.

electric current passes through a conducting liquid, between electrodes, connected with the poles of a

battery, resulting in the decomposition and separation of the liquid, if a compound. Water thus becomes

of the liquid, if a compound. Water thus becomes decomposed into hydrogen and oxygen.

Bleokrometer, an instrument for measuring the amount of an electric discharge.

Electronio Theory asserts that matter when analysed into its ultimate components consists of electricity, and that electricity itself is composed of atoms. Many leading physicists have accepted the theory, for which it is claimed that it forms a working hypothesis canable of accounting for all the known. hypothesis capable of accounting for all the known phenomena of electricity.

Blectrophorus, an instrument invented by Volta for obtaining statucal electricity by induction, and consisting of a disc of resin connected with a disc of consisting of a use of resin connected whith a use of polished metal. On the resin disc being negatively electrified by rubbing with catskin or warm, dry flannel, the metal plate is placed upon it, causing the flannel, the metal plate is placed upon it, causing the plate to be positively charged on the lower surface and negatively on the upper. At this point, if the disc be touched with the finger, the negative electricity is discharged into the earth, leaving the disc

charged positively.

Electroplating is the process of coating metals or other substances with a metallic film, applied in a bath of the solution of the coating material, by the

action of an electric current.

Elegiacs, a kind of verse originated by the ancient Greek poets, afterward, adopted by the Romans, and frequently used in modern times, for compositions of a mournful character. An elegiac consists of distiches, "each of a dictylic hexameter and a dipenthum." Annong the Roman elegiac poets, Catullus, Tipullus, and Ovid were noted.

Elements, in the popular interpretrition, comprises earth, air, fire and water. In chemistry, an element is a substance in the simplex form to which it has been reduced, and at the present time there are about eighty of these elements demonstrable. They

are classed as metallic and non-metallic.

are classed as metaline and non-initiating.

Blemi, the name given to a vemous exudation obtained from various trees of the Burseraceæ order found in most tropical regions. Valuable in pharmacy, also for varinshes, and for chewing Blaphant, a proboscusian maintail of which only two species cost—the Asiatic and the African elephant.

species exist—the Adatic and the African elephant The first inhabits India, the second Africa. No other animals possess a trunk. Both males and females have large rover tasks, of considerable commercial value. A full-vized elephant weighs about 7,000 ibs, and stands three yards high at the shoulder. They are the largest existing quadrupeds, Several fostal animals of this family of still larger bulk have been discovered, including the mammoth and the mastodom. The Indian elephant is domesticated and used as a beast of burden.

Eleusinian Mysteries were festivals of symbolic rices, in which representative gods and goddesses were honoured. They were performed at Athens, and Ceres (goddess of corn) was the chief divinity relebrated.

Elevation, in astronomy, means the height of a celestial body above the horizon.

Elf, a fairy personage of a "trickly" disposition, who

is supposed to interfere in human affairs with

mischievous intent

mischevois intent

Eigin Marbless, a great collection of sculptures, got
together by the 7th Earl of Elgin, in Greece, and
brought to fingland in 1812. These celebrated
treasures had originally formed part of the
Parthenon at Athens, and were the work of Phidias.
Lord Eigin experded over 77,000 upon them, and
they were purchased for 735,000 for the British
Miscauli where the are now to be seen

they were purchased for Lagron for the British Museum, where they are now to be seen.

Bilac (Bleac, or Eretriac sect. alternatively)

Bohool, a school of philosophy, founded in Elis by Phedo, the graph of Socrates, but of its theories filled that is definite has been preserved.

Blixip, a term derived from the alchemists, and referring to a substance or tincture which it was shoposed would transmute inferior metals into gold, and also make old men young again. The word is now applied to many essences and derections.

Elik- the largest animal of the deer family, possessing

enormous antiers, and standing, when mature, about seven feet high. The American moose is of the same family. Elik hunting is an exciting sport, and is mucheindulged in in Canada. Ell, an old English cloth measure, representing a length of 45 inches. It varied in other countries,

from 23 inches in Saxony to 47 inches in France.

Ellipse, in geometry, a compressed circle or oval, forming a curve so marked out that the sums of the distances of each point in its periphery from two fixed points are the same.

nxcq points are research and the having a dozen species, and common to Furope India, China, and North America. It makes valuable tunber, its worl being hard and durable, and for shade and ornament, with its curlung branches and ample foliage, is unsurpassed.

Elongation, an astronomical term expressing the angular distance from the sun at which a planet is

observed.

Blopement, a clandestine running away of a woman with a lover, rendering the man hable to punishment when the woman is under eighteen.

when the woman is undor eighteen.

Bizevir, the name of a celebrated family of Dutch
printers, who produced editions of Latin, French,
and German classics, which were highly valued for
their beauty of type, and accuracy of printing
They flourished in the 17th century.

Embalming, the process by which dead bodies are

preserved from decay by means of spices and drugs. The art reached perfection in ancient Egypt, as the minimies which still exist so powerfully testify. In modern times many experiments in embalaining have been tried, with various degrees of success.

been tried, with various degrees of success. Ember-days are days set apart for fast and prayer in the English and Romish churches, at the periods appointed for ordination, viz., the Weinlesday, 1/riday, and Saturday after the first Sunday in Leni, the same days after Whit Sunday and after the festival of the Holy Cross in September, and St. Lucia in December.

Emblem, a symbolical figure or design referring to

Oparie's "Emblens" are emblens in word-pictures.

Emblements are land crops, or profits thereof, which belong to a tenant, or his executors, aithough the lease of the land may have expired before the crops partied. crops matured.

Embossing, the art of stamping in relief letters or

Embossing, the art to samples designs upon plant substances.

Embryology, the scene e of embryos, tracing their development from the fertilisation of the germ or seed to its maturity, and applying to all sections of

seed to its maturity, and applying to all sections of the animal and vegetable kingdom.

Emerald, a vanety of beryl of a clear green colour and transparent. It is highly valued as a gen, and the finest come from New Granada and Peru Emery, a granular substance of the corundum order, generally maked with other metallic substances, and used in a powdered state for polishing and readour turners. Eliment stone, a church and grinding purposes. Emery stone is chiefly found in Asia Minor and the Grecian Archipelago.

Emetine, an alkaloid substance forming the reading principle in iperachuana, and largely used as an

principle in sporachulana, and largely used as an emetic; hence its name or all of a person or family from one country to another for the purpose of settlement, and has been a common practice from tho most ancient times. The general stream of emigrants in modern times, however, has been from turope to America, and the British race have in this movement been the most active. America, indeed has been enturely developed by entigrants. British emigrants have had a wide field of choice, however, in Britain's wast Colonial possessions. Since 1853 an average of a quarter of a million persons has annually enginerated from Great Britain (including fereigners), fire majority of them having proceeded to the United Sizes. Canada has latterly been the most attractive region, and both the Britain and the Canadian governments provide ample information for those wishing to proceed to British North America. South Africa has also drawn a stream of British emigrants to its mining this movement been the most active. America,

and other enterprises, though not perhaps as yet to such an extent as was anticipated at the close of the Bodr war. The Emigrant's Information Office was estublished in 1880, and now performs invaluable public service.

Emir, a title signifying head or chief, applied in Mahommedan countries to princes, chiefs, or rulers. The direct descendants of Mahomet's daughter

Fatima were also called Emirs.

Fatima were also called Emirs.

Empirica, a sect of Greek physicians founded by Serapion, who maintained that practice rather than theory was the safest gude in medicine. In recent times the term has been generally applied to quacks or experimenters in physic.

Emplectum, a kind of masonry used by the Greeks and Romans, consisting of walls built with hollow spaces between, which were tilled in with rubble. Much used in turtification construction.

Much used in tortification construction.

Empyream, the highest heaven of the Ptolemaic system, and the supposed abode of the Deity. Emu, a large bard of the Struthonder family, inhabit-ing Central Austraha, and resembling the Cassowary. It is unable to fly, but is very fleet of foot and frequently hunted.

Enamel, a vitrified substance applied as a coating to chained, a vitined substance applied as a costing, to pottery and porcelain. The art was practised by the Assyrians and Egyptians, and was introduced to Europe by way of Greece. Enamels are all either of the transparent or opaque kind, and are susceptible. to an immense variety of colouring, according to the metallic oxides introduced

Encarpus, an architectural ornamentation consisting of sculptured representations of garlands or festoons of flowers or truits, and generally wrought on friezes

or capitals of columns

Encaustic Tiles were much used in ancient times as the evidences of ancient Rome and of the mediaval period in Enrope generally clearly indicate. In modern times there has been a revival of this art, which has been very successful in many of the present-day examples of our own tile manufacturers, being of a more beautiful and durable character than those of former times.

than those of former times.

Encyclieal Letters, a term used in reference to letters addressed by the Pupe to his bishops upon matters of doctrine or discipline.

Encyclopsedists, a term first applied to the eminent writers who collaborated in the French Encyclopiate (17, 50). These writers comprised Diderot, D'Alembert, Voltaire, Helvettus, and others, and their writings generally were sceptical as to religion, and destructive as to politics, and had great influence in popularising the social ideas which afterwards resulted in the French Revolution.

Endive, a plant of the chicory family grown as a

Endive, a plant of the chicory family grown as a hardy annual and yielding a profusion of leaves. Is

hardy annual and yielding a profusion of leaves. Is generally used for staid

Endogens, the name applied to a large family of flowering plants, of which hiles, orchids, arms, grasses and sedges are prominent examples. The leaves are usually parallel-remed, and the flowers possess three parts. It is estimated that there are more than according to the orchident places of endogens, including 5,000 of the orchident places of endogens of the orchident places of the of the orchid species.

Energy is of two kinds, actual, such as the body possesses in right of its motion, and potential, which is conserved. It is demonstrated that energy can neither bevealth for destroyed. A definite amount exists, and though its form may be changed, it does not diminish fleat is the energy of the universe emanating from the sun, and if it is made to disappear in one direction it manifests itself in another.

Engaged Columns are such as are partly em-bedded in the walls to which they belong. It is an architectural rule that at least half their thickness

should stand out from the wall,

should stand out from the wall.

Engalhardtia, a genus of resinous trees, reaching in
java to a height of 200 feet. The trunk is cross-cut
locally for conversion into cart-wheels.

English Language is composed of many elements
Aughard, Saxon, Norman French, Scandinavias,
Dutch, and the various underlying contributions,
from Latin and Celtic sources. The result is a strong,
scapressive, composite language, now spoken by all

races of English descent, including the of the United States, and the bulk of the population of the various dependencies of the Empire — Canada, Australia, New Zealand, Tasmania, Africa, etc., also

Australia, New Zealand, Tasmania, Africa, etc., also inarrely in India.

Inglish Opara. the First.—The first English opera was "Dido and Æneas," written by Henry Purcell about 1089. It was written for the breaking-up festivities of a school for young ladies, and the marvel of it is that it anticipated the operatic form of a hundred years later, the text being set to recitatives and melodies, and all spoken dialogue omitted.

Ingraving is the art of cutting or otherwise forming designs or pictures on wood, stone, or metal surfaces for reproduction by some method of printing Woodengraving was the earliest in the field, dating from the xeth century. Later. engraving on steel and

the 15th century Later, engraving on steel and copper plates was introduced, and mezzotint, lithography, stipple, aquatint, etc. With the developumograpmy, stipple, aquatint, etc. With the develop-ment of photography and an increased knowledge of the use of acids, many readier methods of engraving were adopted, and now wood-engraving, which was formerly resorted to for all general engraving pur-poses, is comparatively little used. What is styled "process" engraving is the most utilised. "process" engraving is the most utilised. "Inistemant, is the act of volunteering for military or naval service. In former times recruits were considered bound on accepting bounty means, but

considered bound on accepting bounty money, but as the law stands to-day they cannot be sworn in within twenty-four hours of their enlistment, when they may withdraw if they wish upon repaying the

bounty and costs.

onting and corner title given to a commissioned officer of the lowest rank in a foot regiment, and so called because he was entrusted with carrying the colours of enising. The rank was abolished in 1879. Officers of like rank are now styled sub-lieutenants.

- Uncers of like rank are now styled sub-lieutenants.

 Inaliage, a method of storing and preserving fodder, vegetables, etc., in pits dug in the ground, and excluded from air or light. Although the system was practised in ancient Rome, it was not until the latter part of the 19th century that it was revived in England.
- **Entablature**, that portion of a building which surmounts the columns and extends to the roof of the tympana of the pediments. It comprises three parts, the architrave, the frieze, and the cornice.

parts, the architrave, the freze, and the cornice.

Intanis, the swell of the column in either of the orders of architecture.

Intalius, one of the common monkeys of India, with a ridged forehead, a long tail, and whiskers and beard. It is regarded by Hindius as sacred, and enjoys immunity from injury at their hands.

Intomology is the study of insects, and deals with three main groups—Aimetabola, which, are wingless and undergo no metamorphosis; Heminatabola, which experience metamorphosis; in very similar three stages; and Holometabola, which go through the same metamorphosis, each stage being markedly different from the other.

different from the other. different from the other.

Intomostraca, a Crustacean sub-class, known as water-fleas, remarkable for a horny shell covering, jointed, and subject to regular periods of moultung. They mostly live in stagnant waters,

Intozoa is a term used to designate generally internal parasites, such as intestinal worms.

internal parasites, such as intestinal worms

Envelopes, as wrappers for enclosing letters, were
not in ordinary use until after the introduction of the
penny postage system in 1810. They were known in
France, however, in the 17th century.

Envoy, a special diplomatic agent deputed to represent a government at a foreign court, or fo perform
a special service, such as the negotiation of a treaty.

Eocene, a geological term applied to the lower
division of Tertiary strata, and evidencing the
beginnings of existing species.

Epact, the excess of the solar over the lunar year
or month, and called menstrual and annual. The

or month, and called menstrual and annual. epact increases by eleven from one year to the next,

and by twelve in some years.

**Bpaulette, a shoulder barie fringed with cord worn by English army officers until 1855; now confined to naval officers, and varying in form and richness according to the rank of the wearers.

Ephamerides, a typical genus of insects of the order Neuroptera. In the larval condition they exist from two to three years, but no sooner do they arrive at maturity than their lives are nurried to a close. They rise up in myriads on warm summer nights, take no food, propagate, and perish.

Ephesus, Council of, was held in A.D. 431, and noted for its condemnation of the Nestorian heresy.

noted for its condemnation of the Nestorian heresy. (See Nestorians.)

Ephod, a vestment worn by a Jewish high priest, and sometimes by priests of lower rank. In olden time it was of rich texture and set with gems.

Ephors were the five annually elected magistrates who exercised almost supreme authority in ancient Sparta; and later, the office was adopted by the Romans. The last of the Spartan ephors existed in 225 B.C. when Cleomanes III. exterminated the existing magistrates and abolished the office.

Eplo, a heroic narrative poem dealing with important events and introducing supernatural features; the most famous examples are Homer's Iliad and Odvssey, Vingil's -find, Ariosto's Orlande Furioso, Tasso's Jerusulem Delwered, and Milton's Paraduse Lost.

Last

Epiteane, pertaining to both sexes, a term now usually applied, in grammar, to nouse which indicate indiscriminately male and female animals, as sheep.

Pitemiology, the science of epidemics, which in recent times has formed one of the most important

branches of medical study.

Epidendrum, an orchid of any genus growing upon

Epidota, a mineral occurring in primatic crystals and consisting of silica, alum in, oxide of iron, lime and magnesia, and having a fairly wide distribution.

Epiglottia, a lamelia or cartilage designed to cover and protect the entrance to the larynx during the

process of food swallowing.

pigram, a term originally used to indicate a monumental invertition; afterwards applied to any concise and pointed specimen of verse, but in later times is applied to short, witty expressions in prose as well as serse,

Epilogue, an address, in prose or verse, delivered at the end of a play, and a usual accompaniment to the dramatic works of the 16th, 17th, and 18th centuries, but now fallen into desuetude.

Epiphany, a courch festival celebrated on January 6, Twelfth Day.

b, twenth pay.
Bplphytes, a genus of plants which grow on other plants, but do not derive nourishment from them; terms, mosses, lichens, and numerous orchids are of this class.

Episemon, a distinctive mark on a coin, shield, or budge, used by the ancient Greeks to distinguish particular cities.

surgery by the ancient Greeks and Romans at the door of the bride-chamber. Many specimens of this class of composition, by Sappho, Catullus, etc., have come down to us.

Epithelium, a layer of nucous membranes, com-prising the cells of the surface of the body, and performing an unportant function in the glandular secretions

Epoch, a period of time of such importance that sucspoons, a periou of time of such importance that suc-ceeding years are numbered from it; differing from an era in that the latter is a succession of time, while an epoch is a point of time. Among the various epochs may be counted the birth of Christ and the Reformation. There are also the goolwical epochs, and epochs in arts, cience, and invention, as well as in history generally.

in history generally.

Gunation of Time represents the difference between clock-time and sun-dial time. This difference is greatest in November, when the sun is sixteen minutes behind. The only days on which there is perfect accord between the two times are April 15, June 15, August 31, and December 24.

Equator, the inaginary great circle of the earth, every point of which is go degrees from the earth's poles, and dividing the northern from the southern hemisphere. It is from this circle that the latitude of places north and south is reckened.

Equides, the zoological term for the family of hoofed quadrupeds comprising two genera—Equas, to which the horse belongs, and Asiaus, comprising the ass and zeloss. In the Tertiary period there were several other species of Equides—Hipparion, Protohippus, etc .- of which fossil remains have been discovered.

etc.—of which tossi foliaists nave been discovered.

guinox, the time wheth the sun crosses the plane of
the earth's equator, making day and night of equal
length, occurring about the 21st of March and the
22nd of September, when the spring and autumn
quarters are respectively entered upon.

Guites, a body of ancient Roman cavalry, recruited
from citizens of rank, and forming the equestran
order, coming next to the schatorial.

- order, coming next to the schatorial.

 Boulty, a term used to express a modification of the severer form of law in order to insure equal justice. It is the principle of fairness applied to general rule, and in recent times all English courts administer equity as well as law.

 Bras are distinctive periods of time associated with some remarkable historical event or personage. The Christian era, dating from the birth of Christ, did not obtain adoption for the reckoning of the years until the 8th century, though invented by Dlonysius Exigus in the 6th century. It is now generally understood that the year 1 A.D. is put too late by at least three years. The 7e 1sh era dates from 300 B.C.; the Yishian era from the alteration of the calendar by Julius Cesar, 45 B.C.; the Mahomedon era from by Julius Cæsar, 45 B.C.; the Mahonmedan era from A.D. 622,
- Ernstians, followers of Erastus, who, in the 16th century, advocated the restriction of ecclesiastical
- Ergot, a fungoid growth that affects the seeds of various grasses, causing them to blacken and lose their virtue. The ergot of rye has medicinal value, and is used to assist contraction in internity cases.
- Bridanus, the constellation of the winding river in ancient astronomy, situated south of the Taurus, and visible only in the southern celestial hemisphere. It contains one star of the first magnitude, Achemar.
- contains one star of the first magnitude, Acheliar, **Erl-King**, a forest fiend of the German mythology, whose wiles were generally exercised in luring children from their homes and carrying them off. In Guethe's ballad of the "Erlkonig," it is a traveller who is lured to destruction.
- Brmine, a small, beautifully-furred animal found in northern latitudes, and most abundant in Arctic America. Its entire coat becomes a lovely white in the winter, the tip of the tail only remaining black.
- Its fur is highly prized.

 BFFOF, Writ of, a process issued when a paliable error has been made in court proceedings, authorising its revision in a higher court.

Erse, the old Gaelic dialect of Ireland, and after-wards of the Lowland Scots

- Bacapament is the contrivance by which the pressure of the wheels in a watch or other timepiece is accommodated to the vibratory action of the pendulum or balance-wheel, providing the regulating power which maintains an even impulse in spite of irregularities caused by triction or air resistance.
- Escarpment, the face of an abrupt thit or hill; also a portion of fortified ground whose edge is cut away almost vertically, to render it impossible for an enemy

Escheat, a term in law signifying the reverting of lands to the Crown, or the original lord, through the failure of heirs.

Enure of ners.

BECUTEL a magnificent palace built in the 16th century by Philip II. of Spain at a village 36 miles north-west of Madrid. It comprises, in addition to a palatial residence, a fine Doric church, a valuable library, and the royal mausoleum, the burial place of the kings of Spain. Although it has suffered from fire and depredation, it is still one of the finest public building it seems to be sufficient to the control of the finest public building it seems to the sufficient the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it seems to the control of the finest public building it is seen to the control of the finest public building it seems to the control of the finest public building it is seen to the control of the finest public building it is seen to the finest public building

nre and depredation, it is still one of the innest public buildings in the world.

Beautoheon, a shield-shaped surface called a field, upon which a man's armorial bearings are represented. A woman's escutcheon is lozenge-shaped.

Bestepic, a term which had its origin in the teathing of Aristotle, but in later times has been applied to such doctrines as are intended only for privileged students on these of the innest circle. students or those of the inner circle.

- Espailer, lattice work upon which to train fruiting or ornmental trees.

 Espaire Grass, grows in great abundance in Spain and North Africa, the pulp of which is largely used for paper-making, as well as for other purposes.

for paper-making, as well as for other purposes.

Baperanto, a proposed universal language, invented
by Dr. Zamenhof, of Warsaw, and based on phonetic
principles. Many Esperanto societies exist in various
countries. Introduced into England in 1902.

Baqalmaau.—The people of the Arctic regions.
They dwell in skin tents in summer and closed huts
in winter, and live by hunting and fishing.

Baquimaux Dog, a peculiar and very hardy animal
of great utility to the inhabitants of the Arctic regions
as: sledge-drawers. In appearance it suggests the
Pomeranian, but is of a larger breed and has a wolfelike head. elike head.

elike head.

Esquirs was formerly something of a distinctive title applied to the otherwise untitled sons of nobles, also to knights, edicers, officials, and professional men; but how accorded generally as a matter of everyday courtesy in addressing people who are of good social standing.

good social stanting.

"Essays and Reviews," the title of a volume of theological essays, published in 1860, which caused a considerable sensation in religious circles by the unusual freedom of thought fi displayed. Among the contributors were 1701, Jowett, Dr. Temple Dr. Rowland Williams, and other Church of England dignituries.

Essenes, a Jewish sect established in the and cen-ESSENCE, a lewish sect established in the and cer-tury B.C., alming at a ligher spirituality, and living an ascetic life. "The love of God, he love of virtue, and the love of man' was their moto. They were restricted to Palestine, and did not exist as a sect after the destruction of Jerusalem.

Essential Oils are oils derived from plants by distillation or a vivesion, and much used in perfumare

distillation or expression, and much used in perfumery

as well as to some extent in niedicine.

Estates of the Realm in Great Britain consist of the Lords Spiritual, the Lords Temporal, and the Commons

Estoppel is a legal term indicating that a person is barred of a legal remedy because of some former act which precludes him from the right. Estoppel may be either by deed or act.

may be enter by deed or act.

Bactovers, necessaries to which a person is entitled by liw, as in the case of a tenant who is privileged to help himself to wood for fuel or repairs, or in the case of a woman separated from her husband who has a claim to alimony from her husband's estate. Etching, a process of engraving, on copper usually,

the design being drawn with a steel needle, and the lines produced by the action of an acid or mordant. Some of the more notable etchings of recent times were done by Mr. Whistler.

Ether, a volatile liquid, consisting of carbon, oxygen and hydrogen. It is a valuable anaesthetic obtained by heating alcohol with sulphuric acid.

obtained by heating alcohol with sulphuric acid.

Ethios, the science of moral conduct and duty, a
study founded on psychology, and intended to
determine what is right or wrong, according to
circumstances, conditions, and matural powers and
obligations. Aristotle, Plato, Känt, Bacon, Hobbes,
Paley, Whiewell, Hinne, Bentham, Locke, Mill, and
Herbert Spencer have all contributed to the development of Thics, the last-named being the most
illuminating of exponents of a clear cthical system.

Ethida. a compound formed by the union of an

Ethide, a compound formed by the union of an element with the monad radical ethyl.

Ethnology and Ethnography are the kindred sciences which treat of mankind, the latter classifying and describing various racial diferences, while the former inquires into "the mental and physical differences of mankind and the organic laws upon which they depend." Both sciences are included in which they depend." Both scientes are included in Anthropology. Ethnologists divide mankind into three classes only: Mongols with tawny skims, straight black hair, flat faces, and receding foreheads: Nagroes, with black skins, flat noses, projecting jaws, dark woolly hair: and Caucastans, with white skims, straight foreheads, prominent noses, and hair mostly brown. The Caucasians are further divided into the Aryan and Semitic races. The Mongols are native to Asia, America, and Polynesia; the Negroes to Africa; and the Caucasians to Europe and Western Asia.

Etrascan Pottery comprises the early cinerary urns; black, unglazed ware, with figures in low relief; painted, imitation Greek vases; and vases coated with black varnish, with figures in relief.

Etymology treats of the science and structure of words, including classification and derivation.

Buosine, an anesthetic which makes operations possible that might not otherwise take place owing to heart weakness, for the patient remains conscious during its use, although these parts of the body to which it is applied are insensible to pain. It gives the surgeon more time, and does away with certain people's conscientions objections to anæsthetics.

Eucalyptus, an Austrahan tree that grows to 2 great height, and possesses remarkable properties, it exudes a valuable gum, has a fibrous bark, and rields an oil from its leaves which is of great use in

bronchial affections.

Eugenies, the science of racial progress as affected by heredity and environment, first formulated by the by heredity and environment, hist formulated by the late Sir Francis Galton, who in 1905, in this connection, endowed a Research Fellowship at the University of London, and at his death in 1911 bequeathed to the University £45,000 for promoting the study of national eugenics. Thus a Galton Professorship of Eugenics was established,

Euomphalus, a species of extinct shall whose fossil discordal shell is frequently found in the rocks of the

Palæozoic period.

Paleozoic period.

Eupatorium, a genus of plants of the Composite order, with clustrous flowers, native to America. One species, hemp agriniony, is found in Britain. Substitution of a pieasant for an impleasant, a refined for a vulgar, word, in special or writing auphorbiaces, an order of apetalous plants of wide distribution, comprising herbs, shrubs, and troes, bearing flowers and fruit. The latter sometimes yields an acid, more or less pusionous, juice, and in other kinds, yields starch cassawa, certain oils, and caoutchoue. The lock-tree is of this order.

Euphulism, an affected hierary style, originating in

Euphuism, an affected literary style, originating in Euphuism, an anected interary style, originating in the 16th century, and denving its name from Euphues, the chief character in John Lyly's Anatomy of Wit, issued in 1579, a work of forced elegance and bombast. From these exaggerations, however, there spring many acceptable embellishments to the English language.

Eurasians are half-castes, one of whose parents is

European and the other Asiatic.

Euterpe, an order of palms belonging to tropical America and the West Indies, with very long, slender stems, surmounted by a close cluster of leaves and

an edible fruit. There are several species.

Evaporation is the process by which a solid or liquid is resolved into vapour by heat. It is a process that it always in action on the surface of the earth, especially in connection with the sea and other water areas, the vapour rising therefrom being lighter than the air, forming clouds which afterwards break, the vapour thereupon falling to earth again as rain. The same process is constantly in action over smaller surfaces, the rate of evaporation being dependent on the general atmospheric conditions.

To the physiological characters which distinguish it."

The themselves a consistency of the steps by which any living being has acquired the morphological and the physiological characters which distinguish it." The theory, as laid down by Darwin, that all existing species, genera, and classes of animals and plants have descended from a few simple forms, the

process being controlled by natural selection.

Excommunication, exclusion from the rights and privileges of the Church It is of two kinds—the Greater, which means a total cutting off, and the Greater, which ineans a total cutting on, and the Lesser, which only shuts out from participation in the Eucharist. In olden times, Greater Excommunications were often launched against rulers and leaders, and were regarded with considerable awe.

Exact, authority to "go out," as of a bishop giving leave to a priest to remove from his diocese, or of the master of a college permitting a student to leave. In

law, a writ of ne event regne is sometimes issued to

law, a writ of me event regne is sometimes issued to prevent a witness quitting the country.

Executions, the carrying out of the sentence of death, are variously performed. In Great Britain the hangman performs the work within the precincts of the gaol; in France, Belgium, Denmark, Switzerland, and parts of Germany the guillotine is used, and the United States electrocution is resorted to.

Executor, a person named by will to administer a texator's estate either alone or with another or others. An executor can decline to act by formally renouncing but if he accepts it will be his duty to

renouncing, but if he accepts it will be his duty to have the will proved within six months of the testator's decease, and to proceed to carry out the directions contained in the will

Exedra were common in ancient times, and consisted of raised phtforms, approached by steps, and containing public seats for rest and conversation. The term is now sometimes applied to any external recess in the wall of a large building.

**Exetastes, a genus of files of the ichneumon family, with impectinate claws, and having about 50 species, more than half of which are European.

**Exogens, the old term for Dicatyledous, meaning the process of blast of the greater than the process.

process of plant or tree growth where the stem forms in a succession of concentric layers, each layer marking a year's growth. Most forest trees are of the exogenous type

Exorista, a parasitic fly, having its antennæ pro-jecting from the middle of the face, and the third

joint considerably longer than the second,

Exoterica, the opposite of esoteric, is the term applied to doctrines openly expounded Exotics are plants of foreign origin not fully

acclimatised.

Explosives are substances by whose combustion gas is generated in such volume as to induce explosion. Cunpowder is the best known example, and has been in use for many centuries. Recent years have seen great developments in explosives, many powerful new preparations having been introduced, including nitro-glycerine, dynamite, guncottor, cordite, forcite, etc.

Extract, an essence or tincture drawn from a substance by chemical process, the agent of evaporation being water, alcohol, or either, or a combination of them, according to the substance to be treated.

Extradition, the act of giving up fugitives from justice by one country to another, and in the United Kingdom can only be granted after a magisterial investigation, when, if the claim for extradition is justified, the Home Secretary grants the necessary warrant. Great Britain has extradition treaties with nearly every country possessing an organised government. A purely political offence is not extraditable in England

Extreme Unction, the final sacrament of the Roman Catholic and Greek Churches, administered to a dying person, and consisting of the anointing with holy oil, after confession and absolution.

Eye, the organ of vision, assumes a variety of forms in different organisms, from the mere rudiments of eyes in infusorians to the complex and delicate visual organ of the higher animals. In man, it is a hollow ball of globular shape, consisting of an opaque membrane, the Sciencia, forming the outer covering of the eyeball; Choroid in front, a horny, transparent structure, intersected with blood vessels and nerves, and carrying the Iris and Pupil; and the Reima, the innermost coating of the eyeball. The optic nerve transmits to the brain the visual images received. The eyeball is filled, with fluid refractive media, and the crystalline lens in the axis of vision collects the rays of light to a focus on the retina. The movenorms of the eye are controlled by six muscles extending from the back of the orbits to the front of the eyeball. The lachrynning gland is at the outer corner of each eye, and secretes the watery falled lears. Protective functions are performed by

the gyelids, eyelashes, and eyebrows.

Byabright, a genus of plants, of which only one species, the common Eyebright, or Eyewort, is known in Europe. Its luico is aromatic and astringent, and used to be a country remedy for eye ailments.

Eye-teeth, the two canine teeth of the upper jaw,

next to the grinders

By Es, a species of wild cat, with reddish fur, exceptionally long body, and long tail, native to Texas,

Louisiana, and South America.

Fabian Society, an association formed in 1883 with socialistic aims, but favouring the old "moral suasion," rather than distinctly aggressive, lines. Mr. Bernard Shaw and Mr. H. G. Wells have been

prominent Fablans.

Fables are fictitious narratives intended to enforce some moral precept, and may be either in prose or verse, and deal with personnied animals and objects or with human beings. They take the form of the apologue, which presents incidents that could not have happened, such as Æsop in ancient tinies, and Hans Christian Andersen and the Brothers Grimm (in many of their stories) in later days, have erimm (in many of their stories) in later days, have given us; or the parable, which relates to matters that might have occurred.

Facsimile, an accurate copy of an original letter,

document, manuscript, or drawing. Aided by photography, facsimile reproductions have been much easier of achievement in recent years than

Faction, a name originally given to the contending parties in the ancient Roman charioteering sports. They were distinguished by different coloured garments, and they and their supporters were frequently ments, and they and their supporters were frequently drawn into fierce conflict outside the arena. In modern times the term has been mostly used to designate combinations of persons opposed to established authority.

Pactory Legislation dates almost from the beginning of factorics, when Watt's steam engine.

beginning of factorics, when Watt's steam engine and the great inventions in textile machinery led to the establishing of these gagantic workshops. There were Factory Acts passed in 1802 and 1819, for limiting the hours of labour and presenting health regulations, but it was not until the passing of the Ten Hours' Bill in 1847 that any really satisfactory legislation was introduced for the "slaves of the mill." There were no factory impectors until 1843, when three were appointed. The general conditions of factory the were much improved by the Factory when three were appointed. The general conditions of factory life were much improved by the Factory and Workshop Act of 1878 and other Acts on similar and workship Act of 1978. "In other Acts of similar these were passed in 1974, 1903, and 1905 respectively. In 1907, however, a consolidating measure was pas (called the Pactory and Workships Act 1901) which superseded previous Acts and made the whole factory code one consolidated law. By the present law a staff of sog inspectors (including 18 women) is employed. The Act was extended to Laundines from Jan 1, 1908. In Jan, 1913, there were 117,275 from Jan 1, 1908. In Jan, 1973, there were 117,275 factories and 155,679 workshops, into including men's workshops, docks, etc.) upon the registers; and the number of persons employed in factories is over 4,500,000, and in workshops (including men's) 650,000. The Home Department is the controlling authority. Padfing, a public-chool custom in Ingiand, once very prevalent, but now falling into disuse, whereby junjor scholars were under to perform mental dises-

junior scholars were made to perform menial duties for their seniors, receiving in return protection from the insults or attacks of other boys.

Faionce, a kind of decorated glazed earthenware, invented in Faenza, Italy, about the end of the 13th Wedgwood-ware is a notable example of modern faience.

Faille, a light silk fabric used for veiling material and other purposes of adornment. In the Middle Ages the manie was applied exclusively to long veils worn by nuns.

Fairles are imaginary creatures supposed to be **AIPISE are magningy creatures supposed to be invested with supernatural powers. At one time a general belief in them was prevalent, especially amongst the peasantry, and the uncivilised ractification of the peasantry, and the uncivilised ractification of the peasantry, and the uncivilised ractification of the peasantry and the supernature of the peasantry and the peasantry and the peasantry and peasantry and exercising good and exercising good and exercising good and

bad influence over humankind. If a person was lucky it was the work of the good fairy, if unfortunate the evil fairy was the cause. Early literature is crowded with the denizens of fairyland—fairles, crowded with the denizens of fairyland—fairles, elves, fays, vylphs, spintes, gnomers, goblins, genil, and so forth Shakspeare's "Midsummer Night's "Faerle Queen" is a still more separate and distinct creative effort. Among the fairles of the domestic order, "Robin Goodfellow" was much talked of in England; as the "Bunshee," with its warming apparition, was peculiar to Ireland; while the "Brownie," who rendered nocturnal help in household affairs, was more special to Scotland. In Orientalliterature, particularly the "Arabian Nights," the fairyland opened up to us is a wonderfully vivid the fairyland opened up to us is a wonderfully vivid and active realm.

Fairing, a present purchased at a fair, or money given to be expended thereat.

Fairs were established in mediæval times as a means of brunging traders and customers together a stated periods, and formed the chief means of distribution. The great linglish fairs of early times were those of Winchester and Stourbridge, to which came foreign merchants as well as traders from all parts of the kingdom, everything being sold at these gatherings, from precious stones to herrings, from costly silks to homely buckram. As far as Great Britain is con-cerned to-day, improved conditions of transit and distribution have prictically rendered commercial fairs unnecessary, though horse, cattle, sheep and pleasure tarts continue to be held. In less populous and more remote countries there are still important fairs, such as those of Nijin-Novgorod, Leipse, Frankfort, and Lyon.

Frankfort, and Lyons.

Fairy Rings are circular discolorations or indentations in fields caused by the growth or action of certain
fungi, sometimes making their appearance in a single might and giving the circle the aspect of being strewn with ashes. In older times it was imagined

strewn with ashes. In olden times it was imagined that there rings were the dancing circles of fairies.

Faith-Healing is treatment of sickness based on the supposed Scriptural doctrine that prayer and faith are the true, and only necessary, healing powers. Nevertheless, the Christian Scientists, Peculiar People, and others who endeavour to follow out the idea and fail to procure neglical aid in cases whereby fatal results ensue, are, table to prosecution.

Fakirs are Mahommedan mendicants who are held in great regard in India. There are two

in great regard in India. There are two classes; those who are strict devotees to the principles of Islam and are called dervishes (9,0); and those who are unattached to any religious order, but are simply wandering Mussilinan beggars
—or itinerant so-called "holy men." Some of the
more functical fakirs commit self-mutilation, and

pride thankeld lakes rounness settlement, and pride themselves upon their wretchedness.

Falchions were a kind of sword, generally curved, used by the Roman soldiers, and afterwards adopted

by other nations.

Falcon, a diurnal bird of prey of the Acceptors order, of great switness of wang, feeding on birds order, of great swituess of wing, feeding on birds and small manmals, which it captures airve. Has a short bent bill, sharp hooked claws, and an eye of great power. The Ger-Falcon, which inhabits northern latitudes, is the most powerful of the falcon family. It was the Peregrine Falcon that was mostly used in the sport of falconer had times. These birds were difficult to train, and the office of falconer was an knourable and important one. When the quarry was sighted, the bird was unhooded and set free, and after mounting high into the air would dart swiftly down and strike the prey. The heron was the usual victim.

Falculta, a black and white bird only found a Madagnacar, possessing a bill shaped like a sickle.

Madagascar, possessing a bill shaped like a sickle.

Faldatool, formerly a folding stool, but now applied to a small reading desk in cathedrals and other churches at which the litany is recited by the officiating cleric.

Falerman Wine, famed for its place at the banquets of the ancient Romans, was made from grapes grown at Falernus. Virgil, Horaca, and Martial all referred to it with enthusiasm. Wine, famed for its place at the

Fallow Deer received its name from its*fallow or yellow colour. It is smaller than the red-deer, and has cylindrical antiers with palmated ends. It is

has cylindrical antiers with palmated ends. It is native to many parts of Europe, and is a well-known denizen of British parks.

**Falsatte*, in music, refers to the tones of a voice higher than the natural tones. It is more common in males than females, and is seldom used in choir singing except by male altos.

**Familists*, a sect existing in England and Holland in the 16th century, Gounded by Hans Niklas, who advocated the doctrine that religion was a matter of love rather than of faith. love rather than of faith.

averature man of tath.

Fandango, a lively Spanish dance executed by two
persons, who usually mark time with castanets, and
gradually increasing in pace until the dance finishes
in a swift climax.

n a swift climax.

- Rans were used in ancient times in Greece and Rome, but were not much seen in Eugland until after the Conquest, when they were introduced from France. Examples of Egyptian fan-handles are to be seen in the British Museum.
- Fantall, a favourite variety of the domestic pigeon; also a genus of Australian birds of the Muscicapidæ
- Fantasia, the name given to a fanciful musical composition which does not conform to any regular st(ie or series of movements.
- Fantoccini, or marionettes, were first introduced in Italy, where they are still popular. Our English "Punch and Judy" descended from this source.
- "Punch and Judy" descended from this source.

 Fan Tracaery, a complicated style of roof-vaulting, elaborately moulded, in which the lines of the curves in the masonry or other material employed diverge equally in every direction. It is characteristic of the late Perpendicular period of Gothic architecture, and may be seen in excets is 1st. George's Chapel at Windsor and the Chapel of Henry VII, at Westminster Abbey.

Farca is comedy in its broadest form, usually confined to short pieces, and adjusting of free and exaggerated treatment calculated to arouse laughter.

Farmer-General, the name given to any of the numerous aristocrats who in the days of the old French monarchy tarmed certain taxes, contracting to pay the Government a fixed sum yearly, on condition that the specified taxes were collected and appropriated by themselves. The revolution of 1789 swept Farmer-Generals away, and many of them were sent to the guillotine.

were sent to the guillotine.

Farthing, an English com which has been current
from the time of King John, when it was composed
of silver. It was not until the Stuart period that the
farthing was comed in copper. Half-farthings were
comed in 1823, [See Queen Anne's Farthings].

Farthingale, a hoop of whalebone worn beneath
a woman's skirts for the purpose of extending them,
fashionable in the 16th and 17th centures. The
crinoline of the middle part of the 19th century was
a partial revival of the fashion.

Fasces, a badge of office in ancient Rome consisting

Fasces, a badge of office in ancient Rome consisting of a number of rods fastened together with an axehead protructing from them. They were carried in front of the Roman magnitrates on public occasions, and were also used for flogging criminals previous to

- Fascination, a spell-like influence formerly supposed also thought to be a power exercised by snakes over their intended victims, but doubtful even in the
- Fasti Capitolini, marble tablets found in the ruins of the Roman Forum in the 16th century, and containing a list of the Consuls from the year of Rome
- taining a list of the Consuls from the year of Admet 250 to 765.

 **Patalism*, the theory that things are fore-ordained and must happen, as opposed to reason. Orientals are mostly fatalists, but few Europeans of prominence have in modern times allied themselves with the doctrine. Napoleon I., "the man of destiny," was, however, an avowed fatalist, as was Napoleon III.

 **Pata Morgana, the name given to a curious mirage often observed over the Straits of Messina, and supposed to be ruled by the fairy Morgana.

- Fathers of the Church were early writers who may be said to have laid the foundations of Christian ritual and doctrine. The earliest were the Apostolic Fathers, so called because some of them were contemporary with the Apostles. The next in order are the Primitive Fathers of the and and 3rd centuries, including Justin Martyr, Clement of Alexandria, and Teitulian. The later Fathers were of the 4th and 5th centuries, among them being Athanasius, Basil, and Joint Chrysostom. Fathorn, a measure of depth of six feet, used in seasoundings.
- soundings.

 Fatigue-Duty, the routine employment of soldiers distinct from the use of arms.
- fasts are only substances forming the chief adipose tissue of animals. Among the solid neutral fats are spermaceti, lard, and suer, and composed of carbon, hydrogen, and oxygen. Stearm, palmitin, and olein are common forms of fats. Fats that are treated with alkali are saponified,

Fault, a geological term designating a breakage or displacement in the continuity of any rocky strata.

The breakage sometimes amounts to thousands of feet, but ordinarily to not more than a few feet.

Favosites, a knut of fossil coral found in the Silurian,

Devonian, and Carbonilerous strata, and of honeycombed form.

combed torm.

Feathers, the epidermal covering forming the plumage of birds. A feather comprises a main stem or shaft, a supplementary stem or after-shaft, and a series of lateral webs, each of which contains numerous small branches termed barbs. A bird carries various classes of feathers, the two main divisions being the quill feathers of the wings and tail, and the clothing feathers of the body. Feathers are of every variety of colour and of many charges are of every variety of colour and of many charges.

tail, and the clothing feathers of the bods. Feathers are of every variety of colour and of many shapes, the more beautiful of them being extensively utilised in millinery and for other adormments. Ostrich feathers are worth over £40 a pound.

Rebruary, the second month of the year, comprising ordinarily 28 days, but in leap years extending to 20 days. When first introduced into the Roman calendar by Numa about 713 B C., it was made the last month of the year and proceded Jimuary. It was not until 450 B C, that it was made the second month. month.

month.

Feas, in law, are either absolute, that is, when lands are held in five simple for the owner and his heirs for ever; or limited, when the land can only be held by specified heirs or on particular conditions.

Fellbrige, the name of a septemnal testival held in Provence, by writers of the "langue d'oc," to celebrate the trouladours of the Mudle Ages.

Felldes, the scientific name of all manuals of the Carnivore order which walk upon the tips of their toes, and embracing the members of the cat family, from the bun downward.

from the hon downwards.

Fell, a term in weaving indicating the end of a web formed by the last thread of the weft, and in sewing a form of hem in which one edge is folded over the other and secured with stitches; also a rocky upland, usually barren.

usually barren.
Fellahs, or Felaheen, are Egyptian labourers, agricultural chiefty, and form the lowest class of the community, possessing little or no political status. They are of Nuban, Copiuc, and Arab descent.
Felo-de-se. (See Suioide.)
Felony, in law, is any orme of a more serious nature than a nusdemeanour. In former times such an offence were numberally but death and forfeiture of

than a midemeanour. In former times such an offence was punishable by death and forfeiture of lands, but since about the middle of the 19th century the only fcionics involving capital punishment are those of murder and treason.

Felepar, the name given to a group of minerals, silicates of aluminium, and occurring in crystals. It is formed in granite and other rocks of ancient forma-

is formed in grainte and other focks of ancient forma-tion, and is much used in the manufacture of porce-lain. Moonstone is a variety of telspar.

Felt is unwoven wool, hair and fur matted together by poisture and heat, the fibres becoming so closely intertwined that a compact cloth surface is formed. Roofing felt is produced by mixing the material with coal-tar or asphalte.

Falugea, a long narrow vessel with two lateen sails;

occasionally propelled by oars and used on the Mediterranean for carrying light merchandise. Femma Cowers, a legal term designating a married woman who, in consequence of being under the protection and control of her husband, cannot sue or be sued for debt (except as regards her separate pro-perty, legally secured to her), or proceeded against in numor criminal cases because of the presumption that she would act under her husband's compulsion.

Fancibles, a body of volunteer cavalry organised in 1794 for service within the United Kingdom. It comprised over 14,000 men, was of great utility during the invasion pame of that period, and seems to have been the forerunner of the yeomanry cavalry

of later times.

Fenestella, the name given to the niche set apart for the piscina in Roman Catholic churches, and situated on the south side of the altar.

Fenians, an Irish organisation begun about 1855 with the avowed object of establishing a republic in Ireland. The movement spread to the United States, and assumed at one time serious proportions. In 1864 numerous arrests of Fenians were made in Dublin, and in the following year the American Fenians issued a manifesto to the effect that American officers were proceeding to Ireland to organise an army of 200,000 men. A considerable fund was raised in America, and in 1866 an attempt was made to invade Canada by a hand of Fenians, but they were speedily suppressed and the ring-leader arrested. In 1807 two Fenian prisoners were rescued from a prison van at Manchester, when a policeman was shot. The leaders of this attack were arrested, tried, and executed. In the same year a part of the Clerkenwell prison in London was blown up by Fenians in order to effect the rescue of Fenian prisoners inside. The explosion caused the death of some 20 persons, and over 100 were wounded. The organisation continued to give trouble until about organisation chimned to give trouble intil about 1827, when dissensions among the brotherhood brought the movement to an end.

Fenneo, the African Zerda, a small light fawn foslike animal, with a black-tipped tail and large pointed ears. It is not a burrowing animal, but builds its nest in trees, and is of nocturnal habits.

Pennel, a plant cultivated for its aromatic seeds, which are of considerable utility as a medicament, and grown in British gardens for its leaves, for salads and garnishing

Fens are low-lying lands covered with water, or of a boggy or marshy nature. The Fen districts of England are chiefly in Lincolnshire and Cambridgeshire, but in recent times most of the Pen land has been drained and put into cultivation.

Peoffment, an act or deed of transfer by which the tee simple of any specified land is transferred for a consideration from one person to another.

consideration from one person to another.

Ferret, a carnivorous annual of the Pole-cat family, with a pointed head and long, simous body, well adapted for following rabbits and game into their burrows and hiding-places, it being kept in this country for that purpose. It is a native of Spain and Africa, and does not exist in England in a condition of natural freedom.

Petishism, the worshipping of a Fetish, any object supposed to be invested with supernatural powers, and including such objects as a serpent, a bear, a tooth, etc. It has been practised more or less by all primitive races, and is confined at the present day to

few of the savage tribes of Africa.

a few of the savage tribes of Africa.

Paudal Bystem existed in England from the Saxon period down to the end of the 15th century. It was a military and political organisation, based on land tenure, the land being divided into feuds or fiefs, held on condition that certain military duties were performed: and, in default of this, the land reverted to the superior lord. Fendal tenures were aboilshed by statute in England in 1600, although from 1495 they had practically been inoperative. The system was abulished in Scotland in 1749, but in Franceanot until the Revolution of 1789. There was a feudal system in Japan as lately as 1871. until the Revolution of 1789. There was a feudal system in Japan as lately as 1871.

Fou de Joie, the discharge or guns to denote public

Faullicton, a French term applied to a serial story or other light literature occupying the bottom portion of a newspaper page, and adopted in England to some extent in recent years, several of the daily journals now running serial stories as part of their

Fiasco, an Italian word signifying a flask, but applied both in Italy and elsewhere to a complete breakdown or failure in any enterprise, especially in

presented to musical or dramatic performances.

Flat ("Let it be done") a legal term generally applied to a decree, judgment, or warrant commanding a specific thing to be done.

Flore, a thread-like flament, such as that constituting the tissues of animals and plants.

Fibrin, a nitrogenous compound of the proteid class, present in blood, and obtainable by beating the blood with twigs, to which it adheres. It is a white substance composed of carbon, oxygen, hydrogen, and other elements, is involuble in water, but dissolves in solutions of certain neutral salts. There is

ussolves in solutions of cream neutral sats. I dere as a vegetable fibra, extracted from certain grains.

Pibrolite, a white or light grey mineral of a fibrous structure; a sub-silicate of aluminium.

Pidia, a curious kind of very small leaf-beetle, covered with short white hair and very destructive

to grape vines.
Fieldfare, a kind of thrush, a regular winter visitant to this country. It is of a reddish-brown colour with spotted breast and is about ten inches

Field-Marshal, the highest rank title in the British army and only bestowed on royal personages, and generals who have attained great distinction. The first English Field-Marshal was created in 1736, when John, Duke of Argyll, had the title conferred upon lim by George II.

Field-Officer is of military rank hetween a captain and a general, as, major, lieutenant-colonel, and colonel.

Flery Cross, a call to arms used in the Scottish Highlands in olden times, and consisting of a wooden cross that was carried bluzing to and fro

among the clansmen, to rouse them to action.

Fife, a small flute with a compass of about two octaves, ranging from the second "D" above the middle "C." I'lle and drum bands are common in

the army

the army.

Fifth-Monerchy Men, were a fanatical sect which proof unted about 1/45 that the Millennium was near at hand, when Christ would come to earth again and establish the Fifth Universal Monarchy. They were dispersed by Cromwell in 1653, but m 1661 revived and became a menace to the public peace

and 17 of them were arrested and executed.
Fig. a tree common in most hot countries and bearing a fragrint fruit which is much liked as an article of dessert and has a large general consumption.

Figaro, a well known comic chiracter in drama and opera, invented by Beaumarchais, adopted by Mozart,

opera, invented by Beaumar, chair, anopted by Mozar, and the name of a popular paper of Paris
Fighting-Fish, small pugnations Siamese fish with long anals and ventrals of five rays. They are kept in glass globes in Siam, and when brought into contact will fight to the death, these encounters being the occasion of much gambling.

File Fish, a fairly common fish in European waters works found in the Moditerymen but not in

mostly found in the Mediterranean, but not in-frequently off the southern coast of England. It averages from 18 inches to 2 feet in length, and derives its distinguishing name from the toothed character of the dorsal fin.

Fillbuster, a name first given to pirates and buccaneers in the 17th century, who took possession of small islands or lonely coast lands, and there of small islands or lonely coast lands, and there maintined thenselves apart from any governing authority. In later times the term was used to specify men taking part in expeditions whose object was to appropriate "racts of country and settle upon them in disregard of international law. The most notable Expeditions of this kind in modern times were those of Narcisco Lopez against Cuba in 1850-1, and that of William Walker against Sonora in Central America and Nicaragua, between 1853 and 264R. Both leaders were ultimately captured and

Filigree, the name given to a class of ornamental work done with threads of gold or silver, or with fine when and frequently attached to apparel or decorative objects. It was made by the ancient Greeks, and in the Middle Ages was greatly in vogue, and reached a high standard of artistic beauty. It is still made to a considerable extent in certain parts of Italy.

certain parts of Italy.

Pilloque, the part of the Nicene Creed which proclaims that the Holy Ghost emanates jointly from Father and Son, and is Styled the doctrine of the 'double procession.' It is generally accepted in the Western Church, but is rejected in the Greek Church.

Pilser, an apparatus used for clarifying water, and constructed in many different forms, the filtering substances used ranging from sand, charcoal, and sponges to provus stones and fabrics.

Piltration is the process of separating solid matter from a liquid, and the substances used for this purpose include charcoal, fine sand, unsized paper, linen, canvas, etc. The filtration beds used in consection with reservoirs for large water supply

ment, canvas, etc. The intration beas star in con-nection with reservoirs for large water supply purposes are composed of fine and coarse sand, fine and coarse gravel, and large stones. For removing sub-tances which are dissolved, distillation is requisite, and for the still more important filtration for removing bacteria, specially constructed filters, in which a fine earth forms the filtering medium, are necessary.

Finial (archit.), the term employed to designate the ornamental apex of a spire, pinnacle, or gable, and

of Gothic origin,

of Gothic origin,

Fig. a cone-bearing tree with small evergreen leaves
and of considerable use as timber. There are
four leading varieties—the Silver Fir, the Norway
Spruce, the Larch, and the Lebanon Cedar. All
these firs attain to a considerable height, and all yield
turpentine or other resinous material.

Fire Engines, for forcing water upon burning buildings have been known since A.D. 70. In buildings have been known since A.D. 70. In modern times great improvements have been made in these machines, steam power having been stillised with great effect in operating them. Some fire-rigines are capable of throwing out 400 gallons of water a minute to a height of 130 feet, from a hose, the nozzle of which is 14 miches in diameter. Motor fire engines are now much in use, and there is a cannot describe the property of services.

Motor fire engines are now much in use, and there is a general decrease in the number of serious fires as compared with the period when less efficient angines were employed. The London Fire Brigade comprises a staff of 1,363 nen, and is under the control of the County Council.

Fire-Fig. a well known beetle of the Elateridae family which is able to throw out a strong phosphorescent light in the dark. There are some remarkable specimens in tropical countries.

Fire of London, of 1666, extended from East to West, from the Tower to the Temple church, and northward to Holborn Bridge. It broke out in a baker's shop in Pudding Laue, and lasted four days, and destroyed 89 churches, including St. Paul's Cathedral, and many public buildings, among them the Royal Exchange, the Custom House, and the Guildhall. In the rums were involved 13,200 houses, and 400 streets.

Guidnall. In the ruins were involved a process.

Fire-Proof Buildings, are such as are constructed acclusively of non-combustible materials, such as stone, Iron, brick, concrete and cement. To make wood fire-proof a coating of silicate of soda is accessary. Fire-proof materials are "produced in most modern buildings.

Membris." the name of year to a vessel stored with

Firship, the name given to a vessel stored with inflammable and explosive material, and floated into the midst of an opposing fleet to cause destruction and alarm.

Firkin, a former measure of capacity, the fourth part of a barrel, now only used in reference to a small cask or tub for butter, lard, tallow, etc.

Firman, a document of authority issued by Oriental governments granting any special privilege or concession, and when given to a traveller insuring him official protection.
Fiscal Policy. (See Free Trade, p. 914.)

Pisk University, an American institution devoted entirely to coloured students, at Nashville, Tennessee Five-Mile Act, prohibiting dissenting numisters from preaching within five miles of "any corporate town, or of any place where they had preached since the Act of Oblivion, under a penalty of ¿A.c.," was passed in 1665, but repealed in 1665.

Fixed Stars, those which until recently were supposed to maintain perennially their position in the firmament, relatively to each other, and which are still admitted so to do, approximately; thus being contradistinguished from the planets, or wandering stars. They form the luminosities of the constellations.

Flabellum, an ecclesistical fan, formerly employed

stars. They form the luminosities of the constellations. Plabellum, an ecclesiastical fan, formerly employed to drive away files from the chalice during the celebration of the Sacred Mysteries; the flabellum was usually formed of the tail feathers of the peacock. Plagellants were a fanatical sect which sprang into notice at Perouse in the 13th century during a time of plague. They held processions and flogged themselves as they walked naked about the streets until they bled. They declared that sins could not be remitted without such practices. The sect continued down to the right century, in splite of their being declared heretics by Pope Clement VI., and 90 of thom being burnt at the stake.

Flageolet, a sweet-toned musical instrument of wood

Flageolet, a sweet-toned musical instrument of wood riagones, a sweet-toned musical instrument of wood with a mouth-piece, and a tube in which finger-holes and keys are placed. It is an important musical instrument, and is said to have been invented in 1281. There is also a double fiageolet, pro ducing double notes, and played by one mouth-piece.

Fing Officer, a British naval officer who enjoys the matter of carrying a flag at the mass-head of justificial properties.

right of carrying a flag at the mast-head of his ship, and is of the rank of Admiral, Vice-Admiral, or Rear-Admiral. The Admiral's flag fles from the main maxt, the Vice-Admiral's at the fore, and the Rear-Ad mral's at the mizzen.

Add niral state inizzen.

Flagintp, the ship that flies the Admiral's flag, and from which all orders proceed

Flamen were priests of ancient Rome dedicated to the service of particular defines, such as those of

upiter and Mars, and were always of pat

Flamings, a bird of dominant bright red or rose colour, with long stender legs, long sinuous neck, and a huge curved bill. They are picture-que birds, live on worms and mollucc, and are widely dis-tributed, being found in Egypt, in Southern Europe and South America

Flannel. (See Wool.)

Flat, a sign in musical notation (7) indicating that the

note in front of which it appears is to be played or sing a semi-tone lower than its natural sound. Flayin, a dyestuff prepared from querentron bark, producing a bright yellow colour. There is also substance called Flavindin obtained by fusion with otash.

Flax, a textile fibre obtained from the flax plant, which is an annual, and is largely cultivated for com-mercial purposes, being grown in Russa, Germany, Italy, Holland, and the North of Ireland. After undergoing various preparatory processes, the flax is spun into yarn and woven into linen fabrics.

Flea, a genus of parasitic insects possessing a suctorial mouth, from which protrudes a lancet-haped pro bosels, with which it pierces animal skin and draws blood. It is said that the "flea of man" (Fulex

boscis, with which it pierces animals askin and orbidologically blood. It is said that the "fea of man" (Pulex irritans) can leap soo that the "fea of man" (Pulex irritans) can leap soo the six own length.

Fleet. [See Nawy.]

Fleet Prison. a noted debtor's prison that stood in Farringdon Street, London, where the Congregational Memorial Hall now stands, taking its name from the Fleet Ditch. It was pulled down in 826

Flemings, the people of Flanders, whose ancestors of mediarval times greatly excelled in the textile art, and it was to the migration of large numbers of Flemings to this country in the 16th and 17th centuries that England owes its early eminence as a manufacturing nation.

Flour-de-Lie, the former national emblem of France, the flower of the lily. It was superseded by the Tri-colour in 1780, but is still adhered to by the supporters of the old French cyalities.

Flint, a kind of silica of a light grey colour and

excessive hardness, which enabled it to be utilised in the formation of cutting implements in pre-historic times, and, before the invention of lucifer natches, was used slong with steel for striking lights. Fint Implements are fossil objects formed in the earlier geological strata, and constituting evidence of the condition and life of the period. These implements ranged from the unpolished spear and arrow heads of the Palseolithic axe to the highly polished and

ranged from the unpoished spear and arrow heads of the Pialeolithic age to the highly polished and more skilfully formed weapons of the Neolithic period. Pitch of Dunnow, a bacon fitch awarded annually at Dunnow in Essex to any married couple presenting themselves and bringing proof that they have lived in perfect agreement, without quarrel or dispute, for the first year of their inarried life. The customoriginated in the 13th century, and fell into abeyance in the 18th century, but has been revived in recent years.

in recent years. lock, a fibrous material for stuffing mattresses, Flock, a fibrous material for stuffing mattresses, upholstering, etc.; it is made by reducing coarse

woollen rags, waste, etc., to a degree of fineness by machine manipulation. Flodden Field, Battle of (Northumberland), was fought on September oit, 1513, between the English and Scots. James IV. of Scotland, his leading nobles, and ro, 700 of his army were slam. The Earl of Surrey commanded the English forces, and his

less was comparatively small.

Floring a coin first made in France in the 19th century.

The name was afterwards given to an English coin of the value of 6s, issued in 1317. The English from 6t beday represents as, and dates from 1819. Turre

of to-day represents 2s., and cares from 1049. Incre are florins in Germany worth nominally about 2s. 4d. English, Spain 4s. 44d., and Holland 2s. Florist, one who cultivates or is concerned in the cultivation of flowering plants, or one who maintains and yends varieties of the different genera.

Flounder, one of the most familiar of the smaller flat fishes common round the British coasts, and seldom attaining a weight of over three pounds.

Flour, the finely ground meal of any kind of grain,

but more particularly applied to that of wheat.
Fluorine, a chemical element found in combination with calcium or fluor spar, and occurring in manute quantities in certain other nunerals. It was first obtained by Moissan in 1886, and possesses extra-

ordinary corroding properties.

Fluor Spar, a compound of calcium and fluorine, occurring chiefly in connection with silver, tin, lead, and cobalt ores. It is most abundant in Derbyshire, and forms a valuable flux in fusing refractory in merals.

Fitte, a wooden musical instrument of much purity of fone, played by blowing through a mouth-hole, the notes being produced by the media of finger-holes and keys. The flute was familiar to the ancient, but was greatly improved by German and French instrument makers in the 17th and 18th centuries. It has a compass of three octaves.
Fitm, any substance used in assisting the fusion of metals. The fluxes most used for large operations are impostone or fluor-spar, and for smaller purposes, alkaloids, borax, etc. Elack tux is obtained from cream of tartar, and is used mainly for analytical operations, while white flux, used for decomposing minerals, is obtained from carbonates of sodium and not signal min requal portions. Flute, a wooden musical instrument of much purity

potassium in equal portions.

Fly, the popular name given to a large number of insects all of which are distinguished by having a misers an or which are distinguished by having a proboscis terminating in a sucker through which fluid substances can be drawn up. The best-known species are the common house-fly, the blue-bottle fly, and the blow-fly. In the larval form, files are maggets, and feed upon decaying substance, animal flesh, etc. Flies are enabled to walk upon ceilings or upright surfaces by having suckers at the soles of there fore: their feet.

Fly-catcher, the name of a numerous family or birds, of which there are nearly 300 species. They are insect feeders, eatch their food in the air, and are more or less distributed over the world. Two, of them, the spotted fly-catcher and the pied fly-catcher,

are summer visitants of Britain.

Fly-drill, a kind of machine-tool having a reciprocating fly wheel imparting steady momentum; the driving power consisting of a cord winding in reverse

driving power consisting or a cord winding in twenty directions alternately upon a rotating spindle.

Flying Dutchman, a mythical mariner who, as the legend goes, was doomed as an expiation for his crimes to be for ever striving to reach harbour with his ship but never acceeding. Wagner constructed an opera round this weird subject.

an opera round this werd shoped:

Flying Fish are frequently to be seen in southern

waters, and are capable of flying considerable distances—a quarter of a mile or more—without touching

the water. They can be caught in nets while in flight.

Flying Fox, an animal of the Bat family, but of nuch larger size, found schiefly in Africa and Asia. Its habits resemble those of the common bat, except

that it feeds entirely on fruits.

Flying Lerrur, a remarkable family of mammals of which there are only two species, inhabiting Java, Sumatra and Borneo. They have on insects, fruit, and birds, and are provided with a paracluite-like membrane which covers them from the neck to the

tip of the tail, and used in regulating their flight.

Flying Lizard, a kind of Asiatic lizard possessing wing-like projections from each side, which enable it to make flying leaps through the air, though not

sufficient for continuous flight,

suncient for commons ugat,
Flying Machines. (See Aerial Navigation.)
Flying Squirral, an animal, of which there are
several species in Europe and America. It possesses
a parachute-like fold of skin by means of which it
projects tuelf through the air. It is of the true
squirrel type, and belongs to the Sciuridæ zoological classification.

Focus, a word designating the point at which heat or light is concentrated by defraction or reflection. Podder, food stail-fed to horses, cattle, etc., as distinguished from pusture freding; also a weight-standard for lead, equivalent to z cwt, avoirdupos.

Fog is formed of aqueous vapour, or minute globules of water, near the earth's surface, caused by the cooling of the air below the dew-point. Huxley distinguishes tog from cloud thus: "A fog is a cloud resting on the earth; a cloud is a fog floating high in the air." Large towns, and especially London, are most susceptible to logs.

Fogey, an eccentric or old-fashioned person.
Foll, an extremely thin layer of rolled metal, as gold, Folia an extremely thus layer of rolled metal, as good, tu, or lead, according to the purpose for which it is intended. Jewellers use it as a hackground to increase the colour or lustre of mileron precious stones. Any thin substances used for similar purposes—throu use into relief other objects—is termed foil. Tur-foil, as its name unplies, is fin rolled out into tim the ets in the flatting nill.

Fold, an enclosure or pan in which sheep or cattle are

sheltered.

Foliation, a geological term applied to rocks whose component minerals are arranged in parallel layers as the result of strong metamorphic action.

Folio, a puper and printing term applied to paper which is only folded once, a half sheet constituting

a leaf.

a little.

Folk Lore, a term used to denote the beliefs, traditions, legends, customs, and superstitions of the people, and was first suppested by the late Mr. W. J. Thoms, F.S. A., editor of Notes and Querce, in 1866.

Foot, a lineal measure of 12 inches of almost universal

e, and originally adopted from the average length of the human toot. In prosocly a foot is a measure of syllables making rhythinical accent.

Football is one of the most ancient outdoor winter sports, and was in a crude form popular in England in the Middle Ages For modern developments of the game see articles in Pears' Dictionary of Sports and Pastimes.

Foot Guards in the British Army include the Grenadiers, Coldstream, Scots, and Irish Guards, from which the garrisons of London and Windsor are former

are formed.

Forsamilnifera, an order of animals belonging to the sub-kingdom Protozoa, carrying a porous shell, and having gelatinous bodies without definite organs. They are of the most primitive organisation and of minute sire. Thou shells are composed of matters secreted from the water in which they live.

Forbesite, a name given by Kenngott to a hydrous bibasic arseniate of cobait and nickel, found and described by David Forbes, the chemist in the desert of Atacama, in veins in a decomposed dioryte.

desert of Atacama, in veins in a decomposed dioryte.

Porce, as a term in physics, signifies an influence or exertion which, when made to act upon a body, tends to move it if at rest, or to affect or stop its progress if it be already in motion. Gravity, traction, repulsive energy are all physical forces. Moral force is a mental principle.

Porcett in the British Empire. The woodlands of Great Britain comprise of million acres, less than 4 per cent. of the tetal area. Of these, 125,293 acres are national woodland, only about 57,000 acres being under tumber crops. There are some 88,000 square milles of forest under Government protection in India, and 120,000 square milles outside their protect on, besides large private forests. The average net annual revenue of the Indian State forests is over 8 million rupees, and the total number of foresters 8 million rupees, and the total number of foresters employed, including the Imperial Service, provincial, employed, including the Imperial Service, provincial, executive, and pretective, exceeds 10,000. The Government has already planted 120,000 acres of forest in India. Next to India, Cape Colony has done best in forests, and yields fuel and builtung timber, and the Government has planted 30,000 acres in the Orange River Colony planting has been comblenced, and also in the Soudan. The forests of Australia have jarrah trees which grow to the height of 120 feet and kari trees to 200 feet. A Departmental Committee on British Forestry is doing practical work under Governmental auspices, and the Treasury has made evants for lectureships in forestry at various has made grants for lectureships in forestry at various educational centres.

Forgery, the fraudulent imitation of a signature or Porgery, the fraudulent imitation of a signature or writing whereby injury is done to another, or some deceit is practised. Up to well into the 10th century, forgery was punishable with death in England, and at present penal servitude for life is the maximum punishment for forging bills and bank notes. Other classes of forgery entail maximum punishments of 14, 7, or 2 years imprisonment respectively.

Forms, a body of letter-press type, composed and secured for printing from: or a stereotype in a

Forme, a body of letter-press type, composed and secured for printing from; or a stereotype in a similar condition of readiness.

Formic Acid can be obtained from a colourless fluid contied from the bodies of ants, but is insually obtained by heating oxalic acid with glycerine. It is sometimes substituted for vinegar. It also exists in nettles and certain animal liquids.

Forte, a musical term signifying "icud," and represented by the letter "f"; "if" (fortissino) indicating "very loud."

"very loud.

Forth Bridge, which spans the Forth at Queen's Ferry, near Edmburgh, was completed in 1800 at a cost of nearly £2,000,000. It is one and a half miles

Forum, in ancient Rome, was a public meeting place, market or exchange. The Great Forum was place, market or exchange. The Great Form reserved for banquets and gladiatorial contests.

Fossils are nuneral substances of organic origin found in the strata of former ages. They are animal and vegetable and have been the means of disclosing a knowledge of prehistoric periods which would otherwise have been unknown.

Fox, a well-known carmivorous animal of the Vulpine one, a wen-known carnivorous animate or the valuation is amily, found in considerable numbers in most parts of the world. The common fox of Furopo is a burrowing animal of nocturnal habits, living upon birds, rabbits, and domestic poultry, in the capture of which it displays much cunning. The fox in Britain is preserved from extruction chiefly for hunting purposes. Among other notable species, the Arctic fox, and the red fox of North America, may be Arctic fox, and the red fox of North America, may be mentioned.

Fox-Bhark, a large species of shark common in the Atlantic and in the Mediterranean. It is very destructive to small fish, but although it attains a length of fifteen feet it is not to be classed with the

sharks that are dangerous to man.

France, the unit of French currency, and s silver colnequivalent to a hundred centimes, or a little overedd. English.

Franchiae, an incorporeal hereditament, analogous

to the liberty of the subject, in the literal sense; but usually interpreted to mean simply the right of voting in the election of a member of Parliament, Franciscans. [Geo Friars.]
Franciscans. [Geo Friars.]
Franciscans. [Geo Friars.]
Franciscans. [Geo Friars.]
Franco-German Wer lasted from July, 1870, to May, 1871. It was opened by a declaration of war by Napuloon III., and a cry of "A Berlin!" but the Germans, who were much better prepared than the French. won victory after victory. In Seutember cermans, who were much better prepared than the French, won victory after victory. In September Napoleon was made prisoner and after a surrender of 80,000 troops at Sedan, a Republic was then proclaimed, and Paris sustained a four-months siege, in the end France ceded Abace and part of Lorraine to Germany, who claimed a war indemnity of over £200,000,000.

Francolin, a genus of birds of the pheasant family
living in the marshy woodlands of the Black Sea
coasts and in the Island of Cyprus. The Sangune

France-Tireurs, the name given to an irregular body of French troops which came into prominent notice in the Franco-German War of 1870-1.

Frankingense is of two kinds, one being used as incense in certain religious services and obtained from olibanum, an Eastern shrub, the other is a resinous exudation derived from firs and pines, and largely

exuation terries from his and pines, and largery used in pharmacy.

Frankenstein, the hero of the novel of that name by Mrs. Shelley. He is supposed to have been able to construct a living creature from the forces of nature under his control, which creature assumed the form of a monster that became the terror of its cieator's existence.

Franklin, the name given in feudal times to a country landowner who was independent of the territorial lord, and performed many of the minor functions of local

and performed many of the minor functions of local government, serving as magistrate, and so Jorth.

Free Church Federation, established in 1892, is an association of British Nonconformist Churches, formed with the object of promoting the general cause of nonconformity by combined action.

Free Cities. (See Hanneatic League.)

Freehold, a legal term signifying an estate in fee simple, or fee tul, or for life, and to winch no service to a superior (as in cipyliohi) attaches.

Freemasonry dates back to medieval times, if not Freemasonry dates back to medicaval times, if not to a more remote period. It is a secret organisation, having lodges for social enjoyment and mutual assistance. The Grand Lodge of England was established in 1717; that of treland in 1720, and that of Scotland in 1720. Freemasonry is finder the Papal ban, Roman Catholics being prohibited from being Masons.

Freeston), any stone that can be easily worked with

Freeston, any stone that can be easily worked with tools, the term being generally, however, specially applied to fine grained sandstone.

French Ministries of the Third Republic have been as a rile short-lived. That of M Conches (which came to an end in January, 1902) endured for two years, seven months and a few days; that of M. Waldeck Rousweau had a life of three years, and fifteen days, and M. Clemenceau was Fremier 1906. The Ministry of M. Méline held together for two years, one month and sixteen days. The Ministry of shortest duration was that of M. Ribot in June, 1914, which lavied only three days; that of M. Dulaure, in May, 1873, fell on the fifth day of its existence. Next in shortness was the ten days Ministry of Genieral de Rochebouet, in 1897. In February, 1908, M. Rouvier became Frime Minister; in March, 1906, he was succeeded by M. Sarrien. Altogether (up to March, 1906) there were forty-two Frime Ministers of the succeeded by M. Sarrien. Altogether (up to March, 1908) there were forty-two Prime Ministers of the Third Republic. They had formed forty-one Cabinets. In May, 200, M. Aristide Briand became Premier. He was followed in turn by M. Monis and M. Calllaux; and in January, 1912, M. Poincaré acceded; on the latter's election to the Presidentship M. Briand again became Premier, Jan 20, 1913, but his Ministry only lasted until March 18, when M. Barthou succeeded. A fresh shuffling of the ministerial cards took place in June, 1914, when M. Ribot was Premier for three days, being succeeded by M. Vivlani. Fresco, a painting executed upon plaster walls or ceilings, and much in favour for churches and

public buildings in former times. The work is done on damp plaster with prepared pigments. In recent days dry fresco has been largely resorted to.

Freahwater Shrimp, a small crustacean abounding in British streams, and feeding on dead fish or other decomposing matters. Although of shrimplike form, it does not strictly belong to the shrimp order, but is classified as Gaussacras pules.

Friars, members of certain mendicant orders of the Roman Catholic Church. The four chief orders of Friars are the Franciscans or Grey Friars, the Dominicans or Black Friars, the Carmelites or White Friars, and the Augusthians (Austin Friars). In the 13th century a brotherhood of Crutched Friars existed in England, so called from the cross or crossele. existed in England, so called from the cross or creuch worn by them.

Friday, the 6th day of the week, named after Frigga, the wife of Odin. It is the Mohammedan Sabbath, and is a general fast day of the Roman Catholic

Church. According to popular superstition, Friday was an unlucky day.

Friendly Societies were established on a small FIGURE 1 SOCIETIES were established on a small scale towards the close of the 17th century, and were sufficiently numerous in 1793 to be placed to some extent under Parlamentary control. They are now very numerous, and in 1896 an Act was passed consolidating all previous laws regarding them. The Registrar of Friendly Societies is an important Government official, to whom returns have to be made, and who issues an annual report. The most important of existing friendly societies include the Oddlellows, the Foresters, the Druids, the Hearts of Oak, the Rational, the Church Temperance, and the Oak, the Rational, the Church 1 emperance, and the Rechabites, also a temperance organisation. There are about 30,000 friendly societies in the United Kingdom, with a total membership of 15,000,000, and tunds aggregating over sixty-five millions sterling. The Insurance Act of 1911 has linked up with the Friendly Society system by making "approved societies" chamies through which the benefits of the Act can be administered to their members, and a larger accession of members has resulted. large accession of members has resulted.

Friends. (See Quakers.).
Friends. (See Quakers.).
Friends, a small, swift war-vessel, generally with two decks, and carrying a number of guns, usually from 30 to 60. Now superspeded by the amuoured cruiser-Friends-Bird, a web-footed bird widely distributed

over tropical latitudes, and deriving its name from its great expanse of wing and forked tail, which seem to suggest the shape of a swift vessel. It feeds on flying fish mostly, being unable to dive.

Fringillides, the scientific family name of a large class of birds of the Passeres order, including finches,

case of birds of the Passeres order, including finches, sparrows, linnets, grosbeaks, weaver-birds, etc.

Pisians, an old Teuton race formerly settled on lands now covered by the Zuyder Zee. Many of them johed in the Anglo-Saxon invasion of England, and occupied Mercian territory.

Pitilians, the name of a large class of British butterflies, all of them of heautiful colours and marking. There are sever species, the most prized of which is the 'Queen of Spain' vanety.

Frog. a fauliliar amphibitum of interesting structure, breathing through gills in the earlier (tadpole) part of its existence, and through lungs later. It remains three mouths in the tadpole stage. The frog libernates in winter at the bottom of the water.

Froat occurs when the temperature fails to or below 32° F., which is freezing-point.

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Froat occurs when the temperature fails to or below 32° F. and the stage of the stage. The frog libernates in winder and the stage of the stage. The stage of the stage.

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Froat occurs when the temperature fails to or below 32° F. the stage of the

palatable or wholesome than good peaches. They should be ripe, however, but not over-ripe, and may be eatten at any time, though it is better to make them a part of the regular meals. It is a mistaken idea that no fruit should be eatten at brokfis, it indeed it that no true should be exten at Dromainst; indeed it would be far better if people would eat less hacon at broakfast and more fruit. The apple is one of the best fruits. Baked or stewed apples will generally agree with the most delicate digestion, and are an excellent medicine in many cases of indisposition. Green or half-ripe apples stewed and sweetened are pleasant to the taste, cooling, and nourishing. Raw apples are better than liver pills. Oranges are very acceptable to most people; but the orange juice alone should be taken, and the pulp should be rejected. Lemonade is the best beverage in het weather and duning fevers, and when thickened with sugar is better than syrup of squills and other medicines in many cases of coughs. Tomatoes are very beneficial, but the skins should not be eaten. The small seeded fruits, such as blackberries, figs, raspherries, and strawberries may be classed amongst the best medicines. The sugar in them is nutritious, and the acid is cooling and purifying.

Pacaces, an order of shaweds of a leathery structure, with dark spores underlying the fronds, and found both attached to rocks and founting. There is a gelatinous kind which is edible, and is commercially waluable as the source of lodine and as a manure.

Pague, a kind of polyphonic musical composition of a

Fugue, a kind of polyphonic musical composition of a contrapuntal form, in which a theme is enunciated followed up, answered, and intervoven according to prescribed rules. Fugues are of several kinds, named in relation to the character of the theme, as

named in relation to the character of the theme, as diatonic, chromatic, doric, etc. Bach was perhaps the greatest of fugue composers; Handel was also highly effective in fugue writing.

Fulans, a Mahommedan race inhabiting the Soudan, at one time possessing a kingdom in Nugeria, sometimes called the Sokoto Empire.

Fullars' Earth, a special kind of clay or marl possessing highly absorbent qualities, and used from ancient times in the "fulling"—that is, cleaning and felting—of cloth. It is common in certain part of the south of England, and is valued as a skin emollent. Fur—the hairy protective coatting with which Nature

Fur—the hairy protective coating with which Nature has 1 covided numerous animals, especially those of the colder regions—has from time immemorial been the colder regions—has from time immemorial been utilised by mankind for winter clothing. The fur most prized is probably the sable. The best stable comes from East Siberia. It is the hunting of this animal which has opened un so much of the geography of that wild country. The sable is quite a small animal, about 18 inches long, and wearing a historial coat of amber brown hair. In winter its fur becomes chicker, and the soles of its feet are also covered with hair. To avoid spoiling the fur, the hunters catch the sable in traps, and with neist thrown over its hole. Common skins will fetch from £2 in the rough, but good dark ones will bring £20 to £40, and a robe of real sable such as Russian an ricerats wear, may easily cost £10.0. The fur of Royalty is ermine; but to judge by recent fashions, "we are all bora princes" if the wearing of the white fur, which was once the archaisive percentive of sovereigns, has still contributions of the white fur, which was princes" if the wearing of the white fur, which was once the archaise percentage to sovereigns, has still anything to do with that matter. The eminine alive is not "very costly," and as its white winter coat, made into articles of appaiel, or employed for the ornamentation of State rubes, cannot be said to be more becoming than any other furs, it would be interesting to know how the emine first came to be connected with, and adopted at, State functions. There are numerous other animals—the lynx, the beaver, the red fox, the squirrel, the seal, the bear, etc.—all of which contribute to our stock of furs. The north-western portion of the American continent is prolific in fur-bearing animals, and there the The north-western portion of the American continent is prolific in fur-hearing animals, and there the Hudson Bay Company, founded in 1670, has carried on a most profitable enterprise in pelt capture. The originator of the Vanderbilt fortune was a fur trader in the North-West. London, New York, Leipzig, and Nijal Novogorod are the chef fur marts of the world, the fairs at the two last-named places being very important. Fur trading has muny hazards, not the least being that of fashion. It is an old saying that "furs when wanted are diamonds, when not wanted, charcoal."

Purlough.a term designating holiday-leave granted

wanted, charcoal."

Furlough, a tern designating holiday-leave granted to non-commissioned officers and privates in the British Army, or hone holiday-leave given to British officers serving abroad.

Fusel Oll is a resultant of alcohol, the residue left after the desparation of ordinary alcohol from the raw spirit by fermentation. It has a strong odour and a fiery taste, and its consumption produces an injurious effect upon the brain.

Fusible-Plug, a safety-plug placed in the skin of a steam-boiler so as to be melted and allow of the discharge of the contents when a dangerously high temperature is attained.

Fuzil, the old fire-lock which superseded the matchlock in our army, and was fitted with a fint and steel; it was about the length and calibre of the musket, but of lighter construction.

Fusiliers, were originally bodies of foot soldiers

Fusiliers, were originally bothes of foot soldiers carrying fusils, at a tine when archers and pikemen still formed the main part of an army. There is still a British regiment called the Royal Fusiliers.

Fusilian, the name given at various times to different kinds of textile fabrics. Originally fusina was made of innen and cotton; later, wool was used; but in recent times the name has been mainly applied to a twilled cotton material with a map surface.

Fusilio, a kind of dyewood yielding various shades of vallow according to the mordauls used. The tree

wasset, a min or dyewood yieming various stades of yellow according to the mordant used. The tree grows in India, tropical America, and the West Indies. Futurism. (See Post Impressionism.) Fuz-ball, a genus of fungals, including the familiar Lycoperdon Bousta

Gabardine, a long, loose, coarse, over-garment, worn by men of the common class in the Middle Ages, and prescribed by law as the distinctive garment of the Jews.

Gabbatha, the lichrew term for that part of a judgment-hall which was occupied by the governor or supreme authority, and from which he pronounced sentence. Used in John xix. 12, to designate the place where Plate sat at Clinix's trial.

gabbro, a kind of equinottic diallage rock of many varieties, found in the marble regions of Tuscany, contaming a good deal of felspar, and sometimes also serpentine or mica.

Gabbronite, a nuneral of foliated structure, mostly of a greyish colour, and of the appearance of scapolite. It is found in Norway.

Gaberiunzie, the name given to an old-time class of beggar in Scotland, who had heence to ply his "profession" within a prescribed district

Gable, the triangular end of a building, rising above the cornice to its apex. The end wall of a sloping roofed house is called the gable-end; and a gablewindow is a window situated in the gable or con-structed in gable form.

Gabriel Stee, a sect of Anabaptists, founded by Gabriel Schelling, in Pomerania.

Gadly, the name of a family of files with only one pair of wings (deptera), possessing great power of light. The females are very voracious, being able to bite through the skm and suck the blood of animals. The males are harmless, Gadfies are of many species and distributed over the world, Gadolinite, a mineral named after Gadolin, a Finnish chemist, its discoverer. It is a silicate of the

yttrium and cerium metals.

Station and cerum means.

Station and cerum news, and their lunguage, a term in modern days applied only to the Celtic people inhabiting the Highlands of Scotland, but formerly used also in regard to the Celts of Ireland and the 1sle of Man.

and the Isle of Man.

Gag, a word of modern stage slang referring to dialogue or expressions other than the author's words, introduced into a play by an actor, and usually indulged in by comedians for raising a laugh Gahntie, a dark mineral substance of the spinel group, an oxide of zinc and alumina, or an sammate of zinc. Sometimes called zinc-spinel. Called after Galna, a Swedish chemist.

Galna, a Saulptured Sourse, the upper mart of which

Galna, a Swedish chemist.

Galna, a sculptured figure, the upper part of which
is in natural form and outline, and the lower part
(except sometimes the feet) is some simple architectural feature seeming to envelop the body and
legs. The gaine was often used in ancient Greek
and Egyptian architecture.

Galactite, a stone found in Scotland, yierding, when
moistened and rubbed, a milk-like juice.

Calago, a sort of lenner, nature to Africa, large-eyed,
in teaching with its necumal characteristics.

in keeping with its nocturnal characteristics.

Galatians, St. Paul's Epistle to the, is supposed to have been written by the Apostic about A.D. 36. It was addressed to the Galatian Churches, and, in addition to supporting Pam's apostolic authority, advocated justification by faith.

Galaxy, the Milky way, the part of the heavens which, in Milton's words, is "powdered with stars."

Galana, sulphide of lead, and one of the commonest of minerals. One varety carries silver.

Galena, sulphide of lead, and one of the commonest of minerals. One variety carries silver Galerites, a genus of echunodis, or fossil seaurchins, found in the chalk formation.
Galidia, a kind of ichneumon (G. degans) peculiar to Madagascar, valuable for its fur, which in some varieties is beautifully striped; it is easily tamed, and serviceable as a destroyer of vermin.
Gall, a vegetable growth, the result of an egg-deposit on leaves or bark by a class of insects very widely distributed. As they appear on pask, they are called

distributed. As they appear on calls they are called oak-apples. They are nearly spherical in form, indorous, have a bitter taste, and vary in colour from blue to deep olive and black. They yield an acid which is of value for dyeing, ranning, and other commercial purposes.

Galleon, the name given to the old three-decked Spanish treasure vessels employed in conveying the precious minerals from the American colonies to Spain.

Galley, an our-propolled sca-boat used by the ancient Greeks and Rumans for transport purposes, manned by slaves Boats of a similar class were used by the French down to the middle of the 18th century, and minned by convicts.

Gallio Acid, obtained from gall nuts, sumach, tea, coffee, and the seeds of the mango, is used in the manufacture of inks and as an astringent in medicine
It is odourless, has a bitter taste, and is mostly of a
pale yellow colour.

Gallium, a malleable metal of a greyish-white colour,

discovered in 1875 by Lecoq de Bolslandran in zinc-blende substances it the Pyrences, but only obtained in minute quantities. It is classed between aluminium and zuic.

Gall Moth, a species of insect, the larvæ of which live in the stems of plants and produce gall-nodes. Gallopærdix, a kind of particles, found in the hilly regions of India and Coylon. There are three species, Gallows, a wooden erection consisting of two posts usinows, a wooden erection consisting of two posts surnounted by a cross-beam, suspended from which is a rope used for hanging criminals. Sometimes it takes the form of a single projecting wooden beam, which serves to carry the rope Galvanised Iron is iron coated with zinc and other substances, but in no form galvanised, therefore

wrongly named.

Galvanism is the branch of electricity which deals with electric currents produced by chemical action, and named after its discoverer, Aloysius Galvani.

Gambeson, a protective garment of leather or padded material, reaching from the neck to the knees, worn by soldiers prior to the introduction of plate-armour, and also, as a modified surcoat, beneath the hauberk.

Gamboge, a resmous gum obtained from certain trees in Siam, Cochin China, Ceylon, and other hot countries, and much used for producing a yellow pigment, as well as a medicinal purgative, though

too drastic to be used alone.

too drastic to be used alone.

Game is the term applied to wild animals which are protected from indiscriminate slaughter by Game Laws. In the United Kingdom game comprehends deer, hares, pheasants, partridges, grouse, black game, moor game, woodcocks, busturily, and certain other birds and animals of the chase. Game can only öther birds and animals of the chase. Game can only be killed (with few exceptions) by persons holding game licenses, which cost £3 a year. Uccupiers of land and one other person authorised by them in each case are allowed to kill hares and rabbits on their land without license. Game cannot be soid except by a porson holding a proper license. There is a "close time" prescribed for the different classes of game, during which period they cannot be legally Rilled or sold, and it is not lawful to kill game on a Sunday or Christmas Day. Grouse cannot be shot between Decomber 1rth and August 1rth; partidges between February 2nd and August 31st; pheasants between February and and September 30th; and black game between December 11th and August 20th. black game between December rith and August son. In regard to foxes, stags, and otters, custom and not Parlament prescribes a certain law which sportsmen "adhere to. The fox-hunting season is from November set to April 181; stag-hunting from August 22th to October 12th; and otter hunting from April 1812. to September.

to September.

Gaming, or Gambling—..e., staking money on the chances of a game—differs from bettiny in that it depends upon the result of a trial of skill or a turn of chance. Gambling has long since been illegal in Britain, and no public gaming houses have existed licre since the early part of the 19th century. The only place in Europe where gaming is skill carried on by the sanction of the law is at Monte Carlo. Nevertheless, in many semi-public places and at some clubs gambling is indulged in to a considerable extent. A gambling debt cannot be recovered at law, but is simply "a debt of honour."

Gamut is the musical scale of lines and spaces upon which are written the notes of nusue designated by

which are written the notes of inusic designated by

the first seven letters of the alphabet.

Ganga, the pin-tailed sand-grouse, a handsome bird mostly found in North-Western Africa.

Gangue, a term applied to non-metalliferous minerals

found in mineral veins and often called vein-stone.

Quartz is the most prevalent of these vein-stone Quartz is time most prevaient of these voluntaness. Cangway, a marrow passage running across the House of Commons, and dividing the seats on each side into two parts. Above this gangway, and nearer towards the clair, so the principal member, Miaisters and ex-Ministers, the former on the Speaker's right, the latter to his left. Below the gangway six independent members.

gangway at independent members.

Gannet, the name of a genus of birds of the pelican family; is found in large numbers off the coast of Scotland, and having breeding stations in the Hebrides, Sr. Kilda, Atlas Craig, and the Bass Rock, It is a bird of winte plumage, and weights about 7 lbs. Its common name is the Solan goose.

Garancin is a dye substance obtained from madder with the charge life.

root by chemical treatment, but in recent times has

been superseded by alizarm,

Garden Cities, have been established in various parts of the country with considerable promise of duccess. The first and most extensive of these was formed at Letchworth, near Hitchin, in 1899. It comprises nearly 4,000 acres, and is controlled by a company with a capital of £300,000, and shows a company with a capital of 1,300,000, and shows a prosperious working community hving and labouring under morally and physically healthy conditions. The idea is an adaptation to modern ideas of the model of the great part of certain industrial philanthropists such as Sult, Richardson, Cadbury, Lever, and others. The Hampstead Garden Suburb is a successful experiment in the some description. ment in the same direction.

Gardener-Bird, a bird possessing many of the characteristics of the bower-bird, and found only in

New Gumea

Gargantus, the giant hero of Rabelas' satire, of minense eating and drinking capacity, symbolical of an antagonistic ideal of the greed of the Church

Garcoyle, a projecting spout for carrying off water from the roof gutter of a building. It is only found in old structures, modern water-pipe systems I iving rendered them unnecessary. At first gargoyles were only plain spouts through which the water was discharged well away from the wall. Later, they were turned to architectural account and Later, they were turned to architectural account and made to take all knads of grotesque forms—grinning goblins, indeous morsters, dragons, and so forth. The effect of rows of these fantastic figures projecting from some of the old ecclesiastical buildings, castles, etc., is often weird and strange.

Garlbaidl, a kind of blous-racke, formerly a good deal worn by women, and so styled because of its re-emblance to the slarts worn by the Italian Parties and his soldiery.

Garlia, a bulloon plant of the onion tribe, and a favourite

condiment among the people of Southern Europe. It possesses a very strong odour and is used largely for medicinal purposes.

Garner, a granary, or store-house for corn.

Garnet is the name of a precious stone varying in colour, but mostly red. The finest garnets are of a

bloodered and transparent.

Garnishee, a person who has received legal notice not to pay away sequestrated monies owing by him to

a third party.

Garrison, a body of soldiery stationed in a fortified place to defend it against a fee, or to keep the surrounding population in subjection; also such a fort, manned with troops, guns, etc.

fort, manned with troops, guns, etc.

GaFFOs, the name of a species of wild duck, widely
distributed over the Arctic regions, and a winter
visitant to the northerp parts of Britain. It is
distinguished by having a large white spot in front of
each eye on a dark ground.

GaFFOSA, a method of strangulation adapted as
capital purshment in Spain, and consisting of a
collar which is compressed by a screw that causes
death by piercing the spinal marrow. Garroting
was also applied to a system of highway robbery
common in England soone years ago, the assalants
seizing their victures from behind and by a sudden
compression of the wintinge disabling them until compression of the windpipe disabling them until

compression or rise windings disabiling them and the robberty was completed.

Garter, Order of the. Was established by Edward III in 1349 and is the premier order of kinglithood in Great Britain, limited to the Sovereign, the Prince of Wales, such descendants of George I as may be elected members, and twenty-George I as may be elected members, and twenty-five kinght companions. Queen Alexandra is a Lady of the Order. The traditional story of the origin of this order is well known. Edward III is still to have picked up a gatter dropped by the Countees of Salisbury at a ball, when his Majesty put it round his own knee with the remark. Hom soit qui mally pense." The misgina of the order are blue and gold worr out the left leg below the knee, and the vestments and badge, the latter are of great misginificance. negrancence.

magnish ence.

Gas is an elastic finid substance, the molecules of which are in constant motion, and exerting pressure. Any gas can be reduced to the liquid form by increasing pressure and diminishing temperature. Hydrogen, oxygen, and introgen were formerly regarded as "hate gases," but they have been liquided. The definition of gases by Clerk Maswell is as follows: "Gases are distinguished from other forms of matter, not only by their power of indefinite expansion, or as to full any vessel, however large, and by the great effice which heat has in dilating them, but by the uniformity and simplicity of the laws which regulate their changes."

Gas from Coal for lighting purposes is obtained

Gas from Coal for lighting purposes is obtained from bitiminuous coal, or from a mixture of such coal

and cannel. Such a gas was produced and us illuminsting purposes by William Murdoch to the end or the 18th century in Birmingham, and about 1807 the illuminant was introduced in London, one side of Pall Mall being lighted with it. After that it soon supplanted oil and candles for outdoor and indoor lighting, and is still, in spite of the advance of electric light, the most general illuminant. its power having been greatly increased in recent times by the me indescent burner.

Gas-Engine, invented in principle by a French workman over a hundred years ago, and greatly unproved by Signiers, Crossley, and others, in more recent times. Its power is obtained by a mixture of gas, and ar, compressed, gnited, expanded and revet d successively. Heat is produced by gases of various knd—coal gas, natural gas, petroleum, etc. At first, gas engines were only constructed of small size, but are now built of considerable magnatude

sace, our are now ount or considerable magnitude and power, and effect a great saving of fuel. Gastropacha, a genus at lepidopterous nsects of the Bombyedde family, including the lapper moth. Gastropada, a tanily of Molluscs, which includes all such as possess a univalve shell—snails, whelks, huntes, etc. himpets, etc

artificial opening into the stomach for the introduc-tion of aliment in the case of obstruction of stricture,

Gate House, a structure built over and flanking a gateway, and common in ancient times at the more

important entrances of a city, castle, monastery, abbey, or college. The only example left in London is St. John's Cateway, in Clerkenell, but many still remain in the old continental cities, and some are of

remain in the out comment claes, and some are of great architectural beauty.

Gate of Justice, in mediaval times, was the place where a king, feudal lord, or judge sat to redress grievances and deal out justice. It was situated sometimes at the city gate, in front of the temple or other public place, and where no actual gate existed, the judgment seat was enclosed in a structure that successed ontes.

other public place, and where no actual gate existed, the ludgment seat was enclosed in a structure that suggested gates.

Gauchos are South Americans of Spanish descent, and of a wild and fearless disposition. They are mostly employed in the management of cattle, and are noted for their skill in the saddle, and for their lasso throwing. Their numbers grow less you year to year, and as the pampas comes more under modern European control their existence as a distinct class will gradually dwindle away.

Gauge, a standard dimension or measurement, applied in various branches of construction. Thus, in railways we have the standard distance of 4 feet 8½ inches between the rails, and this is the ordurary narrow gauge in most countries. In the United States the standard gauge is 6 feet. The old 7 feet gauge adopted by the Great Western Railway was chandoned some years ago. The gauge for Indian lines is 5 feet 6 inches. Narrow railway gauges of different standards are in use on very steep inclines in various countries. Other standard gauges are fixed in building, gun-borning, and other operations.

Gauls were inhalitants of ancient Gaul, the country which comprised what is now France, Beigum, and parts of the Netherlands, Switzerland, and Germany.

Gault, a blue clay deposit found in the upper cretaceous rocks, and of marine form.

Gauntlet, a glove of armour, worn in the 12th and 18th centuries as a sort of mitten, and attached to the

Gauntlet, a glove of armour, worn in the 12th and 13th centuries as a sort of mitten, and attached to the sleeve of the hanberk. In the 14th century gauntlets were made of mail, and later of hammered steel with separated and jointed fingers.

separated and pointed fingers. Guatama, one of the names of Guddha.
Gauze, a thin, transparent material made of silk combined with cotton, linen, or hemp, and plain or figured. There are also gauzes of fiannel, lace, ribbon, and wire.

ribbon, and wire.

Gavel, enough grain in the straw to form a sheaf, into which it is converted by binding.

Gavelkind, an old English custom of land tenure obtaining in Kent and a few other places in England, whereby on the death, intestate, of a property owner, his property is divided equally amongst his children and not according to the law of Primogenture.

Gavial, the crocodile of the Ganges, feeding chiefly on fish, and not infrequently given to attack mankind; it reaches a great length when fully grown, exceeding so feet, and has very long thin jaws, sub-cylindrical and dillated at the end.

Gawal, a kind of wild ox about the size of an English

Gayal, a kind of wild ox about the size of an English Gaysl, a kind of wild ox about the size of an English bull. A native of Fastern India, and easily domesticated. The Hindus hold it in great reverence, making use of its milk, but not subjecting it to labour. Gaydiang, a junk-like, Annamese vessel, with two or three masts and triangular sails, carrying cargo from Cambodia to the Gulf of Tonkin.

Gazelle, an animal of the antelope family, of small and

delicate shape, with large eyes and short cylindrical horns. It is of a fawn colour, a native of North Africa and easily domesticated.

Africa and easily domesticated.

Seeke, the name of a family of lurid-hued lizards, common in and near the tropics. The are of nocturnal habits and feed on insects, and though by some accounted venomous, they are harmless.

Geor, a Semutic or Arabic dialect, or language-variant, surviving in the ecclesiastical literature and speech of Abyssiuia, and still spoken by some of the natives of the province of Tigre, but mostly superseded by the Ambaric.

the Amharic Beissler's Tubes are used for producing light by an electric discharge through rarefied gases. The tube is sealed, and the electric spark is transmitted by means of platnum connections at each end. Geissler, the inventor, was a native of Bonn. Gelada, the name of an Abyssinian baboon, possessing a large mane and tong tutted tail. It is of a dark brown colour, and is closely allied to Hamadryas. Gelalisas Era, an era introduced by and name daker Gelalisability, Sultan of Khorassin, and com-

mencing March 4th, 1079 A.D.

mencing March 4th, 1079 A.D.

Gelatine, a transparent, tasteless, organic substance
obtained from animal membranes, bones, tendons,
etc., by boiling in water. It is of various kinds,
according to the substances used in making it.
Linglass, the purest form of it, is made from sirbladders and other membranes of fish, while the
coarser kind-glue-is made from hoofs, skin, hides,
etc. Its constituents are carbon, hydrogen, oxygen,
and intropen. Colatine is of creat utility. and are and nitrogen. Gelatine is of great utility, and applied to an immense variety of purposes, from the

piled to an immense variety of purposes, from the making of food jellies to substances for photography. Gelsemium, a wild jasmine grown in the United States and bearing yellow flowers of convolvulus shape. A thicture prepared from the root of this plant is a valuable medicine in small doses, but in over doses produces paralysis of the respiratory muscles. Gemini, one of the signs of the Zodiac lying east of Taurus and containing numerous stars, only two of which—Castor, the upper and brighter one, and Pollux the lower one—are visible to the naked eye. The stars are named after twin divinities of the classical mythology.

Genabok, a large South African anterior with long straight horns and tufted tail. Light fawn is colour, it has a black streak across its face, and is

very fleet of foot.

Gems are precious stones cut and polished for wearing as jewellery.

as lewellery.

Gender is a sort of sexual distinction grammarians give to nouns or pronouns. Thus, in English, we have the masculine (malel, fennmine (fernalc), and neuter (no sex) genders. The French language has only the masculine and feminine genders, rendering gender classification difficult and complicated. In modern Persian there is no gender distinction.

Genealogy, is the science of family descent, treating of ancestors and their descendants in various branches in the natural order of succession. Pedigrees of the principal families in Great Britain are recorded at Heralds' College.

General, a military title next in rank to that of

Figure 2. Figure 2. Figure 2. Figure 2. Figure 2. Field-Marshal, the highest officer in the army. Ranking below full General are Lieutenant-General, Major-General, and Brigadier-General.

Generation, the average lifetime of persons who live beyond infancy is reckoned at about thirty years. The average of all who are born does not amount to more than seventeen years.

Generation, Spontaneous.

genesis.)
Genesis the first book of the Pentateuch, which carries the Scriptural narrative from the Creation to the death of Joseph.

the death of joseph.

Genet, one of the smaller carnivorous animals about
the size of a cat, but with longer tail, and spotted
body. It is a native of Southern Europe. North
Africa, and Western Asia, and is valued for its fine

soft fir, and also for a perfume it produces, so me me soft fir, and also for a perfume it produces, Geneva Convention was a convention signed at the holding of a conference of representatives of the leading European powers in 1864, whereby the neutrality of ambulances, hospitals, sanitary officers, leading European powers in toward program provides and the service and toward and others engaged in succouring the sick and wounded was guaranteed. All persons employed in such service are required to wear a Geneva cross—red cross on a white ground—as a badge of office.

Gantli, fabulous beings, regarded by the Arabs as between mankind and the angels, capable of becoming invisible at will, or assiming any shape.

Gentie, an ancient sect of Jews spoken of by Purchas in the Pilgriange as claiming to be of the pure stock of Abraham, by reason of their not having "taken strange wives."

Genoutiliares, ancient metal caps for covering the knees of an armed man: an example may be seen on the Black Prince's monument in Canterbury Cathedral.

Cathedral.

Genre, an art term used to describe a style of painting which deals with subjects of homely life, but also applied in France in connection with other kinds of paintings as Janre du paysage (landscape painting), Janre historique (historical painting), etc.

Gens, a group term used by the ancient Romans to designate the kindred or connections of any particular family, but only used in regard to the members of a noble family. The modern word clan most nearly corresponds with gens.

Genthica, a silicate of nickel and magnesium, found

Genthite, a silicate of nickel and magnesium, found in stalactite formations in certain parts of Pennsyl-

m state the formations in certain parts of reimay-vania, and named after its discoverer, Dr. Genth. Gentian, the name for a species of plants of the Gentianz genus. Gentian root is of great value in pharma y, and from it a valuable bitter is made and used as a tonic.

- Gentian Root, the dried root of the Gentiana inita, much used in pharmacy as a tonic. The plant bears clusters of mostly blue flowers, and the most valuable species commercially are those of central and southern Europe.
- Gentile, a term used in the Scriptures to designate
- Gentile, a term used in the Scriptures to designate any person who is not a lew.

 Gentleman-at-Arms, one of a company of military esquires forming the sovereign's bodyguard. They number in England some 40 gentlemen and 6 officers, and their duty is to attend the King on all special occasions. The Captain receives £1,200 a year, and each of the "gentlemen" £70 a year.

 Genus, a term applied in biology to designate any kind sort or class of species.

- year, and each of the "gentlemen" Lyo a year.

 Genus, a term applied in biology to designate any kind, sort, or class of species.

 Geodesy, the art of calculating the configuration and extent of the earth's surface, and determining exact geographical positions and directions, with variations of gravity, etc. In former times the term geodesy wa, applied to land-surveying in general.

 Geogeny, the science of the earth's formation in its relation to the solar system, and of practically the same meaning as cosmogony.

 Geography, the science which describes the earth's surface, its physical peculiarities, and the distribution of the vanous animals and plants upon it. It is usual to divide the subject into two main branchesphysical geography, which deals with the composition of the earth's surface and the distribution of its living occupants, animate and inanimate; and political geography, which deals with the composition of the earth, animate and inanimate; and political geography, which deals with the condition and structure of the earth, and the evidences afforded of ancient forms of life. The various periods and sub-periods of geological classification as at present defined are:—Primary, or l'al-vozuc: Secondary, or Mesozoic; Tertiary, or Camozoic; and Post-tertiary.
- tertiary.

 Geometrical Progression is a *erm used to indicate numbers which increase or decrease at an equal
- cate numbers winch increase or decrease at an equi-ratio—43, 9, 27; or 27, 9, 3.

 Geometry is the branch of mathematics which demonstrates the properties of figures, and the dis-tances of points of space from each other by means of deduction It is a science of reason from funda-mental axioms, and was perfected by Euclid about 300 B.C. The books of Euclid contain a full elucida-

mental axioms, and was, produced a full elucidation of the science, though supplemented in modern
times by Descartes, Newton, and Carnot.

George-Noble. a gold coin of the value of 6s. 8d.,
receiving its name from the St. George depicted on
its obverse. First issued in the reign of Henry VIII.
German Ellwar, an alloy of copper, and, and
nickel, and much used in the manufacture of tablemare such as snoons, forks, etc.

nickel, and much used in the manufacture of tableware, such as spoons, forks, etc.
Germ Theory, the biological doctrine which holds
that living matter cannot be generated from nonhving matter, but must spring from germs or seeds.
In medicine it demonstrates that a protic diseases
are due to the presence of bacterial germs.
Gesta Romanorum, a collection of stories published in the Middle Ages, and of unknown origin.
It was greatly laid under contribution by our earlier
writers, who found many romantic incidents and
legands which they were able to turn to good account.
The collection circulated over Europe, and is

believed to have been written by a monk, Pierre Bercheur, of the convent of St. Eloi, Paris. Gest&tion, the carrying of young in animals during pregnancy, varies considerably in its length. In the case of an elephant, the period is 27 months; a camel, 22 months; a cat, 8 weeks; a horse, 48 weeks; a dog, 9 weeks; and a pig, 16 weeks. Hers "ist" for 21 days; geese, 20; swans, 42; turkeys, 58. A pigeon only "sits" it, days. Gestneemane was at the foot of the Mount of Olives; can Paris" Decrease of the Mount of Olives;

Gathaemane was at the toor of the Mount of Curves; see Pears Dictionerry of the World.
Gaysars, hot springs of volcanic origination, and action, are remarkable for the fact that they throw out huge streams of boiling water instead of lava as in the case of a volcano. The most tamous geysers are those of Icciand which number over a hundred, are those of iceland which number over a hundred, the principal ore having an opening 70 feet in diameter and discharging a column of water to a height of 200 feet. There are also geysers in the Yellowstone region of America, and some in New Zealand.

Region of America, and some in two Zealand.

(Bhat, a river landing-piace or stairway, in India, above which there is usually a temple, or pagoda, and sometimes a space set apart for rest; "ghaut," another form of the word, means a mountain pass in

the Mahratta tongue.

Ghee, a kind of butter much used in the East Indies and made from coagulated milk. It will keps sweet for a long time when properly prepared. Ghetto, the name given to the Jewish quarter in any city or town, but more especially applied to

such quarters in Italy.

- such quarters in Italy.

 Ghost-Moch, an interesting nocturnal insect (Hippalus humuli), common in England, possessing in the male a white collar and known for its habit of hovering with a pendulum-like action in the twinght over a particular spot where the female is concealed. Ghurkas, or Goorkas, are a native indian military force of sturdy fighters forming a brave and useful force. They are natives of Nepaul.

 Giambeaux, metal armour for the legs and shins, worn by the warnors of Richard III; return.

worn by the warriors of Richard Il's reign

- Giants, men of abnormal stature and bulk, have been met with in all nees, but it may be doubted whether ever any actual race of giants has existed, except in mythological fable.
- Gibbet, a kind of wooden gallows with a projecting arts from which in former times criminals were hung
- in charts and left to decay.

 Gibbon, the name of a long-armed ape, inhabiting the East Indian Archipelago mainly. It is without tail, and hyssesses the power of very rapid movement among the trees of the forests.
- movement among the trees of the forests.

 Gifford Lectures, on natural Kehgion, are restricted to the four Scotch Universities, and were established by Lord Gifford with a grant of 260,000 for the lectureships. The lecturers are absolved from religious test of any kind.

 Gilbertines were members of a religious order of monks and nous founded by St. Gilbert in the rath century, but did not spread beyond Fingland. There were as Gilbertine monasteries at the time of the
- were 25 Gilbertine monasteries at the time of the suppression of those institutions.

- Gimp, a narrow trimming of worsted or silk cord, largely used for edging to gowns, drapories, etc. Gimp-Machine, a narrow-warp toom (tevigned to catch the woof and form loops or patterns, the gimp-cords of variant sises being carried by independent
- cords of variant sizes being carried by independent needles or shuttles.

 Gin, a well-known spirit distilled from malt or barley and flavoured with jumper-lerries. The purest gin is that of the Holland's vanety, produced mainly at Schiedam. English gin is less pure, often containing flavouring substances that detract from the quality of the spirit. Gin is frequently recommended as beneficial in urinary troubles.

 Ginger is obtained from a reed-like perennial plant grown in tropical countries. There are two varieties, black ginger and grey ginger. The former is obtained by peeling and drying the root, the latter by scaliding and drying. Ginger is largely used as a condument.

 Gingham, an ordinary kind of cotton fabric, dyed,
- Gingham, an ordinary kind of cotton fabric, dyed, plain, or figured, which received its name from being originally manufactured in Guingamp in Brittany.

Ginseng, a plant whose forked root is greatly valued as a tonic and stimulant by the Chinese. The Man-churian variety is considered the best, and fetches a high price; a plant of an allied species grows in America, and its root is exported to Chna and sold as ginseng. In spite of the almost miraculous virtues ascribed to ginseng by the Chinese, it has really but little medicinal value.

Gipon (or Jupon), a tight-fitting vest or cassock; an old French term.

Gipsies are a nonadic race, supposed to be descended from some East Indian tribe. Their language, Romany, is certainly a Hindu dialect mixed with other tongues. They are spread over many parts of the world but are most common in Europe, having appeared in the Eastern portions of the Continent about the 14th century, finding their way to England at the beginning of the roth century. They give evidence of their Eastern origin in their dark skins, large black eyes, black hair, and pearly white teeth. They are born wanderers, and pass from place to place following certain small occupations such as place following certain small occupations such as tinkering, basket-making, and the like, while some of the men are clever as horsedealers, and some of the women pose as fortune-tellers. They do not seem to have any religious creed, nor are they regarded as particularly honest. In England gipses are not very alimerous at this day, the enclosure of land and stricter methods of dealing with vagrants having made it mented difficult for them to find resting places. Giraffe, the tallest of existent animals, reaching a height of from 18 to 20 feet when full grown. Its sloping back and elongated neck seem to be the natural evolution of an animal that has to feed on the branches of trees. It is a native of Africa, is of a light fawn colour marked with darker soots, and has

light fawn colour marked with darker spots, and has

a prehensile tongue.

Girandole, a branching chandelier, or swing-armed candelabrum.

Girasol, a mineral of the opal variety. Of a bluishwhite colour, with a red reflection under a bright light.
Girondists, one of the prominent parties of the early period of the first French Revolution. They were Moderates, and up to 1902 were a strong party. Their first leaders were from the department of Gironde, hence their name. With the Reign of Terror their influence came to an end, Robespierre and his patry overthrew them, most of them being sent to the guillotine.

Girton College, founded at Hitchin in 1850, and removed to Cambridge middle, is the leading English training college for women, accommodates about 130 students, whose educational course covers three years. The tenching includes nearly all the higher branches of education.

Leo per annum. white colour, with a red reflection under a bright light.

Giscial Epoch was the period when northern Europe, neduding part of Britain, was covered with ice, strong geological testinony of the epoch being the period with the period being the period being the period with the per found in the many fossil remains which have been discovered, in the Tertiary formation, of animals such as only exist to-day in Arctic regions.

Glaciers form in the higher Alpine ranges, and are

immense consolidated masses of snow, which are gradually impelled by their own force down the mountain sides until they reach a point where the temperature causes them to melt, and they run of m temperature causes them to melt, and they run off m streams. From such placiers the five great rivers, the Rhine, the Po, the Rhoue, the Inn, and the Adige have their source. The longest of the Swiss Glaciers is the Gross Aletsch, which sametimes extends over ten miles. Some of the glaciers of the Himalayas are four times as long. The Murr in Alaska is of enormous magnitude, and that of Justeldals Brae in Norway is the largest in Europe. Glacier-walley, a vale, the essential factor in the formation of which has been glacial-action. Glacies, a sloping bank of fortification forming a parapet to the covered way, and serving to expose besiegers to the line of fire.

Glade, an open space in a forest.

Gladiators were professional athletes and com-batants in ancient Rome, contesting with each other or with wild beasts. At first they were drawn from

the slave and prisoner classes exclusively, but so much were the successful gladiators held in esteem that men came to make a profession of athletics, and gladiatorial training schools were established. When gladiatorial training schools were established. When a gladiator was vanquished without being killed in combat, it was left with the spectators to decide his fate, death being voted by their hands being held out with the thumb turned inward, and life by putting the combat hands to be the stable of the combat forth their hands with the thumb extended. Gladia-torial shows were the chief public displays in Rome from the 3rd century B C. to the 4th century A.D.

from the 3rd century B.C. to the 4th century A.D. Glands are secretory organs whereby certain natural matters, such as urine, milk, bile, saliva, sweat, tears, etc., are drawn from or distributed over the system. Such of the matters as undergo rapid glandular expulsion, as urine, etc., are termed exceptions, while such as are utilised in promoting the performance of the functions of digestion or milk-production are called secretions. Glands are composed of numberless minute secreting cells, arranged in simple or compound vesicles. In man, the chief glands are the

less minute secreting cells, arranged in simple or compound vesicles. In man, the clief glands are the liver, the pancreas, kidneys, and salivary glands Glasgow University, founded by Pope Nicholas V in 1451, had a new charter granted to it in 1577 by James VI of Scotland, and in 1862 and 1889 was remodelled by the Universities (Scotland) Acts. It has usually over 2,000 students, including women. Glass, a substance obtained from the fusion of a combination of silica with various bases, and is more or less transparent. There are numerous kinds of glass, but they group themselves under one or other of the following classifications:—Flint glass or crystal, of the following classifications :- Flint glass or crystal, whose components are potash, silica, and oxide o whose components are potash, silica, and oxide of lead; window glass, made from soda, line, and silica; Boheman glass, containing potash, line, and silica; and bottle glass, composed of soda, line, alumina, silica, and oxide of iron. Glass was made by the Phoenicians, and was familiar in ancient Egypt. The Fgyptians introduced it into Rome. In the Middle Ages Venice was famed for its glass propulated by the state of the state entire. manufactures, but after the 17th century Bohemia acquired pre-eminence in the same style of the industry. Window glass was not used in this country

industry. Window glass was not used in this country unto allow the 7th century.

Glass-Snake.—What is so called is really a lizard, with a long, smuous tail, which has the faculty of regrowth if broken off. It is an inhabitant of the Southern State of the American Republic, attains a length of about 2 feet, and its main colouring is green, with black and yellow markings.

Glaucus is the curious kind of cray fish often called the Sea Lizard. It is without shell and has a soft body, with hormy mouth and four tentacles. It is a native of the South Atlantic, and is not more than it inches in length.

ri inches in length.

Glee, a musical composition for three or more voices

If inches in length.

If inches in length.

If it is an essentially English composition and was much in vogue during the 18th and the first half of the 19th century. There are still numerous glee clinks, and many of the compositions of this class are of very high merit. The favourite glee writers have been Webbe, Boyce, Callcott, Bishop, Stevens, and Goss.

If it is a summary of the compositions of the compositions of the Chronic The victims were the Macdonald clan, who had been required to take the oath of allegiance to William III, but their papers having been treacherously kept back, gave the Government agent, Captain Campbell, of Glenlyon, the excuse to kill the Macdonalds. They were from from there beds in the early morning and nurdered in the Pay.

Glisson's-Capsule, a sheath of arolar tissue surrounding the branches of the portal year and the

surrounding the branches of the portal vem and the

surrounding the branches of the portal vein and the hepatic duct and artery; first pointed out in the 17th century by Prof. Fras. Glisson.

Globigerina, an ocean unicclular animalcule with a perforated shell, and occerning in certain parts of the Atlantic in such vast numbers as to form a bed of chalk ooze with their empty shells. The English chalk cliffs are survivals of prehistoric beds of Globizeria core Glohigerina ooze.

lioria in Excelsis ("Glory to God in the highest"), is the opening of the Latin hymn adapted

from Luke ii. 4, and the most prominent hymn of the ecclesiastical rites in the Christian liturgies.

Gloria Patri, the lesser Doxology, with which chants are generally concluded in the English Church-service—"Glory be to the Father, and to the Son." Gloriosa. a genus of gorgeous flowering climbers growing in the Himalayas and Senegambia, lanceolate of leaf, with clinging tendrils and large red or yellow bloom; is of the Tulipeæ family.

Glosa, an explanatory statement or marginal note, often found in ancient manuscripts, and is sometimes more valuable than the text to which it refers, Glosaecollite, a milk-white viriety of halloysite, found in a siliceous Silurian rock in Georgia; translucent on fracture.

Incent on fracture.

Glossic, the name given to a phonetic system or spelling introduced by Alexander J. Ellis, and hased on rules of simple sound. It has not, however, been much used apart from printed matter contained in

Pitman's phonographic publications.

Glove-Money, an extraordinary reward paid to officers of courts, and fees given to clerks of assize and judges' attendants by a County Sheriff when no offenders were left for execution; the white gloves presented to justices when there is a maiden session are a survival of this old legal usage.

Gloves are coverings for the land with a separate sheath for each finger, and are made of a great variety of materials. They were not in general use in England before the 13th century, and were not

in England before the 13th century, and were not manufactured in this country until the next century. There was a London Glover's Company in 1464. Glow-Worm, a kind of beetle, possessing in the semale the power of emitting a phosphoresecent light underneath the extremity of the body. The male has the same power, but to a very limited extent: and has wings, while the female is wingless. The light of the glow-worm can be given forth by the

Glucinum, or Beryllium, is a white metal prepared from beryl, and found also in the emerald and other rare minerals. Most of the salts of this metal have a sweet taste, hence the name.

a sweet taste, hence the name.

Glucose is the name given to a group of sugars
produced from camesugar, dextrine, starch, cellulose,
etc., by the action of reagents. It also occurs in
many plants, truits, and honey. For brewing
purposes glucose is prepared by the conversion of
starch into sugar by sulphanic acid.
Glue, a golatinous substance obtained by boiling and
chemically treating hides, hoofs, etc.

Gine, a relations substance outsing a proming and chemically treating hides, hoofs, etc.

Glutan, the insoluble mitrogenous element in four or wheat and other grains. It is a protein substance, and is a mixture or gluten casein, gluten fibrin,

mucin, and gladin.

Giutton, or Wolverine, the biggest animal of the weisel order, inhabits the northermnost parts of Europe and America. In build it resembles the bear, and is rather larger than a badger. Its fur is of a brown-black hue, but coarse; the animal has

great strength, and is remarkable for its voracity.

Glycerine, occurs in natural fats combined with fatty acids, and is obtained by decomposing those substances with alkahes or by super-heated steam. It is colourle 1 oily and sweet, and is put to avariety of commercial uses, being widely utilised for medicaments, for lubricating purposes, and in the manufacture of nitro-glycerine.

manufacture of nitro-glycerne.

Glyptodom, an extunct species of gigantic armadillo,
fossit remains of which have been discovered in
South America. It was some 9 feet long, carried a
huge tortoise-like shell, and had fluted teeth.

Gnat, a two-winged insect of the Diptera order
female possesses the power of biting and stinging.
Its eggs are laid upon the surface of water, fastened together in boat form.

Gneiss, a metamorphic rock continuing quartz, felspar, and mica, the same constituents as grante. Gnomes, dwarf supernatural beings, popularly supposed to exercise protective powers over mines.

and minerals. Gnostics were an early Christian sect prominent from the 1st to the 6th century. They held that Christ was of divine origin, but they rejected the literal interpretation of the Scriptures; contending that God was unknown and beyond man's conprehension, and that knowledge rather than faith was the passport to Heaven.

Gnu, an animal of the antelope family, combining the characteristics of the buffalo in its head and horns, the characteristics of the buildio in its head and horns, the ass in its neck and mane, and the horse in its long and bushy tail. There are two species, the common and the brindled, and they are about the size of an ass. They abound in Africa and congregate in herds.

Goa Ball, a peculiar and powerful drug, scented with musk, and sold in India in egg-shaped masses. It is a favourite specific in cases of fever and certain skin diseases, but its neverse composition is kept secret.

a ravounte specinc in cases of fever and certain skin diseases, but its process composition is kept secret, Goat-Moth, a large moth of the Zenzendæ family, common in Britain, evil-smelling, and very destructive is the larval stage to trees of the poplar and willow genus, into the wood of which the caterpillar bores during its three years period of development. Goats are homed runrant quadruperts, indigenous to the Eastern Hemisphere, but now domesticated in all parts of the world. Though allied to the sheer.

all parts of the world. Though allied to the sheep, they are a much hardier and more active animal. The male has a tuft of hair under the chin. Many species, including those of Cashmere and Angora, are valuable for their hair, which is used for fine textile fabrics. The milk of the goat is nutritive and needicinal, and goat-skins are in good demand for

heather for gloves, shoes, etc.

Goatsucker is the popular name of the night-jar, and the bird was so called from the now exploded tradition that it was in the habit of sucking goats. It is a regular summer visitor to this country, and lays

is a regular summer visitor to this country, and lays its eggs on the ground, soriginated by a family of dyers named Cobelin Tapestry was originated by a family of dyers named Cobelin establishment, which produced this beautiful tapestry, made of salk and wood, or silk and cotton, and used for upholstery purposes, was taken over by the Government in 1000, and since then has been the Francia National Cortex for that the soft dyer.

overly the Government in 1002, and since then has been the Frenci. National factory for that class of Abric.

Goby, the name of a well-known and widely distributed fish, of many species, some of which are common along the British coasts. The ventral fins of the Black Coby form a hollow disc, whereby the Sah can cling to the rocks or other external objects.

God is the term by which the idea of the one Supreme Being is expressed. The conceptions of God vary with different religious and discrent countries. Theisin regards Cod as a personal being, and the author and ruler of the universe; Pantheum identifies God with the universe and not as a personal being.

author and ruler of the universe; Panthess indentines God with the universe and not as a personal being.

Gog and Magod, two legendary British giants, supposed to be the last of the obs., ring of certain wicked daughters of the Emperor Diocletian and a band of demois. Gog and Magog, the story goes, were brought captive to the London palace of Brute, and there kept in chains. Effigies of these giants existed in the Caliblan lines to and were destroyed in the

there kept in chains. Efigues of these giants existed in the Guidhall pion to, and were destroyed in, the Great Fire. A fresh pair, 14 feet high, now in the Great Fire. A fresh pair, 14 feet high, now in the Guidhall, were carved by kichard Saunders in 1708, and it was for a long time the custon to carry them round in the Lord Mayor's procession.

Gold, one of the precious metals, found more oless in all parts of the world, though only here and there in such quantities as will pay for its getting. We have evidence of its existence through the whole of the historical record from the days of the Phaincians down to the present time. It can be traced in the story of the flects of Hiram, King of Tyre, laden with the gold of Only it in the splendours Tyre, laden with the gold of Ophir; in the splendours of the reign of Sardanapalus; in the days of the greatness of Carthage and her hundred tributary cities; through the explots of Columbus, the barbaric cties; through the explorts of Columbus, the barbaric marchings of Cortez, and the conquering magnificence of Pizarro. It has been to man the strongest of all allurements. It was for gold that Alexander the Great despouled Asia, that Scipio descended upon Carthage and Spain, that Crestar subdued Gaul, that Cortez robbed Mexico, that Pizarro piliaged Pensand that the Portuguese swept over Bruzil and Japan. The most remarkable discovery of gold was in California in 1848. The next in importance was the discovery of the Australian goldfields in 1851,

Victoria alone, in the first year of its gold-mining victoria alone, in the first year of its gold-mining producing £16,000,000 worth. Among the more recently developed goldfields, are those of Chorado, the Kloudyke and South Africa. The largest gold nugger was found in Australia. It weighed over 184, lbs. and was worth when melted about £10,000. In 1851 the value of the gold production of the world In 1851 the value of the gold production of the world amount of the 7,7,20,000; in 1911 if was £05,73,600 the British Empire yielding considerably more than half the total quantity. For coinage purposes gold requires to be associated with an alloy, usually copper or silver, the fineness of the gold being estimated by the number of carats of gold in 24 carats of the alloy. The gold comage of England is mixture of 22 latts of gold and 2 parts of copper. Gold-Beatters' Skin is the outside membrane of the large intestine of the 0.x specially prepared, rnd used by gold-beaters for placing between the leaves of gold while they beat them. This membrane is of great tenacity, and gets beaten to such extreme thinness that it is used to put on cuts and bruises. Golden Age of the classical mythology was the age of peace and miscence and patriarchal years. Golden Bull was the name given to the famous edict issued by the Emperor Charles IV in 1365, proclaiming the order of procedure to the election

proclaiming the order of procedure for the election nd crowning of his successors.

and crowling of his successors.

Golden Legand, the title of a famous history of the
Saints, compiled by Jacobus de Voragine, a
Dominican Monk, in the 13th century, translated and

published by Caxton in 1483.

Golden Number, the number of any year in the meteoric cycle of 19 years, deriving its name from the fact that in the old calenders it was always printed in gold. It is found by adding 1 to the number of the year A.D. and dividing by 10, the result being the Golden Number; or, if no remainder, number of the year All, and dividing by 1g, the result being the Golden Number; or, if no remainder, the Golden Number is 19. Thus: \$100+1=1911\$, 1911 divided by 19=100, with 11 over, the Golden Number. The only use to which the Golden Number is put now is making ecclesiastical calculations for determining movable feasts.

Golden Rose, the Pope's, rose of wrought gold blessed and sent from time to time to the church or community ins Holmess selects to honour.

Golden the Company, one of the richest of the London City Companies, dating from 1190, and the official assayers of gold and silver, invested with the power of "hall-antking" the quality of objects made from these metals. Total income. £58,000.

Gondola, the old regulation black hoats so common on the canals of Venice, propelled by a gondoher with one oar who stands at the stern, his passengers being accommodated in a covered space in the centre.

Gonfalon, the pennon affixed to a lance, spear, or standard, consisting usually of two or three streamers,

standard, consisting usually of two or three streamers, and made to turn like a weathercock.

sed Templars, a temperance organization established in England in 1868, but existing some years earlier in America. It has a very extensive membership in this country, and its headquarters are

membership in this country, and its headquarters are at Blimingham.

Gordon Riots were caused by an anti-popery agitation fomented by Lord George Cordon, who along with a mob of 50,000 persons marched to the House of Commons to present a petition, the people afterwards proceeding to destroy much valuable property. The riots were suppressed by the military.

Gordia, the largest of the anthropoid apes, found in the forests of Equatorial Africa, and at maturity section.

the forests of Equatorial Africa, and at maturity standing from 4 to 5 feet high.

Geshawk, or goose-hawk, a bird of prey of the facton family. Being rather slow and weak in flight, it is trained by falconers for catching hares, rabbits, etc. It is only occasionally seen wild in Britain, but is common in Southern Europe and Asia.

Gespela are those portions of the New Testament which deal with the life, death, resurrection, and teachings of Christ. They are the gospels of Matthew, Mark, Luke, and John, and the first three are called the symptic gospets because of their general unity of narrative That of John is of somewhat wider scope, and gives in addition to the story of the Passion, an account of the ministry in Judea.

Numerous other so-called Gospels were put forward,

Numerous other so-called Gospels were put forward, but they are regarded as apocryphal.

Gothenburg System, a method of controlling the sale of intoxicants originally adopted at Gothenburg, and since tried in Norway, Sweden, and other places with some success. It restricts the sale to houses appointed by the State, appoints companies to manage them at a fixed rate of interest, and applies the surplus profit to public objects. the surplus profits to public objects.

Goths, a Teutonic people whose descent on Central ORDE, a Teutonic people whose descent on Central Europe from Baltic regions and utilinate domination of a great part of the Continent had a widespread histone influence in the 4th and 5th centuries. Under the leadership of Alaric (and then known as the Visigoths) they conquered both Greece and Rome in 4to, but by the 8th century they became merged in the Spanish race.

Aro, but by the 8th century they became merged in the Spanish race.

Gowrle Conspiracy was a project for securing the person of, or assassinating, James VI of Scotland, afterwards James I of England, and implicated the Ruthwens and other of the Scottish Protestant nobility. The frustration of the piot gave James the excuse for throwing over the Presbyternans and cooperating with the likhops.

Grail. (See Holy Grail.)

Gramme, the unit of weight in the metric system, being formulated as the 1,000th part of a certain piece of platinum called the "Kilogramme des Archives" preserved in Paris. It is equal to about 15 1/ght grains Troy. The further division of the gramme gives the centificanime (noth part), decigramme (1-oth), decagramme (10 grammes), etc. (See Metric Bystem.)

Grampushone, an apparatus on the disc principle for recording and reproducing vocal soun is, invented by E. Berliner, and one of the most popular of the talking machines.

Grampus, a Cetacean of the Dolphin family frequent in temperate waters, and at maturity being over so feet long.

Grand Prix, the "French Derby," was established by Napoleon III in 1863. It is the chief French race and is an international competition of three-

year olds.

Graphite, or plumbago, commonly called blacklead, is a curbon substance occurring in foliated
masses in lunestone, granite, etc. It is soft, will
make black marks on paper or other plant surfaces,
and is manly used for lead pencils. The best
graphite comes from Siberia.

Graphophone, a disc sound-recording and re-producing machine, different in construction from the

phonograph, but producing results of a like kind.

Graphotype, a kind of block for printing from the drawings for which are made on a chalk surface with a silicious ink. The soft parts are brushed away after the surface is dry, and a block is made from what remains in relief.

what remains in relief.

Graphel, a modified kind of boat's anchor, with
flukes for holding by. Also an arrangement of hooks
or clamps for fixing to and holding one ship to
another while being boarded in an engagement.

Grass-Cloth, a fabric made from China grass, the
fibre of certain plants of the nettle order.

fibre of certain plants of the nettle order.

Grasses form the general verduous covering or herbage of the helds, and include a wide variety of plants. Ordinarily the term is applied to pasturage plants on which cattle and other animals feed, but in its broader application also takes in the various cereal plants, such as wheat, barley, oats, rice, etc.

Grasshopper, a well-known insect, whose third or hind pair of legs are constructed to enable it to make progression by leaps. There are many species, most of which are of the locust order. The male grasshopper makes a shrill sound as he leave

male grasshopper makes a shrill sound as he leaps.

Gravitation is the natural attraction of bodies of

Gravitation is the natural attraction of bodies or matter to the centre of the earth, the principle having been set forth by Newton in 1637.

Gravity Railway is a railway worked by the power of gravity alone. The road is constructed on inclined planes, usually so arranged that descending cars pull the cars from below to the higher level.

Graylag, the ordinary wild gray goose of Europe, and so called from the fact that at one time it did not

migrate with the old wild geese, but lagged behind

in the fens and marshes.

Grayling, a fresh-water fish of the salmon family, having a farge dorsal fin, and averaging about r lb. in weight. It affords good sport to the angler, and feeds mainly on flies.

Grease, animal fat in a soft condition, used partly for

Greass mainly our mes.

Greass, animal fat in a soft condition, used partly for labricating purposes, and as an unguent. It assumes many forms, and is derived from many sources.

Greas Circle Salling is the art of steering a hip in a line with a straight dinneter of the earth.

Greas Eastern, "he ship built by Scott Russell at Milwall and launched in 1854, and then by far the largest vessel affort, measuring 50; feet in length and 85 feet in breadth, and of 22,800 tonnage. It way long regarded as practically useless for ordinary ocean traffic, and, after heing used for Atlantic cable laying, was ultimately sold to be broken up.

Greas Powers, the six European countries to which this term applies are Great Britain, France, Germany, Austria, Russa, and Itappen, of which there are some 20 species. The two species familiar in this country are the Dalcinck and the Great Crested Grebe, the latter having a feathery tuft on each side of the head. The irreaxt feathers are of a downy softness and silver instruct.

a downy softness and silver lustre.

Greek Church represents the churches in accord with the Greek patriarchal see of Constantinople, and marks the point of separation from the Roman Catholic Church, which occurred in 1504 A.D., when Catholic Church, which occurred in 1504 A.D., when Pope Leo IX. excommunicated the patriarch and the countries comprised in Greek, Greco-Roman, Russian, and certain Oriental groups renuamed faithful to the Patriarchal cause. The Greek Church arcepts the doctrine of transubstantiation, believed in the intercession of the Virgin and saints, and the power of priestly absolution; but rejects purgatory, Papal supremacy, and the worship of images. It also allows its priests to marry. It has over 80,000,000 adherents, nearly two-thirds being Russians.

being Russians.

Greak Fire, a combustible, supposed to have been composed of subbur, rutre, naphtha and asphait, used with destructive effect by the Greeks of the Eastern Empire in their wars. The secret of its composition was preserved for hundreds of years, but, when Constantinople was conquered, was discovered by the Mahomedans. The Sarucens employed it against the Christians during the Crusades, and it was so powerful that it would burn under water.

under water.

under water.

Greek Kalends, equivalent to never, as only the
Romons, not the Greeks, had kalends.

Greenowite, a kind of titainte found at St. Marcel in
Pledmont. It is of a manganesian variety, and is
rose-red in colour. Its name is derived from its disdiscoverer, Mr C. B. Greenough, the geologist.

Green Robm, the common assembling room for
actors and actresses behind the stage, so called from
the first rooms of the kind being decerated in green.

Gragorian Song, a name applied to the ritual music as established by Pope Gregory I. Gregorian music requires a more rigid harmony than can be given in the modern system, and is peculiarly appropriate for church use

prante for cource use,

Grennade, an explosive shell which was thrown by
hand or with a shovel. Grennades were made of various
materials—wood, glass, gun-metal, bronze, etc.—and
were in use in the 17th century. Modern grennades
are of spherical shape, and usually cased in cast iron.
Grennadler was originally a picked soldier, employed
in throwing hand grennades. The Grennadier Guards
regiment, remetitates the new obsolete usuas in

in throwing hand grenades. The Grenader Guards regiment perpetuates the now obsolete usage in connection with our own army.

Greyhound, one of the oldest knewn varieties or dog, bred for the chase, s.id of great deetness. It is a large, slenderly built animal, and pursues by sight, not scent, being kept for hare-coursing chiefly. Among its sub-varieties are the Scotch deethoused, the Irish boar-hound, and the Russian wolf-hound.

Griffa. the name given to a classific architectural.

Griffe, the name given to a claw-like architectural decoration common in mediaval buildings, and

placed at the base of columns

Griffin, an imaginary monster, half eagle, half lion, a figure familiar in heraldry, legend, and architectural decoration.

GPILLE, a metal-work covering in the form of decorative

Grille, a metal-work covering in the form of decorative bars, used to protect a pertures in walls or doors.
Grilse, a young saimon, at that period of its development when the fish makes its first return to firsh water, usually in its second year.
Grilmmel, a sub-order of apocarpus mosses: Grilmmel, sub-order of apocarpus mosses: Grilmmel, bulvinatum, the Swan's Neck Bryum, is the typical genus.
Grilmmel, Law, formulated by Jacob Grimm, an eminent German philologist, lays down a principle of consomantal interchange in the Aryan languages, establishing a minemonic rule whereby a consistent plassification can be applied.
Grilndery, the naterials employed by shoemskew and other workers in leather in their craft Grilndery, the auterials employed to grilndery of the first played in the first played in the grilndstone, a wheel of sandstone, employed in

Grindstone, a wheel of sandstone, employed in smoothing surfaces, and grinding and sharpening tools; it may be worked by treadle or machinery. The millstones used for grinding corn are also called grindstones

grindstones.

Grisatta, the name given in France to young women who serve in shops and elsewhere, and are not specially bound by domestic ties.

Groat, an old English silver coin of the value of ad. It was first issued in the reign of Edward III, but after 1692 only coined as Maundy money. The fourpenny piece was resumed, though not under the old name, in 1856, but in recent years has dropped out of the conserve. out of the comage.

out of the comage.

Groats (or grits) are the grain of oats deprived of
the husks; and, crushed, become whole meal.

Grog, the beverage served out to sailors, and
compounded of spirit and water in prescribed proportions. The name, it is said, was derived from the
fact that Admiral Vernon who introduced it into the
Engish navy in 1745, wore Grogram breeches. Now,
any sort of mixed drink is called "grog,".

Grogram, a kind of rough fabric made of wool
and some other fibre, such as silk, mohair, or
cotton, formerly much used for commoner kinds of

cotton, formerly much used for commoner kinds of wearing apparel.

Groschen, a small silver coin introduced into the German currency about the 14th century and still in use. It is a thirtieth of a thaler, or about 12 of a penny, English.

penny, English.

Grotto, a natural or artificial cave. Some grottoss are of great beauty, and are much frequented. The most famous are those of Capri, of del Cane, and of Antiparos. The latter is covered with stalactite formations of singular picture-queness.

Grouse, a kind of game-bird common to the moors of Lingland and Scotland. Of the same family are the ptarnigan of Scotland, the capercalizie, also found in Scotland, the Canada grouse, the American praine-hen, and the common partridge. Grouse shooting begins in Britain on the 12th August, Grub Street, the London city quarter of hack

Grub Street, the London city quarter of hack writers during the Georgian period, and frequently alluded to in the hterature of those days. To-day it is

called Milton Street.

called Milton Street.

"Grundy, Mrs." a sort of Mrs. Harris, introduced by Dame Ashfield, a character in Morton's comedy "Speed the Plough." The Dame considers every action from the point of view of Mrs. Grundy (a personification of British respectability), and is continually putting the question, "What will Mrs Grundy say?" Thus the name became proverbial.

Grundy say?" Thus the name became proverbial.

Gruyàre. a special kind of cheese, first peculiar to
the small town of that name in the centon of
Freiburg. Switzerland, but now nucle in other
parts of Switzerland, and in France. It is of a pale
yellow colour, and contains air passages and bubbles
which give it a rather honeycombed appearance.

Guanaoo, a large species of ilama, common to South
America, and utilised as a beast of burden.

Guano, the excrement of sea-birds, found in the
largest quantities on the rocky islands of the western
coasts of South America. It forms a useful fertilising
agent, and first came into use in 1841, since will, in
time Peruvian guano has been a recognised article of
commerce. Beds of guano of from 50 to 60 feet in

thickness are not uncommon. Fish guano and bat guano from caves in South America and the Bahamas and also among modern fertilisers.

Guardian, one who has the care of the person or property of another, or (as Guardian of the Poor) is one of a body entrusted with the administration of

the poor law system.

Guards in the British Army comprise three regiments of cavalry, and four foot regiments. The cavalry regiments are the 1st and 2nd Life Guards, and the Royal Horse Guards; the infantry guards are the Grenadiers, the Coldstreams, the Scots Guards, and the Irish Guards.

Guards a small fresh-water fish of the carp family.

easily caught by reason of its voracity, and much

used as buit.

Guelphs, the name of a powerful German family of the Middle Ages, for a long time in conflict with the Ghibellines. The Guelphs were founders of the royal houses of Brunswick and Hanover, and there-

fore ancestral to the present royal family of England
Guaresa, a large and remarkable African monkey,
Colobos guereza with long flowing masses of white har
and tuffed tail.

Guildhall, the place of assembly of the members of a guild, and at one time, when guilds were in full crength, was practically the Town Hall. The London Guildhall is to-day the hall of meeting for the

City of London Corporation

Guilds for the fostering and protection of various trades have existed in England since Anglo-Saxon times, and from the 12th to the 16th centuries, during which period they greatly developed, exercised great influence and enjoyed many privileges. There were trades' guilds and crattenen's guilds, and in all large cities and towns there was a guild hall. Many guilds still exist and enjoy considerable revenues, but they are now but private bodies and have little direct influence upon the course of trade. Their successes in the Middle Ages led to many monopolistic abuses, and in the end it became necessary to

free the country from their restrictive power.

Guillemot, a genus of sea-birds of the auk family,
common in Northern Europe, two species—the
Common Guillemot and the Black Guillemot—being natives of our own sea coasts, nesting and breeding

on the cliffs.

natives of our own sea coasts, nesting and breeding on the cliffs.

Guillotina, the apparatus used in France for the punishment of death. It consists of an oblique-edged knife, fixed between two grooved posts, and being heavily weighted, falls forcibly on the neck of the victim, severing head from body. The machine, which is a modification of a beheading machine used in various countries in the Middle Ages, was named after Doctor Guillotine, on whose proposition, in the French National Assembly of 1786, such a method of execution was adopted. Dr. Guillotine was not the actual inventor of the machine, nor did he, himself, as is popularly supposed, suffer death by its agency. Guinea, an English gold coin of the value of twenty-one shillings, current from 1603 to 1817, and deriving its name from the first guinea coinage being struck from gold obtained on the coast of Guinea. Spade ike shield, belong to the reign of George III.

Guinea Pig, a small animal of the cavy order, a native of South America, of various colours, and very prolific. It is often kept as a, pet, but does not display much intelligence. How it got its popular name is a mystery, since it did not come from Guinea, nor is it a pig.

Guitar, a susstringed musical instrument of the lute Gultar, a susstringed musical instrument of the lute order. Spain seems to have been its country of origin, and it is still popular there, in Italy and France, and has also a certain vogue, and was once much heard in England in song accompaniments. It has a stage of from 3 to 4 octaves Guldan. A former gold coin of Germany, the Low Countries, and a former silver coin of Austria, worth about 78. 8th Regish. The silver gulden is still current in Holland.
Gulas, a heraldic term, denoting a rose or red tincture, indicated by vertical lines drawn or angraved without colour.

Gulf Stream is commonly supposed to have an important influence upon the cimate of the British Isles and North Western Europe generally, but in recent years scientific geographers have shown that the belief has no foundation in fact. The Gulf stream cannot be distinguished from the rest of the Atlantic anywhere east of Newfoundland, so that it disappears long before it reaches our shores. The stream is, in fact, only an incidental part of a great system of circulation of the surface waters of the North Atlantic, and the drift of water from North Atlantic, and the drift of water from North America to Europe is caused entirely by prevailing America to Europe is caused entirely by prevailing America to Europe is caused entirely by prevailing winds. These most south-westerly winds possibly derive some heat from the great mass of Adantic water which they keep in circulation, but in the main the warmth is due to the fact that the wind itself comes from warmer regions. If the Gull stream were diverted at the Straits of Florida we should not experience the slightest change of climate, for the warm wet south-west winds would still ameliorate the temperature of our Islands. Gull, a web-footed sea-bird of numerous species, inhabiting the sea coasts of all parts of the world. They are mostly of a soft grevish-white plumage.

They are mostly of a soft greyth-white plumage, and are voracious feeders, living on fish, eggs, small birds, worms, etc. Light or ten species are native to the British Isles.

Gulliver, the hero of Swift's satire, Gulliver's Travels, who, in Lilliput and brobdinging, passed through a series of advantages which were so contrived as to reflect the humours, follies, and shortcomings of Swift's day. Apart from its satire, it forms one of the best hooks for boys ever written.

it forms one of the best books for boys ever written.

Guma are glutmous compounds obtained from
vegetable sources, soluble in cold or hot water, but
not in alcohol. There are innumerable varieties,
Gum Arabic is exuded from a species of acacia
grown in Senegal, the Sudan, Arabia, India and
other countries, and is a valuable commercial
product, used in dyeng, ink-making, as a mucilage,
and in medicine. India-rubber is an elastic gum,
Gums are also made from storth, potatoes, wheat,
etc., from seeds, bark, roots, and weeds. Many socalled-amounter results. called-gums are resus.

called-yuns are results.

Gun-Coston, a powerful explosive manufactured by subjecting a prepared cotton to the prolonged action of a mixture of three parts subphiric acid and one part of nitric acid. It burns without explosion on ignition, but by percussion explodes with a force five times greater than that of gunpowder.

Gun-Money, the name given to the money coined by James II. as "snews of war," on his attempts, in 1000 and 1190, to recover his lost kingdom. The coins were mostly made from brass cannon and kitchen utensils, and were of the nominal value of 6d., 181, 28. 6d. and 85. respectively.

strenen utensis, and were or the nominal value or 6d., 1s., 2s. 6d. and 5s. respectively.

Gunny, a coarse cloth made in India from jute and hemp, used chiefly for bags and sacking, though sometimes also for clothing by the very poor.

Gunny cloth is largely manufactured in Dundee,

Gunpowder, the oldest of explosive mixtures, is a compound of the large set when and

compound of saltpetre, sulphur, and charcoal thoroughly amalgamated and reduced to fine powder. The proportion of the ingredients is varied according to the uses for which it is destined.

varied according to the uses for which it is destined. In recent years a smokeless gunpowder has been much used, an oxidibing agent being used to prevent the smoke. Cordite is a familiar example. Gunpowder Plot was the conspiracy entered upon by a desperate band of Roman Catholics, in the reign of James I., to avenge the harsh treatment to which the Catholics were subjected in those days. Barrels of gunpowder were secreted in the vanits underneath the Houses of Parliament, and I was proposed to fire these when the King and his Ministers assembled on the 5th November, roo. A letter of warning to Lerd Monteagle led to the discovery of the plot, and Guy Fawkes and his Co-conspirators were arrested, and seacuted. Gans comprise muskets, carbines, rifacs, cannoas, etc., in a never-ending variety. In the 24th century they were simply tubes by means of which stones were thrown at an enemy. Then gunpowder came into use, and a metallic tube which could be castled

in the hand was utilised for firing and directing the shot; and so the development proceeded, improved forms of guns being introduced from time to time, until frost small arms the advance was made to cannons, and machines of immense power came to be adopted. Among the leading modern inventors of guns may be mentioned the following: Lord Armstrong, who in 1855 invented the wrought-tron, breech-loading gun of small and large calibre; Major Paliser, who was responsible for the tubelined gun, adopted in the 18-nitsh army about 180; Krupp with his powerful steel guns for the German army; and Whtworth's rified firearms. Of the machine guns the best known are those of Maxim, Gardner, Gathing, Hotchkiss and Nordenfelt.

Lightang Chalin, a surveyor's cham invented by in the hand was utilised for firing and directing the

Gunter's Chain, a surveyor's chain invented by Elmund Gunter to facilitate the admeasurement of

Eliming conter to tachtate the admessurement of arross. It possesses roo links, and is 22 yards long, each link representing 7/20 inches. Gurnard, a sea-fish, with large, bony head and diminutive body, of which there are some forty species. They are plentiful in Hritish waters. The trying fish of the Mediterranean is of the gurnard. nying his of the Medicination is of the guidand family, but the so-called Armed Gurnard, noted for its spiky coating, is of the Cataphracti family. Gutta Percha, the concrete juice of an evergreen tree common in the Peninsula and Islands of Malay.

It possesses normally and naturally little elasticity, It possesses normally and naturally little elasticity, but becomes pliant under a rising temperature and has many commercial uses. Though tough and hard at ordinary temperatures, it gradually softens as it is subjected to heat, but when very hot develops a strckhess rendering it difficult of manipulation. In recent times it has become of considerable value as a covering for electric wires, being a non-conductor, as a covering to electric wires, being a non-conductor, while it is largely comployed in making hose, belting, and other flexible groots. Combined with the more elastic caoutchouc it is easily vulcanised.

Guy's Hospital, founded by Thomas Guy in

London in 17-5 is one of the most important insti-tutions of the kind. It has an income from endow-

tutions of the kind. It has an income from endow2,05,000 but its expenses are wastly
beyond that, and the hospital relies largely on voluntary subscriptions for its great well.

Gybing, in havigation, means the moving of any
boom sail from one side of a mast to the other.

Gymnasium, originally a Greek institution, and
forming it part of the general education equipment.

It was also adopted by the Romans to some extent,
and in modern times, especially in Fingland, has been
large scale. In ancient Greece the
term Gymnasium came to be specially associated
with higher teaching, as is now the case in Germany.

with higher teaching, as is now the case in Germany.

Gymnastics, the general trin for athletic diversions when performed not as sports or gaines, but as disciplinary or health-promoting exercises.

Gynceceum, the nursery or apartments of the females in the interior of a dwelling house; a term in Greek architecture

Gypsoplaste, a cast taken in white have or plaster

Gypsum, a whitish mineral consisting of sulphate of calcium. Some varieties are of a brown-red thit. Ground to a powder, it forms a manure; heated to 400°, it becomes freed from the water it contains, and

400. It becomes treed from the water it contains, and resolves itself into the powder called plaster of Paris. The finest grained variety of gypsum is alabaster. Gyromanoy, divination by walking in circles, was one of the ancient superstitions. The person for whose benefit the art was invoked walked round and round in a circle (about which certain signs had previously been placed) until he fell from giddiness. From the manner of his fall in relation to the signs, the interpretation was formulated. the interpretation was formulated.

Habeas Corpus, the name given to a writ ordering the body of a person under restraint or imprisonment to be brought into court for full inquiry into the legality of the restraint to be made. The first legality of the restraint to be made. The first Habeas Corpus set was passed in 1679, though nominally such a right had existed from Magna Charta, but some of the more despotic kings had disregarded it. In times of public peril the privilege of habeas corpus is sometimes temporarily suppended, many instances occurring in the secent history of Ireland.

Habendum, the name applied to the special clause of a deed of conveyance which specifically sets forth the estate or interest which the grantee is "to have

Habrocoma, a genus of South American rodents, possessing four toes to each fore foot, having large

ears, and a fine, soft chinchilla-like fur.

Hackling-Machine, an apparatus employed; in removing burs and other foreign substances from

removing burrs and other foreign substances from raw flax prior to spinning. It consists of a pair of rollers covered with brushes and hackles.

Haddook, one of the best-known fishes, abounding in northern seas and averaging about 4 lbs in weight Largely used forcump, and sold as "finnan haddies."

Hadd of veins, a mining term indicating the particular inclination that any vein, beam, or strats may have from the perpendicular; thus, in Weardale the veins manly "lade" to the north.

Haddi, a title given to any Mussulman who has made the pligninage to Mecca. A green turban is the designating readyear of the Hadji.

Hammatika, peroxide of iron, one of the principal issue.

Heamatite, peroxide of iron, one of the principal inn ores, containing about 70 per cent. of the metal. It is usually found in kidney-shaped masses, and is specular, red or brown, in thin fragments, but greyible

Hafiz, besides being the name of a famous Persian poet, is a title conferred upon any Mahomedan who has committed the whole of the Koran to memory.

Hag-fish, a parasite sea-fish about a foot long, of

Hag-fish, a parastic sea-fish about a foot long, of unierior type, with soft backbone and eel-like form; found within the bodies of other fish, and called sometimes the "borer," or "the glutnous hag-fish."
Hagiarchy, a form of government composed of priests and devoted to sacred things.
Hagiographa, the "Holy Writings" of the Jewish Scriptures, and comprising the Chronicles, the Paalms, Proverbs, Soing of Solomon, Ecclessates, Job, Ruth, Lamentations, Listner, Daniel, Ezra, and Nehenmah. Neheunah.

Hagiology, a branch of literature that is wholly given up to the listory of the saints, and the setting forth of the stories and legends associated with their names Hall, frozen rom drops or hadstones, are composed

all, frozen rain arrays or naistones, are composed of ice and snow, and sary in shape according to the producing conditions, although most commonly conical. It is on record that hallstones weighing over half a pound have occasionally tallen. Hall is often an accompaniment of a thunderstorm. Hailstories do much damage to vines, fruits and agri-cultural produce, and many societies exist on the Continent for hail protection, the method of procedure being to keep up discharges of artillery at threatening periods, which usually has the effect of

dispersing or warding oil the liail.

**Railey bury College, in Hertfordshire, originally established in 1800 for the education of boys for service under the Fast India Company. Since 1862 it has been a public school, receiving its charter in 1864.

Hall, a more or less fine capilary covering forming on the skin of animals generally, in many instances covering the either body, but in human being shaving its chief development on the head. Human hair grows longest on the heads of women. Ordinarily, the structure of a hair comprises a root, a stem or shaft, and a point. The root, which is bulbous, is enclosed in a skin follicle, connected with which are schaceous glands whose secretion feeds and imparts gloss to the hair. Hair bears a colouring pigment, black, brown, flazen, or red, and when the pigment begins to fail in its supply the hair layes its colour and turns grey. Males have usually administrational red and the seasof Furope, but not in high favour for the table with fastichous feeders.

Halbard, a kind of spear much used as a military weapon in feudal times. Its blade was sharp-edged, and it bore an axe or projecting kinfe a few inches Hair, a more or less fine capillary covering forming on

from the point. Halberdiers often formed the body-guard of kings and notables.

Baloyon, a term associated in elden times with the kingisher and days of soothing calu, "halcyon days" being a frequently used expression. The legend was that the kingisher laid its eggs on the sea a time of perfect stillness.

at a time of perfect summers.

Ealdantiegs, a small religious sect established about a century ago by James and Robert Haldane in many parts of Scotland, but the divergence of doctrine from the orthodox Christian teaching was so small that the Haldanties in time became affiliated with other denominations.

Half-pay, pay allowed to naval or military officers retired from active service, but liable to be called upon for active duties in an emergency.

Halibut, one of the largest of the flat fishes, averaging

when full grown from 4 to 6 feet in length, and highly esteemed for the table. Specimens of still larger size occasionally occur. It is plentifully distributed. Its two eyes are on the right side of the head.

Halldon Hill, the spot upon which Edward III. won the victory over the Scots in 1333, which enabled

won the victory over the scots in 1333, which enabled him to obtain possession of Berwichich the term earshells is commonly applied by reason of their shape; largely used as ornaments and for inlaying. Some species are found on the British coasts, but the best kinds are tropical. The inmates of these shells are

Hallowe'en (October 31st), the eve of All Saints'
Day, a time associated, especially in Scotland, with
certain pleasing superstitions attractively set forth in Burns's famous poem "Hallowe'en." It is the night when young men and maidens are supposed, by observing certain rites, to have their future wives and husbands disclosed to them.

Malo, a lustrous circle surrounding the sun or moon, and due to the refraction of the light by ice-crystals in the higher atmosphere. Small halos are termed coronae. Solar halos are rainbow-hued, lunar halos

coronic. Solar halos are rainhow-hued, lunar halos are mostly colourless.

Ealogeus is a general scientific term applied to the four combinable non-metallic elements, chlorida bromine, iodine and fluoriue. Cyanogen is also a

bromine, todine and noorbook compound halogen, compound halogen, a family of fica beetles, which include the turnip fica, the cucumber fica, and the cabbage fica. They are very small but destructive.

Ralwans, a Comish mining term, signifying refuse ore.

Hammook, a hangung bed, net, or canvas for resting the comment of the comments of the comments

Mammook, a hanging hed, net, or caivas for resting or sleeping upon. In tropical countries hanmocks are in general use, also in summor time in colder countries, while on sliphoard they are very largely resorted to, especially in hot climates.

Eampton Goust Conterence, call together and presided over at Hampton Court Palace by James I. in 1604, had an important hearing on the religious differences of the time. Prominent representatives of both the Church and the Puntanical parties were present, and amongst other things that this Conference brought about was King James's authorised translation of the Bible. authorised translation of the Bible.

authorised translation of the Bible.

Mamster, a kind of burrowing rodent, about the size of a rat, an inhabitant of Northern Europe and Asia. Remarkable for its cheek pouches, in which it stores Its fur is of consulerable commercial value.

food its in: so considerable commercial value.

Hanapar Office, a former Chancery office, deriving its name from the fact that such of its writs as referred to public matters were kept in a hanaper (hammer), while those relating to the Crown were kept in a small bag. The custodian was named Clerk of the Hanaper. The office was abolished in 17.2.

Hand, a measure of four inches, the average size of Hanfd, a measure of four inches, the average size of the palm; a term used in reckoning height of horses. Handfasting, an informal marriage custom once prevalent in Scotland, whereby a man and women bound themselves to cohabit for a year and a day, and at the end of that period either confirmed their contract by a regular marriage or separated. Hand Grenade, an iron shell charged with gunpowder, fired by means of a fuse, and thrown by hand. In the early days of explosive warfare the hand grenade was greatly used, and even now there

are times when it can be employed with effect. Filled with certain chemicals, the grenade is provided for use in fire-extinguishing.

Eandloap, in horse-racing or other coxtests, is an equalising of the chances of the contestants by putting extra weight on to proved superior horses or men, also by conceding privileges, in shortened distances, or otherwise, to inferiors. The aim is to give all competitors an even chance.

Eandlearchiefs of one kind or another have existed along the dawn of civilication. The Bible her

since the dawn of civilisation. The Bible has references to them; and even in the earliest literature we find mention of handkerchiefs of special value and ornamentation. Handkerchiefs of sells and gold lace were in use in Queen Blizabeth's days.

lace were in use in Queen Elizabeth's days.

Randspike, a lever of wood or metal used on shipboard for raising weights, moving guns, and other
heavy work; now to a large extent superseded by
more useful labour-saving contrivances.

Ransard, the title cornerity given to the official reports
of the proceedings of Parliament, so named after
Luke Hansard, who printed the reports from 170s. The
Hansard firm continued the publication down to

Hanseatic League was a formidable trading confederation established in rag for purposes of mutual protection in carrying on international commerce. The Hanse towns numbered over no when the League was at the height of its power, and exercising almost supreme authority within its own limits. The League exergenated the seas from pirates, the land almost supreme authority within its own limits. The League safeguarded the seas from pirates, the land from robbers, and coerced opposing governments. A branch of the League was established in London, and had its guidhall in Cannon Street for hundreds of years. The League existed down to the middle of the 17th century. Hamburg, Luleck, and Bremen age to-day the only cities which, as free ports, still by commercial courtesy retain the name of Hanse towns.

Hansom, a two-wheeled one-horse cab, invented by Joseph A. Hansom in 1843. It was, until the recent introduction of the motor-can, the cab in most ordinary use in Mondon, and many other cities and towns in the United Kingdom. Lord Beaconsfield styled it the "gondola of London." It is constructed

styled it the "gondola of London." It is constructed to soat two persons, and the driver sits on a "dickey" behald, level with the roof of the cab.
Bara-klipt, the custom of suicide by compulsion, or "happy despatch," once common in Japan, but no longer permitted. The condemned person gave himself the first cut, and if his courage then falled

him, the fatal blow was dealt by a friend. **Hare**, the leading member of the *Leptus* family, and common in Northern Europe. Noted for having four upper front teeth, one pair behind the other,

common in Northern Europe. Noted for having four upper front teeth, one pair belind the other, long ears, short tufled tail, and a cleft upper lip. It is a very swift aninal, and intelligent in eluding pursuit, therefore much hunted, greyhounds being used to chase it, the sport being called "coursing." The hare makes a nest of grass, called a "form." Harem, the portion of a Mahometain's dwelling set apart for the female members of his family, and forbidden ground to visators. In India the harem is called the Zenana.

Harlaw, Battle of, the famous fight in 1412 between the Highkanders, under Donald, Lord of, the Isles, and the Lowlanders, led by the Earl of Mar, when the latter were completely victorious.

Harlam Has. comprise some thousands or volumes of MSS. and documents, collected by the first Earl of Oxford and his son Edward. After the death of the latter, his widow handed the MSS, over to the nation for £10,000, a sum that did not represent a quarter of their value, and they are deposited in the British Museum.

Harlaguin the Editor to the Robbet transparent hade-

Harlequin the buffoot of ancient Italian comedy.

As adapted to the British stage, however, harlequin is a pentomime character only, in love with quin is a pantonime cnaracter only, in love wan Columbine, appearing in particuloured garments and carrying a wand, by which he exercises a magic influence in thwarting the fantastic tricks of the clown and pantaloon.

Harmattan, the Arabic name of a warm, dry wind

that from January to March blows across the Sahara to the Gulf of Guinea and gives rise to nose

Sahara to the Guif of Guinea and gives rise to nose and mouth aiments, though a deterrent to fever.

Harmonios, the science of musical sounds; the term is also specially applied to the class of sounds which can be given on a musical instrument in addition to the primary sounds, and are produced by a certain skilled manupulation that causes the string played upon to emit its lugher octaves thirds, fifths, and so n. and so on

and so on.

Harmonium, a keyed musical wind instrument, invented by Debain in 1840, the air being supplied from bellows operated by the feet, and driven through metallic reeds. The American organ is an

improved variety of harmonium.

improved variety of harmonium.

Harp, one of the most ancient of stringed instruments, and in its simpler form much used in England and wales in early times. The modern harp, however, is a greatly improved instrument, the present double-action harp being capable of producing music in any key with very fine effect. It forms a part of the process of the process of the provided in the most large orchestras, and for song accompaniments is much appreciated.

is much appreciated.

Harpoon, a kind of barb-headed spear used for attacking whales. These used to be thrown by hand, but the modern harpoon is an instrument of ingenious mechanism, with staft, slot, and ring, and is fired

Harp-seed, the ordinary Greenland seal, with a dark harp-shaped marking on its back, hence its name. It abounds in Newfoundland waters and

further northward towards the Arctic.

Harpsichord, the prototype of the pianoforte,
was a valued musical instrument from the 16th to the and of the 18th century. Its keyboard was from 4 to 61 octaves, and the notes, which were thin, were produced by a plucking operation, not by

triking. Harpy Eagle, a native of South America, one of the most powerful birds of prey in existence. It is of grey plunage, and has a large crest. It attacks sheep, calves, and deer, and is very destructive. Harriars, a bird of prey of the falton family, three species of which are found in the North of England and Scotland. It has a ruff of fine feather's round its

neck. In some parts it is called the blue Lawk.

neck. In some parts it is called the bust lawk.

Harrow, an agricultural implement of great
antiquity, formerly made wholly of wooden crossbars, with a series of strong teeth underneath which
when pulled over the ground break it up. Iron is
now largely used both for teeth and frame.

Varieties are chain and revolving harrows.

Martebeast, a species of common African antelope. of a grey-brown colour, with knotted horns bending brackward and tapering to sharp points; it is gregarious, of large size, and capable of domestica-tion. Its flesh is not unlike beef in flavour.

Hart's Tongue, the common name for ferns of the

Exercise Tongue, the common name for terms of the Scologendrum genus, souly one variety of which is found in England in the wild state.

Reveard University, the first American University established at Cambridge, Massachusetts, in 1638, by John Harvard, a settler from Cambridge, England. It has about 3,000 students.

Bervost Bug, a very small insect, of a dark red colour, which appears in large numbers in the fields in autumn and is receivable viewing to compare and

in autumn, and is peculiarly critating to animals and man by the tenacity by which it attaches itself to the skin, and burrows underneath

Harvest Moon, the full moon that occurs nearest to the autumn equmox, in September The fact that it rises for several nights running about the same time, and yields an unusually brilliant series of moonlight

nights, constitutes its striking phenomenon.

Bashish, a narcotic drug prepared from the cum
extracted from Indian hemp, and length used for
smoking by the Arabs, and made give a beverage
called blassy in India, in Both cases having much the

ame effect as opium.

wante enert as opum.

Hatchment, in heraidry, is a square heard, in

vertical diagonal position, placed outside a houselor
on the tomb at the death of a member of a family. and so arranged that it indicates the sex and con-dition of the decement

Hatchways, places or openings in the centre of a ship's decks, through which goods are lowered to or littodgroun the hold.

Hauberk, a name first given to a portion of mail armour worn over the neck and shoulders, but later applied to a coat of mail extending below the knees.

Hausas, an energetic West African people occupy-ing a tract of country between Lake Tchad and the Niger, and reputed to be of an enterprising spirit, with

strong trading instincts.

Hawfinch, a well known European bird of the finch family, thaving a variegated plumage, a sturdy bill, and black and white tail. In England it is seldom found away from the Midland and Eastern Counties.

Haw-haw, a fosse or ditch sunk between slopes for defensive purposes, and not perceptible until closely approached.

closely approached.

Rawk, a name applied to a diurnal bird of prey of
many species: incividing buzzards, falcons, kites,
ospreys, kestrels, etc. but only rightly ledonging to
the smaller kinds, such as the goshawks and sparrowhawks, which swoop down on their prey from a
height. There are only these two species in
England: in America hawks are numerous.

Bark-in with the claims most in the blass species.

Hawk-moth, the splinx moth, is a large species, thick of body and strong of wing, and files with

thick of body and strong of wing, and files with rapid swooping motion, hence its name. There are numerous handsome varieties in Britain.

Haymarket Theatree, "the little theatre in the Haymarket in London," has existed in one form or another since '1702, and has witnessed many memorable histrionic triumphs. It was here that the famous comedy company got together by J. B. Buckstone played for so long, here Charles Mathews, Mrs. Kendal, Amy Sedgwick, Adelaude Neilson, Sir Squre and Lady Bancroft, Mr. Beerhohm Tree, and many other "bright particular stars" of the footlights have appeared.

many other "bright particular stars" of the footlights have appeared.

Heart, the fount and centre of the circulation of the blood in human beings and other animals. It is the organ of the reception and distribution of the circulating fluid, dilating, contracting, and pulsating with the regular action of a force-pump. Its position is behind the breast bone, between the two lungs, and its beating is most apparent below the left imple, between the fifth and sixth ribs. The male best weight to fur a course, the female 8 to to

miple, between the fifth and sixth ribs. The male heart weighs to to 12 ounces, the female 8 to 10 ounces. Its average size is about 5 inches long, 3\(\frac{1}{2}\) inches wide, and 2 inches in greatest depth.

Hearth-Money was an impost put upon every hearth or fireplace in the country. Charles II, was responsible for its introduction, in 1662: it existed for over a quarter of a century, and yielded \$200,000 a year, William III. bookshed it, because of "naving been informed" that it was "very grievous to the neonle."

Heat, according to the modern scientific definition, is not a material substance, but molecular energy. This molecular motion consists, in the case of a liquid. of the irregular movement of its molecules; in a solid of the irregular movement of its molecules; in a solid the movements are oscillatory; and with gas the motions are rectalmear with swift alterations of velocity and direction as the molecules come near enough to each other. Cessation of motion results only at zero point. As to the transmission of heat, Lord Kelvin lays it down that "in the strictest modern scientific language, the word heat is used to denote something communicable from one body or piece of matter to another." The transmission of heat may be effected in three ways: by convection,

heat may be erected in three ways: by convection, by condiction or by radiation.

Reach, a plant of the Erica order, very widely distributed over the uncultivated spaces of Europe and Africa. In this country thousands of acres of waste lands yield it, it being especially abundant on the northern moors, and known as heather and ling. Some

normern moors, and known as neather and ling. Some of the African, or Cape heaths, are very beautiful, and are much cultivated by the florists.

Hebrews. Eplatia to the, one of the books of the New Sestament, to which no direct authorship can be assigned. Its chief mission was to proclaim. Christianity as the continuation and fulfilment of the older Jewish faith.

Hecatomb, the name given to the public sacrifice of a hundred oven in ancient Greece. In later times the word has been used to express any wigslesale acrifice of human beings or animals.

Hedgehog, a common insectivorous animal covered with sharp spines which it can, when on its defence,

with sharp spines which it can, when on its detence, project in every direction by rolling itself up into a ball. It is a hibernating animal.

Hegira, an Arab term signifying departure or flight, and used more particularly in reference to Mahomed's departure from Mecca for Medina, A.D. 602, prom which date the Mahomedian era is reckoned.

which date the Mahomedan era is reckned.

Haliograph, an apparatus used for sun-signalling, consisting of a movable mirror fixed on a tripod, which mirror fixed light reflections to a distant station according to a pre-arranged code, on the dot and dash system, forming an effective means of communication. Heliograph signalling can be carried on at very long distances—up to so miles in ordinary weather—without the aid of field glasses.

Heliometer, an astronomical instrument for investigating the parallax of the fixed stars, and consisting of a telescope which has had its objective cut through the optical axis, admitting of both halves being conjointly utilised, one directed on one star while the

other brings another into coincidence

Heliostat, an instrument comprising a mirror (secreted by clockwork) which reflects the sun's

rays continuously in the same cheection.

Reliotrope, a favounte sweet-scented flowering plant, common in tropical and sub-tropical countries; the Peruvian heliotrope is the "cherry pie" of our summer garden borders.

summer garden borders.

Heliotype, a method of printing from photograph negatives by the use of a chemically treated gelatine surface as from a lithographic stone.

Helium, a gaseous substance discovered in 1895 by Sir William Ranisay in clevente, urante and other kindred immerals associated with argon and nitrogen. It is also found in the gas given of by radium.

Hell, according to the teaching of the earlier Christian fathers, is a blace of eternal torong, it which the

fathers, is a place of eternal torment, to which the spirits of the wicked are doomed after mortal death, spirits of the wicked are doomed after mortal death. The Inferio, as magnitud by Dante, is even now believed in by m my, but in the general broadening of philosophic in-juny in modern times, the idea of this material hell has been greatly modified. The most orthodox of preachers in these days would heatate to proclaim his belief in the hell of burning fires an exception across the first processing a few generations are.

tate to proclain his belief in the hell of burning fires as accepted so generally a few generations ago.

Mellebore, a plant of the Ranunculacese order. The best known Brutsh examples are the green and stinking varieties. There is also a garden kind, which flowers in December. It is called the Christines Rose. Hellebore yields a bitter substance which forms a drastic purgative, but is now little used.

Melleniam is the pursuit of the Greek ideal of physicial and intellectual culture. Matthew Arnold's doctrine of "sweetness and light" had its foundation in Hellenian.

in Hellenisin.

in recients.

Relimet, originally a soldier's protective head covering, now a term applied to defensive head gear generally. In medieval times helmets were for the most part of metal, and varied in shape from reign to reign. Roman gladiators were helmets that covered the face entirely, and the helmets worn at tournaments in the 15th and 16th centuries were so clearly that the weather the superior could only term heavily the closed in that the wearers could only see through the perforations of the visor. The stiff hats worn by soldiers, policemen, and firemen generally are now styled helmets.

Helots, bondmen of ancient Sparta upon whom devolved the most menial occupations with at other

recompense than food and lodging

Helvetil, an ancient Celtic race who inhabited the
part of Switzerland of which the capital was Aventicum.

Aventicum.

Relvin, a mineral substance found in Saxony and Virgina, being a silicate of beryllium, manganese, and iron, and containing a small proportion of snilphur, which gives it a yeilowish hue.

Esmiptera, an order of insects most of which are known by the general term of "bigs," Their wing structure is in most species incomplete, hence the

term hemiptera. There are supposed to be some half million species, including plant lice, cicadas, etc. They feed on plant juices, masert and animal blood, sap, etc. The order has two main divisions, Heteroptera, indicating true bugs, and flomoptera, the lice classes.

Heteroptera, indicating true bugs, and riomopicies, the lice classes.

Hemisphere, half of the terrestrial or celestial globe. This, taking the equator as the dividing line, we have the Northern Hemisphere below it. Again, there is the geographical du ision of the Eastern and Western Hemispheres, the former comprising Europe, Assa, Africa, and their outlying islands; the latter including North and South America.

Hemiodk, a plant of the Umbellifera family, growing in all parts of Britain, and containing a strong alkaine poison. Used meticinally, this alkaline substance is of considerable service, being a powerful sedative. According to Plus, lendock was the poison used by the Athemans in putting criminals to death Hemps, a plant of the nettle family, growing abundantly in tropical countries, and cultivated for a valuable fibre contained in its bark. This fibre, which is obtained by inaceration, is tough and strong, and is largely used for rope making and in manu facturing coarse fabrics. It contains a resinous substance the healths moked by the Arabs.

facturing coarse fabrics - It contains a resinous sub-stance from which the hashish smoked by the Arabs is made. The seed yields a valuable oil, and is also largely used as bird food.

Henbane, a plant common in Britain and other parts of Europe and Northern Asia. It belongs to the Solanaceæ order, grows mostly on waste ground, and bears yellow-brown flowers veined with purple. The leaves yield a poisonous alkaloid substance which, medicinally prepared and administered, is of great use. Tincture of herbane is often preferred

to landanım.

to laudanim.

Henna, an Egypt'an plant bearing small white flowers, Mahonica's "chief of flowers," and the "camphire" mentioned in the Bible. The leaves yield a dye with which it is the practice of Eastern women to stain their nails, eyelds and hair.

Heptameron, a book of stories, written or compiled by Queen Marçaret of Navarre in imitation of Boccaccio's Decameron, and supposed to have

covered seven days in the telling.

Heptarchy, the name applied to the seven kingdoms into which I-ngland was divided after the kingdoms into which I ngland was divided after the Anglo-Saxon invasion, and lasting, with occasional variations, from 457 to 827—from Hengist to Egbert, the latter assuming the sole sovereignity in 827. The soven kingdoms were Kent; Sussex (including Surrey). Messex (Hants, Wills, Somerset, Dorset and Devon); Lissex (with Middlesex thrown in); Anthombera (all the country from the Humber to the Forth; East Anglas (Norfolk, Suffolk, and Cambridge); and Mexica, the Middland counter.

Heracleum, a plant of the Undelhiere order, com-

mon in Southern and Central Europe, though only one species, the cow parsnip, grows in England. It has a bitter root, and from the luice of the stem an intoxicating liquor is occasionally prepared.

Herald, an officer of state empowered to make formal proclamations and deliver messages from the sovereign or other high personage whom he served. In the Developments which took place in amorial learning, the herald was the functionary charged with the duty of their proper depiction.

Horsiday, the art or science of genealogy and armoral bearings, was mainly the outcome of the love of outward distinction which prevailed in mediaval times. "Heraidry," says Stubbs, "be came a handmaid of churdry, and the marshalling of came a handmaid of chivalry, and the marshalling of badges, creats, coat-armour, penuons, helm and other devices of distinction, grew into an important branch of knowledge." The sheld, or escucheon is the ground upon which armorial signs are traced, the colour of the sheld buling called the fineture, the signs recorded the charges. There are seven tintures—or (gold), argent (silver), gutes (red, arme (blue), ver (green), purpure (purple), and sable (black). The charges are classed as "Honourable" and Sub-ordinate," ordinaries, comprising lines and geometrical forms: 'and "Common"

ordinaries, which latter includes all representations of natural objects. There is also a system of axternal signs, such as crowns, coronets, mitres, helmets, finantings, wreaths, and crests, each having its distinctive significance. For other distinguishing marks use Supporters, Hatchments, Hadgus, etc.

Harald's College, or College of Arms, was incorporated by Richard III., ur 183. Its head is the Earl Marshal (an office hereditary in the family of the Dukes of Norfolk), and there are three Kingsof-Arms, six Heralds, an extra Herald, and four Pursuivants. The business transacted is wholly connected with the tracing of genealogies and the granting of armorial bearings. In Scotland the Heraldic functions are performed by the Lyon King-of-Arms, and in Ireland by the Ulster King-of-Arms.

Harbarium, a systematically classified collection of preserved plants. A special size of herbarium sheet is adopted for mounting the specimens, that of the United States being larger than that used in Europe.

Harbiyora, animals, especially mammals, subsisting upon grass, herbs, or other plants.

Harbs, a term used to designate all plants with succulent, non-wood producting stems.

Herbs, a term used to designate all plants with succulent, non-wood producing stems, whose leaves or flowers die down on the at proach of winter, in

or nowers die down on the approach of winter, in some instances the root perishing as well.

Heredity, the transmission of physical or mental characteristics from parent to offspring in successive generations. Thus, we have families of musicians, tamilies of financiers, families of artists, families of actors, families of soldiers, and so on, members of which, as a rule, may show the ancestral characteristics in a certain detress allowed the activities.

which, as a rule, may show the ancestral characteristics in a certain degree, although the striking genus may not appear except at wide intervals.

Baratora Cattle, a breed having a dark-red body, with a white face and breast, and sometimes a long line of white upon the back. They are hardy, good grazing animals, excellent for the butcher, but not useful for duarying purposes.

Haratios, a term applied to those who adopt a religious belief nonsed to that of the Cinstian Church in

belief opposed to that of the Christian Church in general, or to that imposed for the time being by a state. Before, and for some time after, the Reformation, heretics were severely dealt with, hundreds being burned at the stake; but opinions which made heretics in one reign were often those that proved the orthodox Christians of another.

Heriot, a fine or acknowledgment of service due to deriot, a fine of acknowledgment of service due to a manorial lord and paid on the decease of the tenant. I his form of tribute is still retained in con-mection with some copyhold ownings. In feudal times the heriot usually consisted of some portion of

nilitary equipment.

Hermaphrodite, a term applied to human beings,

BEFFIA: parcottee, a term applied to numan beings, animals, or plants, posses-sing both nucle and female generative characteristics. True hermaphrodites very rarely occur, so-called hermaphrodites being generally undeveloped as to either sexual distinction. Hermetic Philosophy, the doctrine or system propounded by Hermes Trisinegistus, an Egyptian of the and century, who was supposed to have written forty-two books devoted to religion and the occult sciences, which books were always kett under occult sciences, which books were always kept under secret guard, hence the term "hermethically sealed." These Hermetic Books were presumed to be copied from the more ancient sacred books of Lgypt, and the "Philosophier's Stone" was one of their chief propositions

Hermit, one who retires into seclusion for the purpose of religious contemplation, and a desire to live apart from the world. Hermits were regarded with great reverence in mechaval times and were

with great reverence in mediaval times and were free to wander from rountry to country. It was Peter the Hermit who instituted the first Crusade, Hermit Grab, a kind of crab having a soft fleshy body, without shell-protection. It possesses itself of the empty shell of some mediates, into which it backs itself, and this usurped shell it carries about with it thenceforward, or until it has outgrown its dimensions, when it seeks a larger one. The common Hermit Crab of Britain usually resorts to a whelk shell.

Heron, a large wading bird with long curved neck and pointed bill, is a member of the Ardeidæ family, of which there are many species. Egrets and bitterns

are included as herons. Herons are to be met with in mash lands and near rivers and lakes, where they feed on fish and frogs. They nest in trees in large numbers, these colonies being called heronries. The

numbers, these colories being called heronries. The common heron is native to England, and other species from the Continent are frequent visitors. Herring, a common sea-fish abounding in northern seas and always to be found in large numbers round the British coasts. The herring fishing is the most important fish industry in this country, a very numerous feet being engaged in it. The fishing season proper lasts from May to October, the enormous shoals being followed as they move from place to place. The spawning season is about the end of August. One femalehering will yield asmany asy, oco ages. The annual value of the British herring fishery is between Δ2,000,000 and Δ3,000,000, over half a million

August the annual value of the British herring nanery is between \$2,000,000 and \$2,000,000, over half a million barrels being cured in Scotland alone every year.

Beterogenesis, a term first used by Huxley to indicate the production of offspring, plant or animal, differing permanently in structure and habit from its more and the permanently in structure and habit from its more and the permanently and representing to a certain extent sponparent, and representing to a certain extent spon-taneous generation. In instances cited, however, there is a return to the original form after one or two

there is a return to the original form after one or two generations, a species of "spiny pocket" rodents, possessing cheek pouches, belonging to the fashly Saccomyina, and bulgenous to Trinidad. Baxagon, a figure consisting of six sides and six angles, called a regular lexagon when all the sides and angles are equal.

Hawahedron, a solid body having six sides, particu-larly exemplified in the cube, or regular hexahedron, Hawamater, a measure of verse consisting of six lect, the first four of which may be either spondes or dactyls, and while the fifth is normally a dactyl, the sixth must be a spondee.

Hexapla, a 3rd century edition of the Old Testament in parallel Hebrew and Greek characters, by Origen. Hexateuch, the title given to the first six books of

the Old Testament, comprising the Book of Joshua in addition to the five books of the Pentateuch.

"Hiawatha," the title of one of Longfellow's best-known mems. The hero is a being supposed by the Red Indians to be a spirit sent from realms of space

to lead them to a higher existence.

Hibbart Lectures, founded in 1878 by the bequest of John Hibbert, a West Indian merchant, their aim being to allow important matters of theology to be dealt with ive eninent authorities.

Hibernation expresses the dormant condition in which nunerous animals, reptiles, amphibians, in-sects, plants, etc., pass the winter. In the case of animals it is a deep sleep that they undergo, and is due probably more to the winter being the per-dennatural food is unobtainable than to the coid. Before hibernation sets in, the similar fatten them-selves up, but in spite of this there is consider-able loss of weight sustained. Animals of the torrid-regions pass through an analogous period during the hot season, when the sources of food are drued up.

Hiokory, an American tree of the walnut family remarkable for its very hard, solid, heavy white wood, and bearing an edible, four-lobed nut. Hiokory-shirt, an American term signifying a shirt

MIGROPY-Shirt, an American term signifying a shirt made from checked cotton stuff.

Hicksites were a small community of American Quakers, who separated themselves from the parent church, under Filas Hicks, in 1827, and held doctrines almost similar to those of the Unitarians.

Herarchy, a term applied to ecclesiastical or Church government, and involving a graded organisation with a representation.

tion with a supreme head.

tion with a supreme head.

Riezoftyphios are the carliest form of pictured symbolic expression, and are supposed to have been introduced by the ancient Egyprians. They consist of rude depictions of animals, plants, signs, and objects, and in their later examples express, in abridged form, ideas and records from which significant historical information has been gleaned. The deciphering of Egyptian hieroglyphics long formed an ardent study, but gradually the key to the riddle was discovered, and most of the ancient records can make the supposition of the suprementation of the suprementation of the ancient records can make the supposition of the suprementation. now be understood.

Eigenymites were hermits of the order of St. Jerome, established in the 14th century on the Peninsula. The order survives now only in America. Eindus are the native race of Hindustan, the Brahmins and the Rajputs being regarded as the purest types. They are mostly of Aryan descent, and their religion—Hinduism—is a faith evolved from a combination of Brahminism and Buddhsm.

Hippodrome, in ancient Greece, was a building set apart for horse and chariot races, and was often the

apart for norse and chanot races, and was often the scene of great spectacular performances.

Hippogriff, a fabulous animal, like a horse in body, but with the head, wings, and front legs and claws of an eagle. The monster frequently appears in the romances of the Middle Ages.

Hippoghagi, exters of horseflesh, applied specifically to certain nomadic tribes of Scythia and the north of the Caspian.

Hippoghagmus, the largest living representative of

north of the Caspian.

Rippoposamus, the largest living representative of the hog family, and widely distributed over Africa, where it is known as the "river-horse." It is of immense bulk, attaining a length of from 12 to 14 feet, and stands about 5 feet high. Its skin is hairless and about 2 inches thick, and it has a pair of tusks often weighing as much as 6 lb. In Britain fossil remains of a larger species of hippopotanius than any new system have been found.

Hippopure Acid, an acy calculation waster and

Rippurfe Acid, an acid soluble in warm water and forming into hippurates in association with metals. It is obtained chiefly from the urine of herbivorous animals, and when heated with a powerful acid resolves into benzoic acid and glycocoil. Rippurfs, a genus of plants growing in marshy places. It has an erect stem, bears polygamous flowers, and has its leaves in whorl form. Its actringent qualities render it of use in medicine. The

common Mare's tail is a well-known variety.

Histingerite, a hydrons iron silicate found in certain parts of Scandinavia, and named after Husinger, the Swedish mineralogyst.

Histology is that part of anatomical science which deals with those details of the human structure that can only be investigated with the aid of the microscope. Bistorfography, the art or avocation of the Instorant Bistice, an ancient race of northern Syria, referred to in the Old Testament, and rendered subject to Solomon, to whom they paid tribute.
Bobby, a bird of the falcon family, about 12 inches

long, seen in England in the summer, and formerly flown at small birds, which are its chief food.

flown at small birds, which are its chief food.

Robson's Cholee, a term meaning the compulsory acceptance of the thing offered, is an English proverbial plurase which had its origin in the circumstance of the letting of horses by a Cambridge innkeeper named Hubson, who compelled each customer to take the horse which stood nearest to the stable door, "that or none"

Hoogo, the common name of the curassow and other

Mocoo, the common name of the curssow and other birds of that family, of which there are twelve species, all natives of South America. **Hochheimer**, a Rhine wine of high repute, made from the yield of the vineyards of Hochheim, near Mayence, Germany. **Hog**, the common name of animals of the Sum family, including the wild boar, pig, and sow. The wild boar, Sis scroft, is the common ancestor. The edit of the hor is covered with bristles, the anout skin of the hog is covered with bristles, the snout truncated, and each foot has four hoofed toes. Hogs are ounnivorous feeders and eat almost anything that is given them.

is given them.

Rogmanay, the Scottish New Year's Eve festival and a national holiday of the country. The custom of demanding Hogmanay bread is still up.2rd in many parts of Scottand.

Rogmanad, a cask of varying capacity, also a specific measure. In the old English measure a hogshead was spi imperial gallons, or og old gallons of wine. Of beer 40 dig gallons make a hogshead.

Holland, the name given to a fine kind of cloth made from fiar, originally manufactured only in Holland. Brown Holland is the kind not fully bleached.

Rollands, Schiedam, or Schnapps, a kind of gin made mostly in Holland from rye and malt, with a favouring of juniper berries.

Holly, a hardy evergreen shrub, largely grown in England. Its bright dark green prickly curved leaves and its clusters of red berries are familiar in all parts of the country. Its wood is white and hard, and much valued for carved work, while its bark yields a gummy substance which is converted into birdline.

Holograph, a letter, manuscript, or document written throughout by its author.

Woldthruids. the class of manus animals commonly.

Holoth urides, the class of marine animals commonly called sea-cucumbers, a variety of which—the trepang

called sea-cucumbers, a variety or which—the trepang—is highly prized as a food in Chma.

Holy Allianoa, the league entered into after Waterloo by Russia, Austria, Prussia, and other powers, except England, for mutual protection of their dynasties and the prevention of any member of the Boulaparte family from occupying a European throne. The aliance only existed down to 1830.

**Columber 2. **Tenawa. a summent preserved in the

Holy Coat of Trewes, a garment preserved in the Cathedral of Treves and said to have been worn by Christ. It was brought from Jerusalem by the

Christ. It was brought from Jerusalem by the Empress Helena in the fourth century.

Holy Grail, the cup from which Christ drank at the Last Supper, and supposed to have been preserved by Joseph of Armathea. Many poets and romancers have made the "Quest of the Holy Grail" the subject of their unaginites, Tennyson making fine use of it in his "ldyls of the King."

Holy Rood, an annual Roman Catholic festival, on September 14th, to celebrate the recovery by the

September 14th, to celebrate the recovery by the September 14th to Constant the covery by Emperor Heraclius in 615 of a portion of the original Cross, after it had been lost for nearly 300 years and had fallen into the hands of the Persian. Also included in the Church of England calendar.

Holyrood, the ancient royal palace at Edinburgh, dating from the 15th control yand inhabited by many Scottish sovereigns, only yand Start, the rooms occupied by her (including the one in which Rizzio was inurdered) being still Shown. It has not

been used as a royal residence for 300 years.

Holy Water, water blessed by a priest and kept in small fouts at the entrance to Roman Catholic churches, and used by worshippers going in, and

out, or by priests in sprinkling.

Holy Week, or Passion Week is the week pre-ceding Laster Sunday, and includes the days of the Sufferings of Christ, ending on Good Friday

Sufferings of Christ, ending on Good Friday, Homage, an act of fealty whereby a person acknowledge, his service of inferiority to another. Home Rule, the term applied to a separate Irish Parhament, which was the object of two Bills introduced by Mr. Gladstone in 1886 and 1893 respectively, both of which were rejected, and led to the tively, both of which were rejected, and ted to the establishment of a Liberal Unionist party of seceding Liberals. Mr. Asquith introduced a new Home Rule Bill on February vz. 1912. In September strong counter demonstrations, headed by St. Edward Carson, took place in Ulster; on January 16, 2013, the Bill was passed through the Commons by a 2013, the Bill was passed through the Commons by a majority of 110, on the 30th of the same month being rejected by the Lords by 336 to 69. It was reintroduced by Mr. Asquith in the new session of 1913, again repassed by the Commons, and again rejected by the Lords. In 1914 the conflict between the opposing parties became more acute, but the Bill passed its third reading in the Commons on May 25. by a majority of 77. Meanwhile, the Ulster Volunteers on the one hand, and a force of Nationalist Volunteers on the other were organised, and there was much agitation. The King summoned a conference of party leaders to Buckinglam Palace and still no decision was reached; but on the outbreak of war party politics was set aside, and ultimately the Bill was allowed to pass and the Royal assent was given to it,

its operation to be delayed until after the war. its operation to be delayed until after the war. Homer, a Hebrew dry measure containing ten ephahs. Homelode (the killing of a human being) has three classifications—netsfabe, as when the killing is an act of necessity, or performed in the execution of justice; excusable, when done in self defence or by insadventure; and felomous, when done of deliberate intent, as murder, manshughter, and suicide.

Homily, something between a discourse and a ser-mon; not so discursive as the one, or so elucidatory

as the other.

Homocopathy, a medical system introduced by Hahnemann, the German physician, early in the last century, and founded on the principle that "like cursa likes" The homocopathic theory is that diseased conditions are curable by the administration of such drugs as would, if the conditions were healthy, produce symptoms similar to the disease itself. Homocopathic medicines are given in infinitesimal doses with the idea that the minute subdivision of a drug adds to the cover. Homocopathy has still many notessors. to its power. Homocopathy has still many professors and adherents, but it can hardly be said to have realised the expectations of its earlier exponents.

realised the expectations of its earlier exponents. Romocourians, religionists who, in the 4th century, in the contentions then raging regarding the
nature of Christ, maintained that the Son and
the Father were the same in essence, as against the
Homoiousians, who held that while being similar the
natures were not the same. The Homoousians are ometunes styled Athanasians, from their leader.

Sometimes system Attaination, that it is a state of the Money-bee, and some other insects, from flowers, and deposited by them in honeycombed cells as food storage. It is of a yellow-white colour, and is largely composed of water, electrove, and levulose. Fercomposed of water, dextrose, and levulose, ments when exposed to the air. (See **Bae**.)

monts when exposed to the air. Goe Bossis, if the Money Bearers, the name given to honey ants who receive from the workers the honey they have gathered, swallowing it and storing it in their bodies for the after-use of the workers as required.

Honeydew, a viscid secretion, from plants or plant lice, found on leaves, chiefly in hot weather, and looking like dew.

Honeysucker, an Australian bird (of which there are many species) provided with a long curved bill, and tufted tongue. It haves by sucking the "nectar" from the flowers which abound in rural parts of Australia and New Zealand.

Honours of War, a privilege sometimes conceded to a defeated force of marching out of the place sur-rendered with colours flying and drums beating.

Hookah, an Oriental pipe or apparatus for tobacco smoking, the smore being drawn through the water of a glass goliet by means of a long flexible tube. Hook-money, an old silver currency of Ceylon, consisting not of comage, but of hooked pieces of

actual silver, in use in the 17th century. Hoopoe, a peculiar bird, with a movable semi-circular crest on the top of its head, and a long, slightly curved bill. It is a native of Africa, and one of the six known species migrates to Europe, occa-

sonally visiting Britain

Hop, a familiar twining plant largely cultivated in the
southern, south-eastern, and south-western counties of England for its temale flowers, used mainly for for Ingana of the steamer moves that are trained upon poles, and in the atturns the flowers are picked by hand, an immense number of persons being engaged in the harvesting of them. The Flemings are said to have introduced the hop plant to England, about the time of the Reformation.

Hop-fly, the name of an insect of the Hemiptora order, which preys upon the hop and certain other plants, and sucks the juice from them, acting like a blight when the valiation is numerous.

Hoplia, a genus of beetles, peculiar in having the lowest abdominal segment short and the pygidium vertical. They are found in most parts of the world. Hoplite, the name given to a heavily armed foot soldier in ancient Greece, carrying a shield and

is the many a term to reach, carrying a since the same and savelin, and wearing a helinet and armour.

Horary, a term used of the arc which a celestial body describes in an hour, or the angle which that arc subtends, the eye of the onlooker being supposed to

be at the angular point.

be at the angular point.

Morison, the hinit of vision, the apparent line where
see and sky, or land and sky, meet. This is termed
the sensible or visible horizon. The astronomical
borizon is a plane which, perpendicular to gravity at
any point, divides the realestial sphere into two equal
portions, upper and lower halves. There is also an
artificial horizon, consisting of a surface of mersury
or other fluid, whereby the altitude of any particular
star cast be reckoned.

Berg. a wind musical instrument, usually of brass

and of varying sizes, shapes, and musical power, ranging from the long coaching-horn to the small hunting-horn. The French horn is formed of a continuous twisted tube, and furnished with a movable

mountpiece

Mornbill, a large bird, remarkable for its having an
immense horned upward curved helmet, growing
over its downward curved beak. It inhabits tropical
rezions, and feeds on fruits. When the female has over its downward curved bear. It inhants tropicas regions, and feeds on fruits. When the female has laid her eggs in the hollow of a tree, the male-bird stops up the entrance, and keeps her imprisoned until the hatching is completed and the young ones are

able to By.

**Borneblende, a hard common mineral, a silicate of calcium, magnessum, iron and aluminum, of a dark green colour. It is a constituent of numerous rocks, actuding dioute, syemite, and homeblende schist.

**Horn Book, a children's alphabet and primer which had a cover of thir. horn; hence its name. It was in

use until about a hundred years ago.

Horned Vipera, a curous Atrican genus of Viperlde, with a small pointed bene over each eyebrow; a venomous species, found in Egypt, is thought by some to be identical with the "adder" mentioned in Genesis xhx. 17.

Hornets are well-known insects of the wasp family, and live in communities, generally nesting in hollows of trees. The horner's sting is very painful.

Hornpipe, an old English single-step dance, which used to be executed to the music of an ancient horn-

supe, hence its name.

Hornstone, a dark, flint-like rock, largely used for

fint tails in potteres.

Hornywink, a popular name for the lapwing.

Horology, the science of time-measurement, including the construction and management of clocks, watches, etc Instruments of this kind are not known to have existed before the 12th century, and until the introduction of the pendulum in the 17th century, clocks were ill-regulated and maccurate. recording mechanisms of the present day include (a) the clock, which shows the hours and minutes by hands, and strikes the hours, and sometimes quarters; (b) the timepiece, which is not generally a fixture and shows the time, but does not strike; (c) the watch, which is a pocket time-keeper; and (d) the chronomoter, which indicates the minutest portions of time.

Horoscope, an astrological term, indicating the read-

ing of the signs of the planetary bodies, according to the methods of the astrologers, at the date of a personal

methods of the astrologers, at the date of a personal nativity, or other given date. It ancient times there were astrologers attached to the vanous courts, and their "castings" and predictions had many believae... Horse, in its domesticated form, one of the most familiar of quadrupeds. How, when, or where its first domestication took place is unknown. The wild horses of the present day can be traced to have descended from domestic breeds which have broken from restraint, such as the wild horses of the South American manners and of Tartary. The two deduces from restraint, such as the wind horses of the South American pampas, and of Tartary. The two leading types are the Arabian, whose strain is apparent in the racehorse and other animals in which speed is the pronounced characteristic, and the powerful Flemish horse which has contributed the elements of strength and endurance to the various breeds of draught The anatomical features of the horse are too well known to need description.

Horse Chestnut, one of the large forest trees, with ample branches and full tolinge, and much esteemed for parks and ornamental grounds. The bark and

for parks and ornamental grounds. The bark and fruit seeds yield substances of commercial value, but the timber is not worth much. The tree came organily from Asia about the 10th century.

Horse Guards, the building in Whitehall which until 1872 was the headquarters of the Commander-in-Chief of the British Army. The archway is still sentinelled by mounted guards.

Horse, Master of the, the Court official having charge of the royal stables. It is a party appointment and carries with it a salary of \$\frac{\pi}{\pi}\$,000 a year.

Hospices a place of refuge and rest for travellers and pilgrims. The most famous is that of the St. Bernard Pass, where dogs are kept for the succour and help of belated wayfarers.

Hospitaliers, Knights, were of the order of St. John of Jerusalem, at first devoted to the aid of the sick, but afterwards military monks, who Recame prominent figures in the Crusades of the 1sth century, and after successive defeats were dispersed and ied and after successive defeats were dispersed and led an unsettled existence shifting from place to place, until in the 16th century they had the island of Malta given to them, and continued there until dislodged by Napoleon in 1798. In recent times there has been some attempt to revive the order on a firmer basis, and the modern English institution of Knights of St. John serves to commemorate the old name and to continue something of the original service.

Hôtel des Invalides, the famous military hospital

Rôtel des Invalides, the famous military hospital and soldiers' home in Paris, founded in 1670, and one of the attractions of the city in later years, from the fact of its containing the tomb of Napoleon.

Rottentots, an African native race of considerable intelligence, mostly following the pursuits of herdsmen and hunters, and numbering some 200,000 Hounds are dogs that were originally bred and trained for hunting, such as the greyhound, forhound, bloodhound, wolfhound, deerhound, beagle, harrier, etc., but now often kept also as domestic dogs. The greyhound, doerhound, and wolfhounds hunt by sight, the others, with the bloodhound first in order, track by scent. in order, track by scent.

Hour-glass, a glass instrument tapering to the middle to a narrow onfice, through which a sufficient quantity of fine sand gravitates to mark an hour of time. When the sand has run through from one entl, it can be reversed and made to count the hour in the opposite direction. The same kind of glass with smaller supplies of sand will indicate shorter periods,

sanate suppose of saint win intuited sainter persons, as an egg-glass which runs its course in three minutes—time to boil an egg by.

Rouris, according to the Koran, are beautiful nymphs of paradise set apart to attend upon the "faithful" Malioumnedan as they enter the celestial

abode.

House-boat, a boat fitted up with living, sleeping, and cooking apartments, and serving for temporary occupation by families or pleasure parties in making river excursions. In England such boats are mainly confined to the Upper Thames. In Eastern countries to the Upper Thames. tries house-boats that are permanent habitations are common on the big rivers.

common on the big rivers.

Household Brigade, a body of soldiers retained for the special service of guarding the king and garrisoning the capital: consisting of the three cavalry regiments of the Royal Horse Guards and the ist and and Life Guards, and four foot regiments—the Grenadier, the Scots Fusiker, the Coldstream, and the Irish Guards, comprising in all some 9,000 men.

House Files abound in all countries, and are exceedingly prolific. Their eggs are hatched within a hours of being deposited, and full ratumty is attained in a month. They feed mainly on decayed animal and vegetable matter.

and vegetable matter.

Hovas, the dominant tribe in Madagascar until the French took possession of the island in 1895.

Howite, the name of a white earthy mineral of some

what uncertain composition, but generally described as a hydrous carbonate of aluminium and calcium. It

Howdah, a railed, canopied seat fitted on to the back of an elephant for conveying people in. The name is also given to a somewhat similar controvance for the backs of camels.

for the Dacks of camels.

Howitzen, a cannon, short and light in proportion to its lore, used for throwing shells and case-shot, and requiring a comparatively small charge.

Howiling Monkey, a species of South American monkey noted for a laryngeal conformation which enables it to enut a loud reverberant noise something between a yell and a how!; hence its name. The peculiarity is developed most strongly in the males, which are the largest American species.

peculiarity is developed most strongly in the males, which are the largest American species

Hoy, a small sloop-rigged vessel usually engaged in light traffic, such as conveying passengers and goods from the shore to steamers, or vir versa.

Huanuso-bark, a medicinal bark, brought from the Penvian town of that name, and derived from the Cinchona micrantha tree.

Huckaback, a kind of strong linen cloth, with one

Huckaback, a kind of strong linen cloth, with one side rough; generally used for towellings.

Huguenots, a name applied to the French Protestant communities of the sich and zyth centurjes. Under Francis I. and later monarchs they were subjected to many persecutions, and at times were in active conflict with the Catholics. Henry of Navarre, by the Eddict of Nantes in 1398, granted them religious freedom, but more than a quarter of a century before-August 24th, 1572-70,000 of them had been put to death in the Massacre of St. Bartholomew. In 1895 they were further persocuted by the revocation of the Eddict of Nantes by Louis XIV., when hundreds of thousands left the country never to return, a large of thousands left the country never to return, a large proportion of them taking refuge in England, where they greatly helped in the development of many

industries. Bulsean Leotuves, a series of from four to six lectures delivered annually by a selected preacher before the University of Cambridge on scriptural subjects, under the provision of the will of John Hulse, who dued in 2700. There is also a Husean professorship of divinity at the same university, established in 2800 in substitution for the office of "Christian Advocate" originally founded by Hulse. Humane Bootlety, Royal, dates from 174, gives rewards and medals for the saving of life or attempts to save life of the number of many bundrate acrossible.

to save life to the number of many hundreds annually, expending nearly £2,000 a year in that object. It provides hoatmen to watch over the swimmers at the chief bathing-places round the coast.

Humanitarian, one who holds the belief that Christ was only human, that the whole duty of man is summed up in the performance of good deeds, and

that Divine aid is not necessary to a perfect existence. **Humble-bee**, the common name of the insects of the genus *Rombus*, of the Hymenoptera order. They the genus Rombus, of the Hymenoptera order. They live in small communities comprising males, females, and neuters, their habitations being underground. They do not have one queen bee only like the hive bee, but several females occupy the same nest, and these alone live through the winter, breeding and forming new colonies in the spring.

Humite, a mineral of the Chondrodite variety, crystalline and translucent, brownish-vellow to white in colour, composed of magnesia, silica, fluorine, and protoxide of from.

protoxide of iron.

Humming Birds are so called because of the humming Birds are so called because of the humming noise made by the vibration of their wings in flying. They are of radiant plumage, bright crinison mingling with lustrous green, with other iridescent colours flashing and shining, and in size they are among the smallest of birds. There are from four to five hundred species, and they are confined wholly to North and South America, being nost numerous in the tropical latitudes.

Hummun, the operium name for what is now called

the Turkish Bath in this country. One of the first of these baths to be established in London was the

these baths to be established in London was the Humnums in Covent Garden

Hundred, the ancient divisional name given to a portion of a county for administration or military purposes. The origin of the name is somewhat obscure. By some it is supposed to imply the territory occupied by a hundred families; by others the space of a hundred hides of land, or the capacity of providing 100 soldiers. Each hundred had its hundred court, with powers similar to those of a manor court

maior court.

Hundred Days, the period that derives this title from the fact that it covers the time within which Napoleon I, escaped from Elba and was finally over thrown at Waterlon, March to June, 1815.

Fundred weight in Great Britain is 110 in a boot poly: in the United States it is an even 100 lb. The English cwt. is divided into four quarters of 36 lb. each Hundred Years' War, a term applied to the almost incessant contest between England and France, lasting from 1338 to 1435, including such famous battles as Crecy, Politers, and Agincourt, and engaging successively Edward III. Henry V., and Henry VI., among English kings.

Huns, a ferre Assatic race which swept over Eastern Europe in the 4th century, and took possession of the

country between the Volga and the Don, Attila being their formidable leader. They defeated the Goths and forced the Romans to pay tribute. When they lost their chief, however, in 454, they were soon driven back, and it is doubtful whether any of the present races of Eastern Europe are their direct descendants.

descendants.

#unterlan #useum, a celebrated collection of anatomical specimens originated by John Hunter, the distinguished surgeon and physiologist, towards the end of the 18th century in London, and now in the possession of the Royal College of Surgeons. Dr. William Hunter, the brother of the great anatomist, also founded a Hunterian Museum at the University of Glasgow.

University of Glasgow.

Rurdy-Gurdy, an Italian rustic so-called musical
stringed instrument of the lute order, the sounds of
which are produced by the action of a rosined wheel
turned by the left hand, the notes being made by
the fingering of the right hand.

Rureaulite, a transparent, almost colourless inheral,
found in grante measures at Limoges, near Hureau.

found in grante measures at Limoges, near Hureau. Furricane, a tempest or violent storm, such as pre-vails with frequency in the Chima seas and the Fast and West Indies, often occasioning great havoc.

Fusars are represented in the British Army by twelve regiments. The distinguishing portion of the uniform consists of a fur busby with a cloth orna-

were regiments. The distinguishing portion of the uniform consists of a fur busby with a cloth ornamentation hanging over the right side. They are armed with carbine and sabre.

Russites, followers of John Huss, the Bohlemian reformer, who was burned at the stake in 1415. After their leader's death, the Hussites became a formidable body, and took up arms on helsalf of their faith, their religion being strongly imbued with political feeling. They were subdued in 1434, and later were absorbed by other Protestant sects.

Hymna, a carnivorous quadruped of which there are three species: the striped, or laughing hyzena, common to North Africa, India, Syria, and Persia, and noted for the peculiar cry from which its name is derived; the brown hyzena, with long shagey hair, anative of Southern Africa; and the spotted hyzena, also confined to Africa. They have all great jaw-power, live on carrion, and are of nocturnal habits.

Ryalograph, an instrument designed for trucing

Hyalograph, an instrument designed for tracing upon transparent surfaces.

Hybrid, an animal or plant produced by the union of

wo distinct species.

Hydra, a peculiar aquatic animal of simple structure, whose body is in the form of a cylindrical tube, with a disc-shaped base by which it attaches itself to any shifting substance. Its mouth is surrounded by tentacles by which it catches its food. The Hydra has the power of reproducing lost parts.

Hydrates, are compounds formed by the combina-

tion of metallic oxides with water, or the union of water with salts. The most ordinary forms of hydrates are caustic soda, caustic potash, and

slaked lime.

siaked lune.

Bydraulio Press, perfected by Joseph Bramah, the inventor, in 1796, is a useful apparatus, the pressing power of which is obtained by the action of water. I wo plates, the upper one movable and attached to a large piston, the lower one fixed, are contained within two uprights. The movable piston works in a cylinder of water in commection with a small force-pump, and the pressure is applied by moving a lever which brings a well-known hydrostatic law into operation, and presses the material between the two plates to the required degree. The stanc law into operation, and presses the material between the two plates to the required degree. The hydraulic press is largely used for compressing articles for packing, and for extracting purposes. Hydraulic Ram, a form of automatic pump, used to raise water to a height by the action of its own falling velocity. Hydraulies, the science of applied hydrodynamics, or water-machine engineering, ranging from pumps to marine curious.

to marine engines.

Hydrocarbons are compounds of carbon and hydrogen, forming one of the principal groups of compounds and with their derivatives constituting the main concern and source of organic chemistry. They are classed as gaseous, liquid, and solid, acceding to the proportions of hydrogen or carbon they contain.

they contain.

Hydrochloric Acid, a colourless gas, consisting of hydrogen and chlorme, and resulting in considerable quantities as a bye-product of the soda-ash or salt-cake manufacture. It is solution forms the common hydrochloric or muriatic acid of commerce, and is largely utilised in dyeng, calco-printing, bleaching, and in the production of chlorine. It has a suffocating odour, and is one of the elements of digestion, mydrogen or prusse acid; very poisonous, and of the odour of bitter aimonds. Discovered by Scheele in 1782.

Hydrodynamics, the source of the application of the laws of dynamics to fluids, and covering both

the laws of dynamics to fluids, and covering both fluids in rest and fluids in motion.

fluids in rest and fluids in motion.

Hydrofluoric Aold is obtained from a distillation
of fluorspar with subpliuric acid, and is a compound
of fluorine and hydrogen. Its action is highly
corrosive, it is a valuable agent in etching on glass,
and is a rapid decomposer of animal matter.

Hydrogen, a colourless elementary matter and
the lightest of all substances, on that account being
accepted as the standard unit of the specific gravity
of glass. It is 12/4 times as both as air, and is found

of gases. It is 142 turnes as light as air, and is found in a free state in volcanic regions and in the the emanations of oil wells. It can be obtained by the action of acids on metals, or metals on water, and when burned out the air combines writi oxygen to form water. It is a necessary element of life.

form water. It is a necessary element of life.

Hydrography, the science of water measurement, as applied to seas, rivers, lakes, currents, rocks, reefs, etc., and embracing the whole art of navigation

Hydrometer, an instrument for measuring the specific gravity of water and fluids generally, and especially for ascertaining the strength of spirituous inquors and solutions. It is usually in the form of a glass bulb, to the lower end of which a smaller bulb, containing necessary is attached which forces the grass buto, to the lower end of which a smaller buto, containing mercury, is attached, which forces the instrument to sink into the hould which it is to test. The larger bulb has a scale fixed to it and the indication on this scale of the sinking point shows the specific gravity. There are many varieties: Twaddell's—a pear-shaped bulb containing mercury; Heaume's, of similar construction, but applicable to lounds both honever and hother than water; Swies's. iquids both heavier and lighter than water; Sykes's

arguite born neatter and igner than water; Systes largely employed for determining the strength of alrobol; and Nicholson's, used for taking the specific gravities or both solids and liquids.

Hydropathy, the science of water treatment of diseases, which has been practised more or less from the earliest times. In modern days this science has been greatly systematised, and hydropathic establishments of an extensive kind have been set up in many healthy resorts. As to the medical value of the cold-water cure there is little doubt that the general coll-water cure there is little doubt that the general conditions brought about by hydopathic treatment—such as boths (sulphur, electric, mustard, medicated, etc.), packs, fomentations, etc., together with the accompanying advantages of pure air, exercise, and rigid dietary—have in most cases a salutary—frict. In the later developments of hydropathy a prominent part has been played by Mg. R. Metcalfe, one of the very earliest and most successful of its professors, at the well-known "hydro" at Richmond, Surrey, where modicate charges and efficiency of treatment rule.

Hydrophilus, the largest genus of water beetles, including the gant water beetle, which is of a shiny black and measures 14 inches in length, and is common in N. America. There is also a European species (H. phens), which is not quite so large. Hydropholia, rabies resulting usually from the bite of a mad dog; a dreadful coutagious disease the result of a specific poison, for which it is claimed. Pasteur's method of inoculation is an antidote. Hydrozatios, the science of the pressure and equilibrium of liquids that are non-clastic. Hydrophilus, the largest genus of water beetles,

equintrium or indust state remeastat.

Hydrozea are, zoologically, a low order of water
animals of the Calenterate sub-kingdom, and in
structure similar to the hydra. There is a sac with a
mouth at one end, and at the other a disc by which the anunal fixes itself to some other body.

body comprises an outer and inner membrane, with

body comprises an outer and inner membrane, with stomach cavity, and prehensible tentacles, git is a widely distributed and endlessly varied genus. Bydrue, a constellation of the southern celestlal hemisphere introduced by Bayer, in the 16th century, comprising three stars of the third magnitude, and situate to the south of Eridanus; commonly called the Southern Snake.

Bytene, the science of health in its broad signif-cance, the study of sanitary conditions, and the application of the laws of health generally. The progress made in hygienic science during the last hundred years has been highly important, and has

hundred years has been highly important, and has led to many hegislative enactments and preventive measures which have resulted in a great improvement in the general standard of public health.

Hygrometer, an instrument for measuring from moisture of the atmosphere. That of Daniell is the best known, and consists of a bent glass tube, with two bullous ends, one of which is enclosed in a muslin covering, while the other is of black glass, with a thermometer and a quantity of ether inside. By the dropping of ether on the muslin bulb a conmeeting evaporation is set up which enables the measurement to be taken. A very simple kind of hygrometer is composed of a wet and dry bulb each supported by a thermometer affixed to a frame on which a scale drawing appears The two mercury columns act upon a movable undex point which indi-

columns act upon a movable undex point which indi-cates the degree of humidity.

Bymenoptera, the order of insects of which bees, wasps, hornets, ants, and sand-files are the most familiar examples. They are notable for having four wings, the hind pair smaller than the front pair, to which they are attached. They have mouths and tongues which enable them to bite and suck, and the females possess an ovipositor, used both for depositing eggrs and stinging. Nearly a quarter of all known insects are of this order.

Hyopotamus, the name given by Sir Richard Owen to a genus of fossil animals of the hippopotamus order, romains of which have been found in England and other parts of Europe in the Tertiary strata.

Hyperbole, a rhetorical term implying extreme exaggeration for the sake of effect, and often indulged in by emotional orators, as well as in ordinary speech.

Hyperboreans, a fabled people which the ancients believed existed beyond the region of the north wind, and later the term has been applied to the actual people of remote Northern lands.

Hypersthene, a crystalline mineral of a grey-green colour, found foliated and massed in igneous and metamorphic rocks. It was at one time regarded as horneblende, and was called Labrador horneblende. It is a silicate of iron and magnesium, and has been met with in Cornwall, Northern Europe, the Tyrol,

and North America.

and North America.

Hypotelam, a somnambulistic condition of the body, induced by mesmeric influence, and involving temporary loss of taste, touch, sight, and feeling. The operator controls the will of the hypotic subject to a large extent, but the power of producing the hypnotic state, as well as the peculiar nervous condition necessary to its being induced, is not common. Hypnotism, however, has been surrounded by so much exaggeration and imposture that it is still far from being accurately defined or understood. There have been instances of surgical operations performed while patients have been hypnotised, and many cases of hypnotic power being exercised for evil ends have been cited, but in these matters there is ge. zerally more mystery than reality.

been cited, but in these matters there is generally more mystery than reality.

Hypocaust, an arched hre want or chamber through which heat is distributed to rooms above. Used in the baths of ancient Rome.

Hypostyle, an architectural term, designating a colonnade or pillared hall, such as in the famous hall of the colonnal of the c of Karnak.

Hyposulphite, the "hypo " of the photographer, is a salt of hyposulphurous acid; hyposulphite of sodium

a sait of hyposulphurous acid; nyposulphuro is largely used in medicine, is largely used in medicine. Hypothee, a Scottish legal term implying a landlord's lien in his tenant's cattle, sheep, and produce

for rent. No right of hypothec has existed since 1880, where the land exceeds 2 acres.

Hypothanuse, the name given in geometry to that side of a right-angled triangle which is opposite to, or subtends, the right angle.

Hypothesis, an imaginary theory set forth in such a manner as to illustrate by parallel the force of some other theory which it is sought to demonstrate.

Hyrax, a peculiar animal of the Hyracidæ family possessing a cleft upper lip like the hare, molar toeth shaped similar to those of the rhinoceros, and in other respects showing ordinary rodent characteristics. It has a brown fur, and is confined to Africa, Syria, and Arabia.

Hyssop, a labrate plant, with blue flowers, growing wild in Southern Europe, and yielding a kind of camphor; at one time largely used medicinally as an anti-spasmodic and carminative.

Iambic Verse dates from the time of the classic poets, and has been a favourite form of verse of succeeding times and many countries. Its charac teristic is alternate short and long syllables. It is the ordinary heroic measure when it rhymes in couplets, and unrhymed is blank verse. Each line must consist

and unraymed is blank verse. Each line must consist of five feet, a foot being a short and long syllable.

Ibex, a wild goat found in the mountain regions of Europe, Asia, and Africa. It is of a reddish-brown coloni, and has exceedingly large curved ridge 1 homs.

Ibis. an Egyptian bird found mortly in lakes and swamps. It has white and black curved plumage and a long curved beak. One species is the sacred this of Fourt. which is held in great veneration by

and a long curved heak. One species is the sacred lus of Egypt, which is held in great veneration by the people. There are 20 species in all.

Ibyotar, a South American Gallinaccous eagle, mostly black in plumage, and belonging to the Falconklae family, genus Aquilina. Its head is almost bare of feethers, and it has circular nostrils.

Ice is water frozen to a solid condition, but lighter than water. It is brittle and transparent, and has a specific gravity of nearly o'cs. Ordinarily ice is produced naturally in cold seasons, freezing beginning at 32 deg. F., but it is also obtained in enormous at 32 deg. F., but it is also obtained in enormous quantities artificially by means of ice machines for domestic and commercial purposes.

domestic and commercial purposes.

Icobergia are detached masses of glacier which subside into the sea and float as wind or current may take titem. The North Atlantic is the chief home of icebergs, which reach the ocean from the ice-clad plateaux of Greenland. Some of these floating masses of ice are of enormous proportions, and constitute in the spring and early summer seasons a great menace to the safety of ships, as was disastrously shown in the Titanic catastrophe of 1972.

Iceboat, a boat used either for breaking a passage through ice, in which case it is usually steam propelled; or a boat with masts and sails and mounted on runners for sailing on the surface of the ice.

on runners for sailing on the surface of the ice.

Ice-breakers are heavy bow-plated boats used for breaking up ice on navigable waters, and, on the Battic and on the St. Lawrence in Canada especially, have the effect of considerably shortening the icebound period each winter.

Ice-floe, a small ice-field or sheet of floating ice, liable to be frozen to other ice-floes, imprisoning any hip enveloped.

Iceland Dog, a kind of white shaggy dog which was in former times a great domestic favourite, but

was in former times a great domestic favourite, but is now little seen in this country.

Loclandio Litterature, the Old Norse, which includes numerous works of poetry, mythology, and history of considerable interest and importance.

Locland Ross, a kind of lichen grown in great quantities in the mountain regions of Iceland and other Northern countries. It possesses certain nutritive qualities and is of some value in medicine.

Locland Spar, a colourless form of cale spar, frequently found in association with metallic ores; it is called also double-refricting spar, and its refers are

called also double-refracting spar, and its prisms are used for the polarisation of light.

Iden1, an ancient British race who in early times lived

in Norfolk and other parts of Eastern England. Their most famous ruler was Queen Boadices, who

led her people against the Romans.

Ice Plant, also called "dew plant" and "diamond plant," is a native of Greece, the Canaries and some parts of Africa. It desives its name from the fact that it is covered with watery pustules that look like ice

Ice-sheet, a term designating an extended glacier, occupying large territories, such as the Antartic Continent of Greenland. Ice-sheets are of immense comment of Greenland. Ice-sheets are of immense power and in their onward course assume a mighty force. The term also refers to the geological glacial formation of a former period.

Ichabod, signifying "the glory is departed," was the name of the son of Phineas, born after the latter was killed in fighting against the Philistines.

Ichneumon, a carnivorous animal of the civet fanuly, abounding in Irgynt, where it is popularly known as "Pharaoh's Rat," and is of great use in checking the multiplication of reptiles. It is frequently domesticated, and performs useful service in

keeping down pests.

Ichneumon Fly, a numerous order of hymenopterous insects abounding in many lands, and all having the one peculiarity of depositing their eggs in the bodies of other insects. It destroys swarms of caterpillars, who become the unwilling hosts of its

Ichnography, the art of drawing plans of every-thing connected with the ground floor of a building

Ichthyol, a liquid used for rubbing on the skin in certain diseases, and obtained by distillation of a mineral in which fossil fish is found.

Ichthyology, the department of zoological science which concerns itself with the structure and variation of fishes, their habits and distribution

Ichthyornia, a fossil bird discovered in the cretaceous strata of Kansas, and supposed to afford evidence of the evolution of birds from vertebrates, having had teeth though otherwise of bird form.

Ichthy osaurus was a gigantic lizard of the mesozoic age. The fossils are mostly found in the lass formation. Some were not less than 30 feet in length, and are slown to have been amphibam. Iconoclasts were originally an Eastern sect of the

8th and oth centures, whose object was to prevent the worship of, and to destroy, images used in reli-gious rites. The term has been applied in modern times to enemics of religious beliefs generally. Charles Bradlaugh was for a long time known as "Iconoclast"

Idea, in its platonic significance, had reference to what a thing seemed rather than the actuality, but in later philosophies an idea is, as Locke expresses it, "whatsoever the mind perceives in itself."

Idealism is the theory, according to Kant and other philosophers, that "objects are not there till they are thought" Idealism, however, takes many shapes—the transcrudental, as with Kant, the sul-jective, as with Fichte, and the absolute, as set forth hy Hegel.

Ides were distinctive periods in the ancient Roman Calendar being the eighth day after the nones in each month.

Idioelectric, substances which manifest electricity in their natural state

Idiograph, a mark, signature, or flourish peculiar to any individual; a trade mark is an idiograph. Idiom, an expression characteristic of a country, district, dialect or language, which suitally gives strength and force to a phrase or sentence. The idioms of a language are its distinctive marks and the

best writers are the most idiomatic.

Idiothalamese, a tribe of lichens, having shields first closed, then open, with the nucleus made up of

relatinous naked spores.

dolatry, the worship of idols, images, inanimate objects, animals or symbols. A kind of idolatry existed in all primitive modes of existence, and instances are numerous in the earliest records. Iddiatry, however, as we now inderstand the worship of idols among the is mainly applied to the worship of idols among the Indian. Chinese and other races where ancient superstitions and practices survive. In their more symbolised form images have a considerable part in the rites of the Roman Catholic Church.

Idols are images or effigies which are made objects of worship and are usually of wood or stone, but some-times of ivory or more precious materials, and attain times of fvory or more preclous materials, and attain their symbolic significance after being put in the places destined to receive them, when they are made objects of veneration by some religious dedication. It does not detract evidently from the superstitious potency of an idol that it may have been manu-factured in Biruningham. Idrils, a famous giant belonging to the myths of Wales, commemorated by a chair of rock on the top of the Cader Idis mountain.

Cader Idris mountain.

Idyll, a poem or story of a simple or pastoral character dealing with rural characters and events for the most part, but sometimes used in a broader sense, notably in Tennyson's "Idylls of the King," which are of a

part, but sometimes used in a broader sense, notes, in Tennyson's "Idylis of the King," which are of a districtly imaginative form.

Ignatian Episties bear the name of St. Ignatius, and in their several form exercised great influence in medicaval times, but incre confrovers raged around them in the 17th century, because of their strong support of episcopiecy, and a good deal of doubt was thrown upon their genuineness.

Igneous Rocks are such as have been caused by the action of great heat, or volcance disturbance, and include two main groups—volcance or eruptive and plutonic or irruptive

Ignis Fataus, or "will-o'-the-wisp," a phosphorescent light which may offen be seen on summer and autumn evenings hovering over marshy ground. Its nature is hardly understood, though it is generally believed to be the result of the spontaneous combustion of decomposed matter. In olden times when marshy grounds were more common than now, this marshy grounds were more common than now, this "dancing light" was very frequently visible and was regarded with superstition.

Ignorantines, a Roman Catholic Order founded in 1679 by the Abbé de la Salle, Canon of Rheims, and intended for special ministration among the children of the poor. The name "Ignorantine" was given to them because of their being prohibited from learning or teaching Latin.

or traching Laun.

Iguana, a large South American lizard of very pecular structure, with a long tail, a scaly back and head, a thick fleshy tongue and a prominent dewlap in the a throat. It averages from four to five feet in length, lives mostly in trees, and its flesh is good eating.

Transaction as a sumple of the guano family long ex-

Iguanodon, an amin'd of the iguano family long ex-tinct, whose fossily are found in the cretaceous rocks. It must have been an innuense creature. A skeleton unearthed in Belgium stands 14 feet high and is 28 feet long. They are supposed to have walked on their hind legs.

Ilax, an evergreen oak that flourishes best in Italy, though thriving well in England and other countries.

Iliad, the great epic poem of ancient Greece, supposed mad, the great epic poem of ancient treece, supposed to have been written by Homer, though, according to some modern critics, the poem represents the conjoint work of many authors. The story it deals with is that of the "Siege of I roy," which had its origin in the attempt to re-capture Helen, who had been carried off from Sparta by Paris. It is a wonderful gallery of portraits of heroes and warriors and gods and goddesses, and maintains the true epic level throughout.

Illuminated MSS. of great value and beauty of decoration exist in most public museums and in many private collections, some of them being of great antiquity, especially those of ancient Egypt executed on papyri. Greek and Latin specimens are also

on papyti. Greck and Latin specimens are also nuncrous, and the British Museum contains fine examples of all these kinds, and also an extensive collection of mediaeval English MSS.

Illuminati, the name by which certain religionists of the 16th, 17th and 18th centuries were known. They claimed the possession of superlative knowledge in everything pertaining to religious doctrines, rites and cereinonies, but were not at any time a very numerous body. An Order of the Illuminati was formed at Ingolstadt which was a secret society, and professed to free religion and politics from super-

stition and despotism. It had some similarity to

Illusion may take the form of a mental image of

Illusion may take the form of a mental issage of something non-existent, or be produced by a jurgler's handling of objects so as to deceive the eye.

"Illustrated London News," the first of the weekly pictorial papers to be published in England. It was originated by Mr. Herbert Ingram, a Boston printer and newsagent, in 1842, and was a pronounced success from its foundation. The idea occurred to Mr. Ingram after he had noticed what an immense "run" there had been on a few crude pictures which one of the ordunary weekly napers, had even of

"run" there had been on a tew crude pictures wince one of the ordinary weekly papers had given of incidents connected with the Greenacre murder. Ilyate, a mineral sub-tunce found in the island of Elba and other places on the Mediterranean in black prismatic crystals, being a silicate of iron and calcium, sometimes called "hevrite."

Ilyanthides, a family classed in zoology as Zoan-tharia malacodermata, having polypes single and free, with a rounded or tapering base, and destitute of corallum.

Ilybius, a water beetle of which there are many species in Europe and America. The peculiarity of this genus is a convex form of body and a lablal palp whose penultunate joint equals the last joint in length.

Images, in the form of carved, sculptured, or painted objects, have been regarded as aids to worship, not only by primitive races, but in various Christian churches from early times, but since the Reformation have been prohibited in the Church of England.

Imagination is the creative power and faculty enabling the mind to picture to itself scenes, events and persons of which a person may hear or read, and in its more intense form constitutes the genus by which the poet, the novelist, the historian, the painter, and the musician attain their idealisations

Imaum, a Mahomued in religious title borne only by

Jinaum, a Mahomued in religious title borne only by princes or leaders of the faith; the Sultan of Turkey, in his ecclesiastical cupacity, hear, this title, and by in his ecclesiastical cupacity, hear, this title, and by immaculate Conception, the dogma that the Vigin Mary was absolutely pine and siniless from the womb, after being a ferre subject of controversy for many centuries, was on December 8th, 1854, expressly proclaimed by Pope Pius IX. to be an established doctrine of the Roman Catholic Church. That the December is the fristival day of the Immaculate Conception in the Roman Church, and the 9th December in the Greek Church. December in the Greek Church

Immolation, the act of sacrificing a lying object or objects for the prophiation of the Almighty, or, in classic days, the god.

Immortality, the theory of the eternal existence of the human soul

Immortalies are wreaths, crosses, or other designs made from what are called evertasting flowers, which are obtained from certain plants of the Composite order, and retain their colours and compactness for a

order, and retain their colours and compactness for a long time. Immorteles are largely used as mementoes for decorating graves, especially in France Impact, the impingement of two bodies one against the other, a subject generally considered in relation to the resulting after-inotion, which comes under the cognizance of Kinetics. Direct impact is the opposition of objects moving in the sine direction, oblique impact is the collision of bedies moving in opposite directions.

Impeachment, a special arraignment, usually before Parliament or other high tribunal, of a person charged with some offence against the State. The custom in England is for the impeachment to be custom in England is for the impogramment to be made in the House of Commons, and the trial to be before the House of Lords. Racon, Warren Hastings, and Lord Melville are conspicuous instances of men impeached in this country.

Timpenment, the scientific name of a fimily of swimming birds, of which the penguin is the leading representative. They are all short-winged and unable to fly. The clivers and the auks belong to the tribe. Timperful Rademation was inaugurated as a public

Amperial Faderation was inaugurated as a public movement in 1884 by the formation of an Imperial Federation League under the presidency of the late

Right Hon, W. E. Forster, and after preparing a Right Hon. W. E. Forster, and after preparing a practical scheme for promoting its objects, dissolved itself at the end of 1893, leaving to other organisations the carrying forward of the idea. Among these are the United Empire Trade Peague, the British Empire League, and the Federal Union Committee, all having offices in London, with branches in the Colonics and the provinces.

Imperial Institute, founded in 1887 as a memorial mperial Institute, founded in 1887 as a memorial of Queen Victoria's Jubilee, and formally opened by her Majesty in 1893. Its object is to bring together into one permanent exhibition the products of the various British Colonies and dependencies, and generally to collect material, statistics, and general information relating to the condution of the various places. Since 1902 it has been under the control of the Board of Trade. The University of London occupies part of the building.

occupies part of the building.

Impluvium, a basin or tank in the hall or atrium of an ancient Roman house, serving the purpose of receiving the rain that dropped through the open

space in the roof.

Impressionist, an artist or author who attempts in his work to convey by broad effects of colour or iteatment the impressions which a subject has stamped on his own imagination, apart from detail or form. (See Post Impressionism.)
Impressment, the forced selure of persons for service on loard British war-ships, sanctioned by

laws still unrepealed, but not resorted to in this

country since the Napoleonic wars.

Imprimatur, originally an official dicence to print, and an unportant formula in the early days of printing. The term is now used in the wider significance of authority, stamp, or endorsement.

Impromptu, a speech, vriting, or inusical composition produced on the spur of the moment, without study or preparation. The word covers a wide field, study or preparation. The word covers a wide field, however, and especially in missical works includes much that is intracate and elaborate.

Impropriation, a legal term signifying the sur render of a benefice and its revenues into the hands of a layman or lay corporation, carrying with it the obligation to provide for the continuance of the eccles istical duties

Incandescent, glowing white with intense heat.

Incandescent Light is produced in electric lighting lamps by a thin metal filament, which, acted upon by the electric current, attains an intense white illuminating force; in gay-lighting the incandescent illumina-tion is obtained by a cone-like "mantle," made of inconsumable earthy substances, which is placed

over the part where the flame plays.

Incarnation, in theology, designates the doctrine that the Divine Spirit, recarnated in human form in the person of Jesus Christ, has had actual existence on earth, subject to human limitations, yet without

losing the Divine essence.

Incas, the title borne by the ancient rulers and princes of Peru

Incense, an aromatic resinous substance which, under combustion, exhales a pungent odour, and is used, mixed with certain fragrant perfumes, in the celebration of Mass in Roman Catholic Churches. Olibanum or frankingense is ordinarily the leading ingredient. It is not permitted in the orthodox service of the English Church, and when used by the more pronounced Ritualists is in defiance ecclesustical law.

Incognito, the dropping of name, identity, or distinctive mark, so as to pass unknown. A term generally used in cases of persons of rank who conventionally take an assumed name or interior title

in order to escape ceremony and formality.

Increment, Unearned, the term applied to the increase which arises in the value of land or buildings

increase which arises in the value of land or bullings from causes object than the efforts or exertions of the owners, and in the Lloyd George Budget of 1909 first brought within the range of taxation.

Incubation, ordinarily the artificial hatching of type by means of an apparatus called an incubator (see Incubator article in Pears' Dictionary of Poultry and Caye Brids); a term also applied to conditions of heating and feeding by which children

prematurely born or exceptionally feeble are nurtured and brought forward.

Index Expurgatorius is an index, prepared under theseuthority of the Roman Catholic Church, of such books as may not be read by the faithful at all, and such as can only be read in part: that is, with what are considered objectionable passages expunged. The first Expurgatorial List was issued by Pope Paul IV. in 1857, and all later lists have been under direct papal authority.

India Office. Library (see Library of the India Office).

India Rubber, or Caoutchoue, is made from

India Rubber, or Caoutchoue, is made from the juice extracted from certain tropical plants, and is the most elastic substance known. It is treated is the most easier substance known. It is treated and undergoes coagulation in moulds, after which it is dried and sent to market. Its commercial utility is considerable, being presented in many different forms, as aboutte or vulcante, and for waterproofings. The use of rubber for motor tyres has greatly increased the demand for this article. The consumption has been increased more than the fold within the tion has been increased more than tenfold within the tion has been increased more train tention wants the last few years. The uses to which rubber is put is being extended year by year; meanwhile plantations of rubber-yielding trees are being started in all regions favourable to their growth. There are large rubber estates in Ceylon, Java, and the Straits Settlements, but the native forests of South America still yield the largest quantities of the raw material. Indian Corn, the American name for maize (Zeamart)

Indian Cross, the genus Tropecolum, an ornamental climbing or creeping garden and greenhouse plant. Indian File, marching forward in single formation,

as Indians progress through the woods.

Indian Ink, a pigment made from lampblack and
gum or glue, originally prepared in China and Japan.
It is dried and is marketed in small sticks. It is

it is dried and is marketed in small sticks. It is used mainly by artists for shading and lettering.

Indian Mutlny. This turning-point in the history of modern India occurred in 1857-8. The oxtensible cause was the serving out to the native troops of cartridges greased with animal fat, contact with which was forbidden both by the Hindu and by the Mahommedan faith; but underlying this a rebellious feeling had long been secretly developing, fanned by Nan't Salh) and others, and when the Sepoys at Meerut, in May, 1857, not only refused to obey the English officers but overpowered and put them to death, the Mutiny spread like wildfire, the rebels took Delhi and Lucknow, and during a period of many months the most terrible massacres and of many months the most terrible massacres and atrocities were committed, men, women and children being slain in thousands. The English General heroes of the Mutny were Sir Coin Campbell, Sir John Lawrence, and Sir Henry Havelock, but heroism was shown by British soldiers, and civilians everywhere during that terrible time. Order was reestablished in the autumn of 1638, when the governing power was transferred from the East India Company to the Crown.

to the Crown.

Indictment, a formal document of accusation setting forth the crumnal charge or charges upon which a person has to be truch before a proper tribunal. It represents the "inding" of the grand jury, and is framed on the "true bill" returned by that body

Indigo, the substance obtained from certain plants of the Indigofera order, inhabitants of the tropical repress of Asia. Africa, and America, India being the

or the "Managora" order, instantians of the tropic regions of Asia, Africa, and America, India being the chief producing country. The colouring matter the result of the decomposition and fermentation of a gincoside contained in the plant. This is afterwards dried and necomes the caked index of commerce. There are numerous varieties of indigo formed by there are numerous varieties of imago formed by the admixture of other colouring cabstances. The discovery of Indigotan, olsamed from coal tar, has mate years largely superseded the use of vegetable indigo in dyeing and is more uniform in strength. Individualism, a principle of government dis-metrically opposed to Socialism, and tavouring free-dom of action on the part of individuals without the interference of the State.

Indium, a scarce lead-coloured metal found in zinc

blende in Saxony, and remarkable for presenting a

blende in Saxony, and remarkable for presenting a blue line in the spectrum.

Indo-European, a term used to designate the Aryan family of languages, which embraces Indian, Iranian, Ceitic, Greek, Italic, Slavonic, and Teutonic. Indra, an ancient Hindu God, personifying the sky the supreme object of worship in Vedic times.

Induction, in Logic, is an argumentative miference in regard to an entire class of facts, based on actual demonstration as to individual facts comprised in that class. In Natural Philosophy it is a term applied to the action or effect produced by an electrical or magnetic body upon a non-electrical substance near to it but not in actual contact.

Induction Coil. a machine for producing electric

substance near to it but not in actual contact.

Induction Coll, a machine for producing electric currents by induction. It consists of a soft iron Minder, or a mass of straight iron wires, around which is wound a primary coil of silk-covered copper-wire, whose ends are attached to a galvanic cell, while around the primary coll, still another, the executions coil of five corpose. cell, while around the primary coil, still another, the secondary coil, of finer copper wire and of considerably greater length: is coiled. One coil is carefully insulated from the other, and the different parts of the secondary coil are also insulated from each other. The current is generated in the secondary coil by induction every time the current starts or stops in the primary coil. A rapid series of alternating currents is thus set up of a very high tension. Sparks many inches long and of great brilliance are obtained by large induction coils.

Mulfance a remission of becamers or punishment.

Indulgence, a remission of penances or punishment for sins, formerly granted by the Pope in return for contributions in aid of religious purposes. The discriminate sale of Indukences by Tetzel and other Papal agents in the 16th century was one of the grievances which led to the Reformation.

Induigance, Declaration of, was the proclama-tion by which James II. suspended the penal laws against Roman Catholics and Dissenters. It was first issued in 1687 and again in 1688, but the clergy as a body refused to obey and the prosecution of the Seven Bishops followed, as did James's abdication.

Induline, a general name for a class of coal tar dyes used for various fabrics, all giving forth dark

blue shade

Industrialism, the pursuit and practice of the indistrial arts and a devotion to them in their broader aspects, as a leading element of progress. Inertia, u atter, mass, or body which has not within itself the power of notion, or which noves only with uniform action in a rectlinear line. Force only can

uniform action in a rectilinear line. Force only can transform merita into energy Inescutcheon, a small 'sauteneon borne heraldically within the shield of ordinary dimensions. Intallibility, the Roman Catholic doctrine that accords the Pope divine immunity from error, in the execution of all that pertains to his pointifical functions. It was first proclaimed as degina of the Church by the Vatican Council in 1870. Intanta, the title of any son but the eldest of the king or queen of Spain or Portugal. Intanta is similarly the title of any daughter except one that might be herress to the throne.

Intantry, the portion of an army which consists of foot soldiers equipped with "small arms."

Inflection, the change or deviation experienced by light as it moves over the edges of an opaque body,

light as it moves over the edges of an opaque cour, causing the scattering of coloured rays. Inflorescence, the arrangement of flowers upon a branch or stem; it may be terminal or axiliary. Infulse, a sacred filler, of woollen material, worn on the head by priests anciently, and by magistrates and rulers on solemin occasions, also by persons for protection to sabetuary. The infula fleeing for protection to sanctuary. The later became a pendant to the natre of bishops.

Inter Secame a pendant to the nutre of bishops.

Infusoria, a class of infunctanual animalculæ of aquatic habits, presessing a mouth and some sort of digestive organism, but for the most part only observable under tith microscope. They are the most highly developed form of Protozoa.

Infoldaby Legands, a series of ingenious fan tastical stories, mostly in racy verse, written by the Rev. R. H. Barham, and first published in Bentley's Mixellany about the middle of the 19th century.

Ink, a liquid pigment ordinarily made from an infusion of nut-galls, copperas, and gum arabic. Saumac is substituted for nut-galls for inferior inks. An acid is substituted for nut-galls for inferior inks. An acid is sometimes added to prevent oxidation, and for the blue-black inks a small quantity of solution of indigo serves for colouring. Copying ink contains glycerine or sugar, which keeps the ink moist. Lampblack is the leading ingredient in printer's ink. Marking ink is composed of a solution of nitrate of silver, gun,

Innocent's Day, a festival day in Roman, Greek, and Anghean churches in commemoration of the killing of the children of Bethlehem by Herod,

December 28th.

Inns of Court, certain legal corporations in London enjoying the privilege of calling candidates to the parafter they have studied for a certain number of terms and passed certain examinations. The Inus are four in number—the Inner Temple, the Middle

Temple, Lincoln's Inn, and Gray's Inn
Inquisition, a Roman Catholic ecclesiastical court hich became a formidable weapon of the Church in the 13th century under Pope Innocent III. In dealing with charges of herey. It was effectively set up in the various Catholic countries of the Continent, obtaining its fullest and most sweeping organisation obtaining its fullest and most sweeping organisation in Spain in the days of Ferdinand and Isabella, when Torquemada was made Grand Inquisitor, and used its powers with terrible severity. (See Auto-da-16.) In the 18th century its influence began to wane, and although the Congregation of the Holy Office still exists at Rome, its jurisdiction is limited to the suppression of heretical hierature. Not less than 30,000 persons are supposed to have suffered death in Spain alone in nursance of the Engistics of the Inquisition. alone in pursuance of the sentences of the Inquisition.
The institution ceased to exist in France in 1772, in

Portugal in 1820, and in Spain in 1834 Insectivora are animals which live almost exclusively on insects and worms, and comprise hedgehogs,

sively on insects and worms, and comprise hedgehogs, moles, shraws, etc.

Insectivorous Plants are of various orders, and are found in all parts of the world, the Common Sundew and the Common Enterturor being the best known British species. These plants are provided with a leaf (or flower) arrangement by which insects are attracted. A gummy secretion spreads over the surface, and when an insect gets entangled the glandular hairs close over the victim, and excape stifficult; whereupon the plants absorb the life essence of the captured insects by a process of digestion.

Insects, a term applied to an extensive class of invertebrate creatures abounding in all parts of the world. Their bothes are usually segmented, they possess wings, and have commonly four or more legs, in addition to a pair of antenire and a pair of mannibles. Files of all kinds, flexs, bugs, butterflies, moths, bees, wasps, grasshoppers, crickets, beetles, lice, and thousands of other species make up this wonderful order.

wonderful order.

Insessores, a bird classification which included all perching and climbing birds, but which are now included in the Passeres and Picarie orders, com-

prising some two-thirds of all existing bird species.

Energy a marks or badges of office or honour, such as stars, ribbions, crosses, medalions or other de-signating objects, worn by members of special Orders or holders of prominent offices.

final vency, the condition which marks a man's or a firm's inability to meet their full monetary obligations.

When a person is in this strait, he can either call his creditors together and endeavour to come to some private arrangement with them, according to the nature of his assets, or he can place himself in the hands of the Bankruptcy Court, which will administer the estate and distribute the assets for the benefit of the creditors

the estate and distribute the assets for the benefit of the creditors.

Inspector General, a chief army officer who in the prosent British Army system fills the place formerly occupied by the Commander-in-Chief, a title abolished in 1904.

Inspiration, in theology, means the direct influence of the Supreme Being in the writing of the Scriptures, and, like all other matters of religion, has been subjected to many definitions. Thus, we find endless discussion regarding verbal surpiration; as to pirary, all mall, inspiration; the moral inspiration; the action on the natural faculties; and mechanical, which only regards human agency as an instrument.

Institute, a mental quality possessed by all organised beings in a more or less degree, but more especially revealed in the lower number, and consisting of an intuitive prompting which induces the adoption of certain actions which conduce both to individual and racial preservation.

racial preservation.

Institute of France was formed in 1795, and after various modifications was in 1832 organised on its present basis. Its five divisions are—French Language and Literature, Belles Lettres, Science, Pine Arts, Ethics and Politics. It is restricted to 40

Insulation, the condition in which an electrified Insulation, the condition in which an electrified body is prevented from communicating electricity to contiguous bodies, by the interposition of a non-conducting material. Glass, shellac, ebonite, and gutta percha are all inneconductors, and wires obtain insulation by wrappings of cotton or silk, Insurance Acts. The provisions of this Act are set forth in the Office Compension section, which see, Insurance Constituted without the content of the provision are into account to the other transfer of the constituted without the const

forth in the Office Compension section, which see, Insurrection, a rising against constituted authority by a body of persons ainning at the removal of a grievance or the upsetting of Civil power. Less serious than a reliellion, it is more widespread than a mutiny and often develops into revolt or revolution. Intaglio, engraving or carving on a sunken ground, a method frequently adopted in the ornamentation of change and those.

stones and rings

Interdict, a Roman Catholic ecclesiastical prohibi-

Interdict, a Roman Catholic ecclesiastical prohibition, directed either against a country, community or church, or against persons. It is a weapon that is now rarely used, but in fornior times was often exercised with great power and severity.

Interest, in its commercial sense, is payment made for the loan or use of money, and is calculated according to a specified rate. Interest is either simple or compound. When simple interest is paid the principal sum remains the same; in the case of compound interest, each year's interest is added to the principal, and succeeding interest calculations are on the increased amounts. are on the increased amounts.

Interfude, any short stage piece, or brief musical composition, for performance between more important pieces. In the strict musical sense an interfude is an **strumental* composition played between

Interval in Music indicates the distance between two sounds, and may be me'odk, as when sounded successively, or harmonic, when sounded together.

Intransigeants, an ultra-republican party whose Chief members were very active and aggressive in France, Italy, and Spain, thirty or forty years ago, Henri Rochefort was a leading representative. Introlt, the processional public or hynni formerly sing as the clergy entered the church to commence

divine service.

Invention of the Cross, a Roman Catholic festival,

held on May and to celebrate the finding of the Cross at Jerusalem by Heracilus in 615. Also included in the Church of England calendar. (See Holy Reed.) Inventions in Demand. Among the simple inventions that are awaiting evolution, and any one of ventions that are awaiting evolution, and any one of which would bring a fortune to its inventor, the following may be considered worth noting:—A bottle evhich cannot be re-filled; a nut for bolts which will not shake loose; a substitute for indiarubler; a non-leaky tap; a smoke-consuming appliance; a cigar lighter, usable in wind; a simple rangefinder; a non-explosive lamp for low-flash oil; a good pencilsharpener; artificial sponge; an efficient stopper or easy means of drawing corks; a means of driving away flies.

Invertebrata, the zoological term used to designate all such animals as are without backbone or other internal bony framework.

internal bony framework,

Invastiture, the ceremony of conferring homour,
office, or possession—the investment of the recipient
with badge, token, or public recognition.

Invultiation, a form of magic or witcheraft that
prevailed in olden times, consisting of pricking a wax
or clay image of a person whose death was desired,
invoking simultaneously the and of our spirits, the
belief being that the spell would have a fatal effect.

Iodine, a substance formerly exclusively obtained
from the extracted ash of seaweed. After the salts
ter a been removed by crystallisation, there is left in

have been removed by crystallisation, there is left in solution todale and brounde of sodium, potassium, an I magnesium, and these heated with chemical agents yield indine. Nearly all todine now in use is derived from Chili salteperte (sodium intrate). Many combinations are effected with indine some of which are of considerable commercial value and of use m medicine.

in medicine.

Ionic Order of architecture is one of the five classic orders, its leading characteristics being the volute of its capital, which has on each side distinctive curved or scrolled ends.

I O U, an informal written and signed acknowledgment of indebtedness requiring in the man and though

ment of interest requiring no stamp, and, though not a promissory note, can be sued upon. The letters stand for "I owe you."

Ipecacuanha, a flowering plant of the Cinchonacce order, a native of the Brazilian forests. Its root is of great utility in medicine.

Irade, a decree promulgated by the Sultan of Turkey. Irestone, a general name for any hard rock.

redescence, a gittern hance of any new root.

Fridescence, a gitterning, rapidly changing glow of colours, showing different bues in different lights, and having the constantly shifting sheen and lustre of shot silk. Glass, metals, and fabrics are rendered iridescent by chemical treatment

Iridium, one of the heavest known metals, found in alliance with platinum. It is silver-white in colonr, is of considerable commercial value as an alloy, and is in general use for the making of standard weights

on account of its durability.

Iris, the typical getus of the botanical order Iridaceæ, Iris, the typical genus of the botanical order Iridaces, an order of herbs or under-shrubs of the Indogen family, with tuberous or fibrous roots and flag-like leaves, many of the family having beautiful flowers.

Irish Elk, an extinct species of deer, of large size and enormous authers, fossal remains of which have been found in the Irish logs, also in the Isle of Man.

Irish Moss, a kind of seaweed found on certain parts of the Irish coast, and collected, dried, and

parts of the In-h coast, and collected, dried, and bleached for use as cattle food or for making a nutritious jelly.

Irish Parliaments of a non-elective character existed in Tudor times and earlier, but they had no independent power until 178, when Grattan suc-ceeded in securing some measure of freedom from English parhamentary control. But no Roman Catholics were allowed to sit, the King refusing to assent to an Act for admitting them, and, finally, after the rebellion of 17,8, and the winning over of the Irish members by money and otherwise, the Act of Umon of 1801 abolished the Irish Parliament. It is to secure to repeal of this Act and obtain enlarged powers that the Home Rule agitation is directed.

Iron, the most abundants is well as the most important

FOR, the most abundants well as the most important of the world's metals, but occurring in a free state only in meteorites and some leastic lava found in Greenland. Iron is extracted by smelting from different ores, hæmatite, magnetic iron, and spathic fron, coal or coke being now unversally used for smelting purposes. The kinds of iron produced are: cast iron, wrought iron, and steel. The total amount of pig into produced throughout the world in 1911 amounted to about \$5,000,000 total, contributed chiefly by the United States, Germany, and Great Bittain, about 80 per cent, of the total being the product of these three countries. (See Steel, Furnace, Bessemer, etc.)

Iron Age, the period when primitive man made and used weapons and implements made from tron. It came between the Bronze and the Stone Ages.

came between the Bronze and the Stone Ages.

Ironclade, ships of war cased in iron or steel plates of sufficient thickness to resist projectiles. They were first introduced (1859) in the French Navy, and in 1850 the first British ironclad, the Warror, was launched. (See Navy.)

Iron Crown, the crown of the ancient kings of Lombardy and emperors of Germany, and noted for its two band said to have here forced from one of

Lombardy and emperors of Germany, and noted for its uron band, said to have been forged from one of the nails of Christ's cross. Napoleon I misisted on being crowned with this famous crown, which is now preserved in the cathedral of Monza.

Ironsides were Crownell's special troopers, so-called because of their solidity and firmness in battle.

Iron wood, the intensely hard and heavy timber of certain kinds of trees, natives of the warner regions of Asia and Africa, and mostly of the Sapotees order.

Irony, a sarcastic form of speech or writing by which blame appears in the gaise of praise, and generally where the real meaning is contradictory to the expression. expression.

Iroquois, the name of one of the tribes of North
American Indians formerly constituting the Five
Nations.

Irredentiats, a political party organised in Italy in 1876 with the object of bringing under one govern-ment the various islands and places racially and

geographically connected with Italy.

Irrigation, an artificial method of providing water for the growth of plants on lands where the natural supply of water is deficient. The science has made immense progress during the last fifty years, and has been the means of bringing into profitable cultivation vast tracts of territory in India and Western America which had previously been and wastes. The sys-tems are various and are utilised according to the special conditions of the land to be irrigated, but the success which has attended these experiments has been very gratilying. In fact, irrigated lands are often more productive than lands which receive a fair amount of mosture from the elements; the irrigation supply can be distributed and regulated

exactly according to requirements.

Isinglass, a gulatinous substance manufactured from the sounds or are bladders of certain fish, the best kinds coming from Russia and Brazil. Some of the coarser sorts of usingless are made from hides.

Islam, the Malionimedan religion, the word signifying

devotion to God.

Isoamylene, a colourless, mobile oil, of peculiar odour, obtained by distilling isoamylic alcohol with zine chloride. Isobaric Lines are the lines on maps which link

together places of equal barometric pressure. Isomerism, a chemical term indicating a similarity of elements with differing physical or chemical qualities, and arises from the difference of the molecular atonis.

Isothermal Lines are lines appearing on maps showing the points on the earth's surface possessing an equal mean temperature.

an equal mean temperature.

Isthmian Games were held in alternate years by
the ancient Greeks on the Isthmus of Connth, in
honour of Neptune, and were of the same class as the
Olympian Games. Wreaths were the only prizes.

Istle, a kind of fibre yielded by the Bromelia
sylvestria, a Mexican tree that grows innenese
leaves, from which the fibrous material is obtained.

For carety conducts aschure helding new accounts.

For carpets, cordage, sacking, belting, nets, etc. this fibre is very extensively used.

Itaka-wood, often called tiger-wood because of its marking, is a hard and beautiful wood furnished by the Macharum Schomburght of British Guana. For ornamental cabinet work it is highly prized.

Ich. Mite, a minute mosct which burrows beneath

Itch-Mite, a minute insect which burrows beneath the skin and produces the itch. It is covered with short hairs, and two pairs of its four pairs of legs are provided with suckers at the ends. It belongs to the spider family, and is named Sarcoptes scabies. Iulus, the name of a group of animals of the centipede family with cylindrical bodies and two pairs of legs to each segment, the latter being 40 to 50 in number.

In South America specumens 5 or 6 Inches long are frequent, but those found in England nare very small. Irony, the dentine substance of which the fusics of the elephant, hippoptamus, walrus, etc., are composed. The tusks of the Airican elephant sometimes weigh as much as 100 lb., and reach a length of 8 or 9 feet

8 or 9 feet.

Ivory Black, a species of bone-black, made by the calcination of ivory scraps and turnings, used as a pigment in the manufacture of printers ink, paint, etc.

Ivory-Gull, a small, beautifully-shaped, entirely white gull confined exclusively to the Arctic regions.

Ivy, the well-known climbing shrub, chiefly evergreen: furnishing a sudorific, the berries having also entirely properties.

emetic properties.

Ixia, a genus of Cape Iridacex, with beautiful flowers produced in considerable variety of colouration under culture

Izar, a fixed star in the constellation Bootes.

Jaal Goat, the Abyssinian ibex, found also in Upper Egypt and in parts of Persia. Jabiru, a wading bird of the stork family, white of

bund round the bottom part of the tropical regions of South America, and almost equals the adjutant, which it resembles, in size.

Jaborandi, a Brazilian plant, the leaves and bark of which yield a powerful sudorific drug, and an alkaloid called jaborine; the South American Indians make

called Jahorine; the South American Indians make great use of a decoction of the leaves in fever cases.

Jahuti, a Brazilian plant (Psishum albudum), furnishing an excellent dessert fruit.

Jacamar, a South American bird with long bill and brillant plumage, of arboreal habits and similar in its general characteristics to the kingfisher.

Jacana, a tropical bird (the water-hen of Brazil and the warmer parts of America) of wide range, beautiful of plumage, with slim body and narrow wings, and long pointed beak. It feeds on seeds and insects, inhabits marshy lands, and is of the crake and coot family. and coot family.

and coot family.

Jack, a small schooner-rigged vessel, used in the
Newfoundland fisheries; a pike; an oscillating lever;
an apparatus for roasting meat.

Jackal, a kind of wild dog or wolf, plentiful in warm
countries, of nocturnal liabits, a carrion feeder, and
of strong odour. Jackals hunt in packs, and make
the night hideous with their discordant yells.

Jackboot, a kind of leathern boot reaching above the knee; in common use during the 17th and 18th

centuries, but in modern days surviving only as foot and leg gear for fishermen, osters, etc.

Jackdaw, a small, blue-black plumaged kind of crow, common in all parts of Europe, and nesting frequently in steeples, old ruins, and hollows of frees. It makes an amusing pet, can be taught to utter words, and is fained for its mischievous propensities.

words, and is fained for its mischievous piopensities.
Jack Kachi, a by-nive for the common hangman,
and said to have been the real name of the public
executioner of the time of James II.

Jack-trae, a familiar tree of the Indian archipelago,
yielding a fruit called Jack-fruit, much larger toan
the Irrad-fruit, but coorser.

Jacobine, a French revolutionary club or party,
formed in 1780, and accustomed to meet at a
Jacobin convent, hence the name. It became a controlling force in the Revolution, especially in the
movement which led to the Terror, Roluspierre
being its cluef spokesman. being its clief spokesman.

Jacobites, adherents of the Stuart caure after the abdication of James II. First James hinself, then his son (the Old Pretender), and later his grandson (the Young Pretender) tried to fan the faune of rebellion, in Scotland and Ireland, but after the

rebellion, in Scotland and Ireland, but after the defeat at Culloden in 1745 the cause was lost Jaconet, a kind of musin at one time much in vogue as dress material, light, pliant and soft textured.

Jacquerie, a band of French peacants who in 1348 rose against the tyranny of the French nobles. Much desperate fighting occurred before the insurrection was put down.

Jade, a hard, transparent mineral found in China, America, and New Zealand, and used for making vases, bracelets, and other ornamental articles. There are many varieties, and there is evidence that the stone was in common use in prehistoric times for weapons and utensils.

Jaggernaut, or Juggernaut, the name of the great Indian idol at l'uri, which once a year is brought great Indian idol at run, which index years a song, and forth from its temple, placed on an enormous car, and conveyed at the head of a mighty procession through the streets. Multitudes of pligrims assemble on these occasions, and it need to be the practice for many fanatics to throw themselves beneath the wheels of the car and allow themselves to be crushed to death.

to be crushed to death.

Jaquar, an American carnivorous animal of the
leopard family, but much larger and more powerful.

It is the most formidable beast of prey on the
American continent, and haunts the shores of the
large rivers and lakes of Central and South America.

Jail, or Gnol, a place of confinement for persons
charged with or convicted of criminal offences.

Jailap, a drug made from the roots of certain
herbaccous plants of the Mexican Andes, growing at
an elevation of from 6,000 to 8,000 feet. The drug is

an elevation of from 6,000 to 8,000 teet. Ine drug is one of the switcet of known purgatives

Jalpate, a cupriferous Mexican sulphite of silver, malicable, blackish-grey, with isometric cleavage.

Jam, the popular name for boiled, sweetened and preserved fruit, in which during the last half-century there has spring up an important indistry in London and different parts of the country.

Jamb, the upright sides of a door, window, fire-place, or other aperture, supporting the lintel, entablature or mantel and shelf.

Jangada, a rude sort of boat or catamaran, carrying a large sail, used off the coasts of South America.

Janis, an indian religious sect, dating from 700 B C., who reject the Vedas and are in many points in accord with rhe Buddhists. They are a fairly numerous boely, and are as renowned for their austre morality as for their wealth.

awtere morality as for their wealth.

Janissapies, a former band of Turkish foot soldiers
who acted as the Sultan's Lody guard, and were
noted for their turbulence and criefly. They existed
from the 14th century to 1826, when they were finally
disbanded after the people had risen against them
and massacred many thousands
Jansenists were followers of Jansen, Bishop of
Ypres, who deimed "the freedom of the will and the
possibility of resisting Divine grace." They did not
exist as an ozzaniestly hady affer and.

exist as an organised body after 1740.

Janthina, the "Ocean snail," is common to the Atlantic, and of peculiar formation. It has a violet shell, and possesses a sort of foot which it uses for propulsion.

propulsion.

Jantu, a water-raising trough contrivance, balanced on a bar It is of considerable antiquity, and used yet in Iudii and the Fast in irragation operations.

January, the first month of the year, named after Janus, the two-faced good of the Romans. It was the Wolf monath and Active Vide of the Saxons.

Japarage Art is one of the many characteristic developments of a wonderful people. It is original, distinctive, of marked decreative seuses and shows a freedom and delicacy of handling almost beyond write. Although incertain technical dutik; it falls praise. Although in certain technical details it falls short of the best European standards, it has in its general realisations had a decided influence upon the

decorative art of the world at large
Japanning, the process of coating metal, wood, and
other surface, with the variash called Japan, which produces a lacquered effect and is capable of

produces a lacquered effect and is capable or receiving a high polish.

Jarrah Wood, the wood of the mahogany gum tree of Western Australia [Escalypius rostrata), one of the hardest of all woods?

Jarraine, a graceful climber, with odoriferous blossom, originally a Persan plant, but now acclimatised irmany varieties in almost all parts of the world.

Japper, a precious stone of the quartz variety, opaque, and coloured red, brown, yellow and sometimes green. It was greatly esteemed by the ancients, the Bible having numerous allusions to it.

Jaunting Car, a two-wheeled vehicle peculiar to Ireland, containing a lengthwise seat on each side and a segt in front for the driver.

Javelin, a kind of spear which was thrown by hand

Javelin, a kind of spear which was thrown by hand and was one of the common weapons of war from the days of ancient Rome to the Middle Ages. A rude form of javelin is still used by many savage tribes.

Jay, a well-known bird of the crow family, of many species, and having a wide distribution, ranging from Europe, where there are six species, to South and North America, where the varieties are numerous. The Common Jay is the only British species. The Blue Jay of North America is a much handsomer bird, though smaller.

Jaserine. an antique military or protective facket.

Bine lay of North America is a much nanosomer bird, though smaller,

Jasarine, an antique military or protective jacket, strengthened by small overlapping pieces of steel or other metal internally, worn generally by the Italian nobility and those of neighbouring nations during the Middle Ages.

Jeannes, a name brought into familiar use by Thackeray in his "Yellowplush Papers," and since largely adopted in referring to footmen and finkeys.

Jean, a stout kind of twilled cotton cloth much worn in olden times, and resembling fustan. Among modern varieties of Jean there is a satin Jean of a shiny surface, also "Jeannette" used for linings.

Jebustiess, are often referred to in the Old Testament. They were a Canaanite nation, who held Mount Zion, and were in frequent conflict with the Israelites, until finally defeated by David.

Jehowah, one of the Hebrew names of the Deity, the ctymology of which is obscure. The English translators of the Old Testament rendered it "the Lord."

The Jews, however, regard the word as too sacred

The Jews, however, regard the word as too sacred for speech, and use the equivalents Adonas or Elohim instead of it.

Jelly-fish, the common name for a wide variety of fishes of gelatinous structure, such as acalephs, sea-bubblers, medusas, etc.

Jamidar, a native Indian officer of the British Army,

or head servant of a large house in the Orient.

Jenny, the name given by James Hargecaves to the spinning frame invented by him in 1765, which greatly improved and extended cotton spinning operations.

Jeofail, a law term, referring to the correction of

some error in legal process.

some error in legal process.

Jarboa, an interesting rodent known sometimes as the "leaping hare," and sometimes as the "jumping mouse." It has very long hind legs and a long tufted tail. It is a native of the desert regions of Africa. and lives in communities in underground passages.

and lives in communities in underground passages. Its jumping power is extraordinary groups are sextraordinary groups. Its jumping power is extraordinary and present in tourneys and marksmanship competitions. It is about five feet long, and great skill may be attained in flingung it at a moving object or faced target. Jeremiad, any utterance or writing in which sorrow or complaint is the chief characteristic, so natured as recalling the style of the "Lamentations of Jciemah," one of the Old Testament books.

Jerkin, a short upper garment or jacket, made of leather or cloth, in common wear by men in the 16th and 17th centuries.

and ryin centuries.

Jarsey, the name given to a close-fitting garment of ine woollen yarn worn by both men and women, and a cominon garment of athletes, cricketers, etc.

Jarusalem Chamber, a room in Westminster Abbey, deriving its name from the circumstance of its having originally been decorated with a view of Jerusalem. Henry 1V died in this chamber, and the Committee for the Revision of the Bible met there in 1870 and later.

Jesuits, members of the famous Roman Catholic estitis, members of the famous Roman Catholic order founded by Ignatius Loyola in 1734, have borne an influential part in the working out of the religious policy with which they have been identified. They were long regarded as "the power behind the Papal Chair," and in pute of their piety, devotion, and learning, the suspicion has rested upon them of having put their policical aims before their religious practices. They have been described as having no scruples, and as employing every possible art. scruples, and as employing every possible art, device, or deception to attain their objects. The mambers of the society are composed of two classes,

laymen and priests, and a long and vigorous course of stady is prescribed before they are admitted into the privileges of full membership. They are required to take the vows of voluntary poverty, perfect clustity, perfect obedience, and complete submission to the Pope. For their supposed political intriguing they have been several times expelled from France, Spain, Russia, Holland, and other countries, but the order still survives in most countries, it being estimated that it has still over a contries, it being estimated that it has still over 10,000 devoted members

Jet, a deep black fossil substance admitting of a high polish and much used for jewellery, ornaments, and trimming. The substance belongs to the Tertiary trimning. The substance belongs to the Tertiary and Secondary rocks, the most important deposit being found near Whitby, where jet manufacture has been an estat-lished industry for a long period. In recent years, however, an imported imitation jet has somewhat interfered with the English jet trade.

Jetasm. a term in navigation law, signifying cargo thrown into the sea and sunk. Such goods belong to the Crown in default of other claimants. (See

Flotsam.)

Jetton, a kind of metal counter formerly used in cardsubstan, a kind of metal counter formerly used in card-playing. Monarchy, nobles, and abbeys had their distinctive jettons, which were often as carefully de-vised and inscribed as if they had been pleck of coin. Examples survive m many museums, Jetty, a construction of wood, masoury, or ironwork, projecting into the sea, and serving as a wharf for shipping and merchandise, or as a mole for harbour protection.

protection.

Jeunesse dorée, gilded youth, a term applied to young men "about town" remarkable for their luxurious liabits. The name was originally given to a fashionable political party of the French Revolu-

Jewfish, a large fish of the Serranidæ family, plentiful round the coast of America.

Jewish Calendar is supposed to date from the Creation which is reckened to have been anterior to

Creation which is reckoned to have been anterior to the Christian era by 3 760 years and 3 months. The Jewish year 5570 began on September roth, 500. Jewish, descendants of the ancient Hebrews or Israelites, exist to the number of considerably more than twelve inhibitons in all parts of the world. There are about 150.000 in London alone, and in other parts of the United Kingdom upwards of 100,000 inver. In Europe there are nearly 0,000,000, more than half the number living within the boundaries of the Rissan Empire. despite recent persecutions more than half the number living within the consultaries of the Russian Empire, despite recent persecutions and migrations: Austria-Hungary contains over 2000,000; Germany has over haif a million, Turkey, 106,97; Rouviaula, 215,000; Holland, 103,000; France, 100,000; Italy 44,000; Switzerland, 10,000. In the Genus Vear Book is estimated that in North and Contains the Contains of South America there are some two million and a haif Sourh America are some two million and a hair jews; in Asia, 499,745; in Atrica, 354,500; and in Australia, 17,000. A movement is on foot for restoring poor jews to Palestine, where to-day some 80,000 are lying on the soil. The Zionist movement, which has for its object the fourding of Jewsh colonies in favourable countries, has also been warmly taken up. In this country the Jews have been practically freed from all disabilities, but in many lands they continue to be oppressed.

Jew's Ear, a fungus that grows in the shape of an ear and is common in England. At one time it was accounted of medicine value, and in China is esteemed both as a medicine and is an article of diet.

Jew's Harp, a small musical instrument, the sounds from which are produced by the vibrations sounds from which are produced by the vibrations of a nietal tongue which extends through its centre. The harp is pressed against the teeth of the performer, who twangs the inetallic tongue with his finger, simultaneously breathing the required vinations of tone upon it. Haufield by an expert player, it is capable of producing very pleasing music. Jewscone, a pale grey egg-shaped fossil stone that was once highly prized.

Jhoom, the name of a method of cultivation adopted in the jungle parts of India, but only followed for a year or two after the forest growth has been cleared by burning.

PEAMS CYULUPAEDIA.

Jib, the front triangular sail of a ship, resting on a stay, and in large vessels projecting from the end of the jib-boom. There is also a flying jib outside this. Jig, a rapid dance for one or more persons, much indulged in in Ireland and the English and Scotch provinces, a survival of old English days.

Jiggar, a kind of flea or mite common in the West Indies and soine of the warmer parts of the United States. It pierces the skin like a mosquito and causes great irritation.

Jihad, a holy war, proclaimed by the Mussulmans against Christians. Fanatics attempted to set one on foot in India in 1877, and simultaneously another was proclaimed at Constantinople against the Russians, but it came to naught.

Jingal, the name of a survel-musket largely used by the Chinese for shooting water flowl and other birds.

Jingal, an English political term which came into vogue in the "seventios" and "eighties," when Russia seemed to be threatening an advance on Constantinople. A music-ball song of the day, sing by Macdement, the retain of whit was "We don't we don't seventios" retain of whit was "We don't we don't seventios retain of whit was "We don't we don't seventios" are frein of whit was "We don't we don't seventios retain of whit was "We don't we don't seventios retain of whit was "We don't seventios" and provided the contract the contr Russia seemed to be threatening an advance on Constantinople. A music-hall song of the day, sing by Macdermott, the refrain of which was "We don't want to fight, but by jugo if we do," etc., emphasised the feeling of the party and gave the cue for their being called "Jingos."

Jinn are supposed to be spirits of evil, assuming Wirous shapes, human and animal, and exercising good or evil influence, according to their origin or mission. In the Arabian Nights and other Eastern literature lunns or genil are numerous.

interature Jinns or genii are numerous.

Jinrikicha, a hooded, two-wheeled vehicle drawn by one or two men, and used in Japan, India, and

other Eastern countries

other Eastern countries

Joachamites were adherents of the Italian religionist, Joachim, who was abbot of Floris at the
beginning of the 19th century, and maintained that
three reigns would complete the history of the carth;
the first was the reign of the Father, from the
Creation to the birth of Christ; the second that of
the Son, from the birth of Christ to 1260; and the third that of the Holy Spirit, from 1260 to the end

Joannites were followers of St. John Chrysostom, Archbishop of Constantinople, in the 4th and 5th

Archisshop of Constantinople, in the 4th and 5th centuries, and were noted for their austerity.

Sockey Club, the governing body that, although possessing no legal status, frames rules and laws by which horse-racing and turf matters generally are regulated. The club-house is at Noemarket.

Johannes, a Portuguese gold com of the 17th and 18th centuries, worth nearly £2 English.

Johannisberger, a famous white wine produced from grapes grown in the Rheingau district near Wiesbaden.

Wiesbaden.

Wiesbades, a green mineral, scientifically described as "a hydrous sulphate of the protaxid of uranium."

John Bull, the typical figure of an Englishman bullf, big, and burly. Arbuthnot's History of "John Bull, the typical figure of an Englishman bullf, big, and burly. Arbuthnot's History of "John Bull, the summary of the East India Company, a the days before the Mutiny. John Dory, a well-known sea-fish of which there are six species. It is of a golden yellow colour (jasma dors), has a high dorsal fin with long fiaments projecting from the spines, and is much valued as a table fish. It is sometimes found in British waters, but the Mediternaen is its chief habitat. John O'Groat's House, inhabited by a farmer of that name and his brothers in the 15th century, stood on Duncanby Head, the northermost point of Scotland. The site is marked and an ign was erected near it in 15th.

erected near it in 1876.

Joiner, a workman whose occupation is to construct articles in house-building by joining woodwork with framings, glue, screws, nails, etc.; a specific branch of the craft of carpentry.

of the craft of carpentry.

Joist, a horizontal timber employed in the support of
floors and ceilings in house-building; latterly iron
joists have also been called into requisition in the
construction of many important edifices.

Jonglaure were originally minstrels and jesters who
wandered from town to town singing songs and
giving entertainments. In Norman days they were
popular both in France and England and were

favoured by the kings. In latter times they de-generated into conjurers, and so gave rise to the term jugglers.

term jugglers.

Jordanibe, the name given to a native sulphide of arsenc and lead found in orthorhombic crystals in the dolonile of the Binnenthal, in Switzerland.

Joss, the popular name of a Chinese idol, the place where it is kept being called a joss-house

Jougs, an ancient Scottish instrument of punishment, in the form of an iron collar, which was fitted to the neck and held to the wall or to a tree by a chain; a variety of pillory of a barbarous character, employed in the repression of female recalcutrants at times.

Joule, the electrical unit adonted by Siemens and

Joule, the electrical unit adopted by Siemens and representing the work accomplished in one second, "in maintaining a current of one ampere against a resistance of one ohm." The name commemorates

that of Prof. J. P. Joule, the eminent scientist.

Jousts were military tiltings in which the contestants strove against each other on horseback with blunted lances, and were in the nature of tournaments, Jousts were the sport of nobles in feudal times.

Jove, a classical name for Jupiter, the chief of the Roman divinities.

Noman divinities, a sect founded in the 4th century by a Milanese monk named Jovinian, who contended for the equality of sins, rewards, and punshments, and denounced celibacy and other prevalent features of Church doctrine,

Jowter, a Cornish and West of England term for a fish-hawker who plies his trade on horseback.

Jube, in church architecture, the rood-loft over the entrance to the choir from the chancel.

Jubiles, fifteth-year celebrations, first introduced by the Roman Catholic Church, when special indulgences were granted and there was much rejoicing. In recent times the word Jubilee has been applied to any kind of fitteth-year celebration, the most promunent of those in England having been thetwo Jubilees of Queen Victoria—that of the fifteth year of her reign in 1887, and her Diamond Jubilee

Judge Advocate General, a Crown Minister, entrusted with the duty of advising on subjects_connected with military law, and attached to the Privy Council It is necessary he should be a member of

Council It is necessary he should be a member of the House of Commons.

Julian Calendar, named after Julius Casar, who was the first to adopt the calculation of time by the solar year, the average length being fixed at 3654 days. There was still an overplus of a few minutes every year, however, and this was rectified by the Gregorian Calendar, introduced in Italy in 1952 and adopted in England in 1972, from which date what is called the "New Style" begms.

Julianista, a sect of Copts who believed the body of Christ to be incorruptible, in contravention of the doctrine of the Severians

doctrine of the Severians

Julio, an old Italian coin, worth about 6d. English.
July, the seventh mouth of the year, named after
Julius Casar It was the Maca monath (meadmonth) of the Saxons.

July Revolution, the French revolution of 1830 whereby Charles X was deposed and Louis Philippe made Citizen King, the latter being himself deprived of Kingship by the revolution of 1848.

on Ampsinp by the revolution of 1248.

Jumaré, a fabulous monster which often cropped up in early English literature, supposed to be the offspring of a bull and a mare, or of a horse and a cow.

Jumpers, religious sects or bodies who make jumping or dancing a part of their ceremony of worship.
Certain Methodists of Wales, some Irvingites, the
Shakers of America, and a Russian sect have adopted the practice more or less. the practice more or less.

Juno, the name given to a genus of snowbirds, confined to the Agerican continent.

June, the sixth month of the year, containing 30 days and deriving its name from Juno. It was the Sear (Dry) monath of the Saxons.

Jungle, the Indian name for a forest or dense tract

of undergrowth or desert land.

Jungle-Fowth, a gallinaceous bird of the pheasant family, having four varieties. It abounds in the forest regions of India, Ceylon, and Java; and there

is an Australian bird of the megapod order to which the term Jungle Fowl is applied. They are all birds of brilliant plumage.

Juniper, the Nova Scotian name of the American larch; also all the trees of the Junipers genus: from the unripe fruit of some species of which is distilled the stimulant and durette oil of jumper.

Junius," the signature under which a remarkably able and viccorus series of political letter were not.

"Junius," the signature under which a remarkably able and vigorous series of political letters were published in 1769 in the Public Advertiser, and now generally attributed to Sir Philip Francis, though the evidence is by no means conclusive.

Junik, a flat-butmed Chinese sea-going boat, carrying large masts, and employed on the coasts and seas of China and Japan.

Junkers, a German political party name, referring to a class of young nobles of military spirit, who, prior to the Franco-Prussian War, supported Bismarck.

Junket, a sort of sweetmeat, tonssting sometimes (as in Devonshire) of curds and cream, sweetened and flavoured at will

flavoured at will

Junta, a Spanish word designating a legislative or other distinguished assembly entrusted with the passing of laws or the deciding of policy. A grand council of state.

council of state.

Jupitar, the largest body of the planetary system except the sun, from which orb it is distant 48,000,000 miles. Its mass is over 300 times as heavy as the earth, while in bulk it is 1, 900 times as large. It has the supreme deity of the Romans, identified with the Greek Zeus.

Romans, identified with the Greek Zeus,
Jurasaic Formation, a series of rocks (the
evidences of which are most marked in the Jura
Mountains) coming between the Creticeous and
Triassic groups and including the Oolite and the
Lias. It is a formation ruch in fauna, and extends
through a great part of Europe and to America.
Jury, a body of men chosen and sworn to hear and
cases world or upon evidence brought forward at a

pass verdict upon evidence brought forward at a trial, inquest or mquiry. Its origin is obscure, but it was in existence in the 33th century. There are three classes of juries; the Grand Jury of 23 free-holders summoned tor criminal courts; upon whom devolves the duty of deciding whether there is a prima face case against a person accused; Common Jury, consisting of 22 nembers, who have to pronounce their verdict upon the evidence; and the Special Jury, which is simply a jury of men of higher social standing or specific experience. There are also certain other juries called loggether for particular purposes, such as the Coroner's Jury, the Jury of Matrons. and so on. s verdict upon evidence brought forward at a Matrons, and so on.

nativous, and so on.

Jurymast, a word of doubtful origin, the application
of the term "jury" being difficult in this connection
to define, but indicating an improvised mast put up
in place of one lost or broken down.

Justice, is defined as "a written or prescribed law, to which one is bound to conform and make it

the rule of one's decisions Jute, the name given to the fibre of a plant largely grown in India and used for the manufacture of coarse cloths, cordage, etc. Dundee is the chief centre of this industry.

Jutes, a Low German race who in the 5th century invaded the South-eastern part of England, establish-ing themselves in Kent and making Canterbury their capital.

capital,
Juvenalia, games of young people instituted in
Rome's imperial days by Nero.
Juvail, a heavy description of rifle used by the

Afghans.

Kaaba, the inner shrine of the Great Mosque at Mecca, only thrown open to the faithful tunge times a year. It contains in its south-eastern corner the famous sacred "black stone," said to have failen from heaven with Adam.

Raffirs, a native race of South Africans, which includes the Zulus and other of the more powerful tribes. They were originally called Kaffirs (meaning "infidels") because of their refusal to adopt the Mahommedan religion.

Kageneikia, a genus of the Roseworts, confined naturally to Chili; a tall growing ornamental tree, white flowered, and propagated successfully under

white howered, and propagated successing mass fasts in this country.

Rago, a rude Japanese palanquin suspended from a pole borne on the shoulders of two carriers, the person carried resting m a sort of bamboo lammock.

Ragu, a grey crested bird, the only member of the Rhinochetine family, and an inhabitant of New Caledonia. In its general characteristics it has some resemblance to the heron, though it is, properly smelting, a crane. speaking, a crane.

Kaha, the Dyak name for the Proboscis monkey of

Borneo (Semnopithecus nasalis).

Kaliyard School," a term-meaning "cabbage garden" applied to a recent school of novelists who liave in the main taken homely Scottish rural life for the subjects of their stories.

Kain, a tribute or dety, formerly taken—in kind, as poultry, etc—by landlords in Scotland and elsewhere as part of the rents due to them from their

truants.

Kalnite, a nuncral found in the Stassfurth salt mines.

Magdeburg, Prussia, forming a source of potassium
compounds, and consisting of magnesium sulphate

compounds, and consisting or magnesium suppare and potassium chloride, form of the word Casar, emperor, borne at the present time by the sovereigns of Gormany and Austria. Charlemagne was the first prince to assume the title of Kaiser.

Kakapo, the New Zealand owl-parrot, a peculiar and interesting species, possessing wings but not able to use them for flight, of brown mottled plumage, nocturnal in its habits, and nesting in burrows. The

bird is rapidly becoming extinct.

Kalan, a local name for the sea-otter which is only found in the seas of Kainschatka and North-West America. It is larger than the beaver, and weighs from 70 to 80 lbs. Its proper zoological name is Enhydra lutres.

Rinkydra Istiret.

Kalanohoe, the genus of Crassulacea, the leaves of varieties of which are applied to medicinal uses in China, India, and South America.

Kale, strictly a kind of cabbage with curly leaves; but also applied to cabbages in general; also the name of a broth made from kale and other ingredients.

Kaleidoscope, an optical instrument, the invention of Sur David Brewster, and consisting of a cylindrical tube containing two mirrors inclined to each other at an angle, which produce a symmetrical reflection of any transparent coloured substances placed between. An endless variety of beautiful patterns is obtained An endless variety of beautiful patterns is obtained

An entities variety of remains passents a constitution by turning the toy round.

Kalends. (See Calends.)

Kalmucks, a branch of the Tartar or Mongol race who, in the 17th century, were expelled from Tibet and China and settled on the banks of the Volga, but many of whom returned to China in 1771. Since then they have wandered over many lands. They are skilled in metal working and their religion is a modified Buddhısın.

Kalpis, an ancient three-handled Grecian water vase of large size, decorated with classical figures in red on a dark ground.

Kalsomine, a mixture of Paris white, clear glue, and

on a dark ground.

Kalsomine, a mixture of Paris white, clear glue, and water, forming a serviceable whitewash.

Kami, a Japanese title applied to gods and celestials and their descendants, the emperor and members of the imperial family, and dainties and governors.

Kamila, a dye substance, giving a deep orange colour, obtained from the pods of the Malkows Philippricants, a tropical and sub-tropical tree.

Kamigulison, a floor covering composed of a mixture of indiarubber guttapertha, and corf. It was invented by Elijah Galloway in 1843, and though at first only made in grey shades, is now produced in a variety of bright coloured patterns.

Kanigaroo, a large marsupal or pouch-bearing mimal confined entirely to Australasia. Captain Cook was the first European to observe the animal in 1770. There are 56 species. A male kangaroo stands from 6 to 7 feet high; the female, which carries her young in her abdominal pouch, is considerably less. These animals can move at an

exceedingly rapid pace, progressing by tremendous leaps of from to to so feet.

Kantianism, the philosophical principles propounded by Immanuel Kant, the German metaphysician, which sought to restrict human knowledge to objects of possible experience, while admitting religious ideas as modifying influences.

Kaolin, a fine clay much used in the manufacture of Oriental. Sevres, and other high-class pottery. It

Oriental, Sevres, and other high-class pottery. It results from the decomposition of felspar, and is found in China, Japan, Devon, Cornwall, at Limoges, and in certain parts of the United States.

Raraites, a Jewish sect founded in the 8th century by Anauhen David, who adhered strictly to the Scriptural word and rejected the Rabbinical traditions and the Talmud. Reunants of the sect still exist in parts of Eastern Europe.

Karma, the Buddhist theory that a man's actions control his destiny after death, as the natural effect of a natural cause. The idea of successive existences

of a natural cities. Inclosed of successive existences is bound up with the doctrine, and forms an interesting subject of ethical speculation.

Katydid, a large green-winged insect of arboreal habits, common in the central and eastern portions of the United States, and noted for its shrill nove, which sounds like its name, and is produced by

gridulation.

Rauri Pine, the tree which yields Kauri gum so largely used in varmsh making, and exclusive to New Zealand. It exists in a fossil found in the sites of ancient Kauri woods.

Keble College, an Oxford college founded and endowed in 1870 in memory of the Rev. John Keble, author of The Christian Year

author of The Christian Year

Keep, the central tower or cluef stronghold of an
ancient castle, sometimes called the domon.

"Keepsake," The, a form of yift-hook issued annually in the early part of the last century; much
patronised by society for the sake of its contributions
by titled and other personages, and for its pictures,
but of small literary or artistic value

Kelp, the ash of burned seaweed, which yields carbonate of soda and sulphates and chloudes of soda,
as well as small proportions of sodue and lignuine in

as well as small proportions of rodine and bromine in conjunction with sodium and magnesium. Formerly used in the manufacture of soap and glass extensively, but super-seded largely for such purposes by barilla and other substance.

Kelpie, a water-prite of Scottish fairy-lore, whose appearance assumed various forms, and was supposed to forebode drowning to the person who saw it.

ro to rebond drowning to the person who Saw it.

Rentish Fire, a noisy long-tontinued kind of
cheering and clapping of bands which originated in
Kent at the Protestant meetings held in 1888-9 to
oppose the Roman Catholic Reinef Bill.

Rentish Rag, a kind of fossifierous clayey himestone of the Upper Neocomoun formation found in
Kent Underland and the second at the control of t

stone of the Upper Neocomum formation found in Kent. Used largely in building, for rubble and other walls, generally dressed roughly, if at all.

Rermes, a crimson dyestuff, less brilliant than cochineal, but note lasting. It is made from the bodies of the females of a small calcimilability insect (Coccus) found in immense numbers on the coasts of the Mediterranean. It was discovered before

Kermesite, a somewhat scarce mineral, being a combination of oxide and sulphide of antimony, and of a red colour. Often called red antimony,

Kern-baby, an image dressed up with corn, and formerly carried before the reapers in the processions attendant upon the rustic festivities of "Harvest home."

Karosana, an illuminating oil distilled from petroleum and shale, and practically the same as naraffin

Kersanite, a micaceous description of dolomite found at Visembach in the Vosges, consisting mainly of oligoclase.

of orgociase.

Kersey, a coarse kind of woollen cloth, originally made at Kersey, in Suffolk, and much used in the middle ages for ordinary men's clothing.

Kerseymere, a fine twilled all-wool cloth greatly in vogue in the last century as a dress fabric. The word is a corruption of Cashmere.

Kestral, a rather small kind of falcon of vari-coloured plumage, common in most parts of Europe, and also found in Africa and Asia. It feeds on nice, small birds, beetles, etc. The Common Kestrel is the most birds, beetles, etc. The familiar of British hawks.

Ketch, a sailing vessel formerly in considerable vogue, with two tall masts fore and aft, and clear amidships.

amidships.

Rew Gardens are amongst the most celebrated botanucal gardens in the world. They were established in 1760 by order of George III, and it was here that the valuable collections of Captain Cook and Sir Joseph Banks were accommodated. Since 1840 the gardens have been open to the public, and form one of the most attractive resorts near London. The Kew Observatory stands at the south end of the rarefus Observatory stands at the south end of the gardens.

Kex, the old English name for hemlock; so-called because of the hollow stems of the plant.

Key, a musical term indicating the central dominating note that gives the melodic order in which the tones of a tune or composition are arranged. It is the starting point, and different starting points demand different starting points demand different starting points demand different starting points demand conferent start or sharps; all other keys require the use of sharps or flats to bring the notes of their

scales into proper relation.

Reys. House of, is the of hanx representative assembly—the local House of Commons—and consists of 24 members, elected by popular vote since 260.

Prior to that date the members elected each 2666.

The Governor presides at their deliberations.

Keyser's Pill, a medicine of which the active

principle is acetate of mercury. **Reystone**, the stone which occupies the centre and highest point of an arch and is usually the last to be inserted.

Khair Tree, a small prickly tree of the Acacia family, bearing white flowe, on long axillary spikes, and common in Western India.

Khaki, a clay-coloured cloth largely adopted for uniforms in the British Army in the time of the war

with the Boers. First used by Indian regiments, Khan, a title formerly of importance in Eastern countries, and given to princes and governors of states, but now of too common use to be much more than a mere courtesy designation. Also the name of a caravanserai.

Rhedites, the title borne by the Viceroys of Egypt since 1857, after Isma.l Pasha's arrangements with the Sultan establishing hereditary succession in his family.

Khelat, a dress or robe conferred as a mark of distinction by the Handoos and Arabs.

cistinction by the Hindioos and Araba.

Khonds, a race of aboriginal least Indians occupying the jumples and lower regions of Orissa, and formerly noted for their frequent human sacrifices, which, however, have been prohibited since 1842.

Kibitésa, a hight Russain passenger volucle, mounted on two wheels in summer, but used sledge-wise on

long runners in snowy weather.

Kilderkin, once a common liquid measure in

Fingland, representing 18 gallons

Fingland, representing 18 gallons

Fingland, representing 18 gallons

Fingland, a short planted plant skart-like garment forming
part of the Highland costune, and reaching from
the waist to the knees, in olden times it was
simply the lower part of the belted pland

simply the lower part of the reflect plant **Ritting**, a dressmaking term denoting an arrange-ment of flat single pleats, placed side by side. **Rimmeridge Shale**, the name given to a peculiar geological formation most prominent at Kimmeridge in Dorsetshire, abounding in saurian fossils, and forming the base of the Portland colite group. Much of the shale is bituminous and is burned as fuel, though very impure.

fuel, though very impure.

Kindargarten, a system of children's' schools
("garden of khildren"), introduced by Friedrich
Froebel about the middle of the last century, and
intended to invulcate instruction by means of toys,
games, and sunging—things in which children take
delight naturally. The system is now well established
in nearly all countries, having been developed on
very successful lines in connection with the primary
schools of Envland. schools of England.

Kindrad Table was compiled in 1563, and is printed in the Rook of Common Prayer of the Established Church.

Kinematics, the science of pure motion, admitting conceptions of velocity and time, but not of force. All the properties of a curve may be deduced from the kinematics of a point.

Kinematics of a point.

kinematograph, an adaptation of the magic lantern, consisting of a rapid succession of photo-graphs of a moving scene, which when thrown on to a screen exhibit a picture with all the figures in actual motion. The photographs are attached to a ribbon and as this unrolls panorama-like the scene is depicted in detailed movement. A later develop-ment of the idea is the kinemacolour, which shows itural colours. Edison

was the first inventor of this kinematograph principle. King Crab, a remarkable crustacean inhabiting the sea coasts of America and the Moluccas, carrying a shield-shaped shell, and having a long pointed spine projecting from its posterior The body comprises three separate sections articulated together.
These crabs—in America known commonly as the horseshoe crab because of their shape—are from

18 inches to 2 feet in length.

its incres to a teet in length.

Kingfisher, a well-known and widely distributed family of brilliant plumaged birds, comprising ao genera and some 130 species. The larger species are fish caters, the smaller insect caters. The British kingfisher, Aicedo 1740a, haunts the rivers and streams, and is one of the most beautiful of native birds All kingfishers have long bills. In the Malay archipelago, New Guinea, the Moluccas, and Ausarchipelago, New Guinea, the Moluccas, and Australia the varieties are very numerous, but Europe and North America have each only two species. The quaint Langhting Yackars of Avstralia is the largest of the kingfisher family.

King-of-Arms, the names of the chief officials of the Herald's College. There are several in England—the principal heing those of the Garter, Norroy, and Clarencieux. (See Harald's College).

King Solomon's Mines.—Mr. R. N. Hall, F.R G.S., as the result of several years' excavations at Zimbabwe, in Rhodesia, came to the conclusion that here were the nunes whence Solomon obtained gold for

herewere the mines whence Solomon obtained gold for the Temple. The ancient monument of knodesia here were the nunes whence Solomon obtained gold for the Temple. The ancient monument of Riodesia contain the oldest and nost extensive gold mines known to the world, and from these, it is beheved, gold to the value of some £75,000,000 stelling was extracted during the time covering the Ophir period of the Scriptures. The older portions of Zimbabwe ruins, it is assumed, represent the monuments of a colony of the ancient empire of Sheba in South Arabia. The discoveries of Zimbabwe are in two divisions, one a temple in the valley, and the other a fortress on the hill. The masonry throughout is of granite without mortar or cement, though cement was known to the builders, for there are platforms and floors made of that material, date has been fixed at about 1,200 B.C.

King's Speech is the speech prepared by the Premier or other responsible Ministers in consultation with the King, and delivered by his Majesty in person, or by the Lord Chancellor in his absence, at the opening or closing of a Parhamentary session. The

first King's speech was delivered by Henry I in 1107.
Kinkajou, a carnivorous annual of the raccoon family, having a brown fur. It is common in the firests of Central and South America, lives mostly in the trees,

Central and South Americ, they mostly in the trees, feeding on birds, fruit, insects, etc.

Kino, a gum extracted from several tropical trees, and of considerable value as a drug leccuse of its astringent properties. It contains a large proportion of tainfic acid. It is used for dyeling purposes in India, yielding the colour called nankeen.

Kioak, a small open pavilion of light construction much used in Eastern countries as places of shade and rest. Similar structures are common in the streets

auuca used in mastern countries as places of shade and rest. Similar structures are common in the streets of Paris as news and advertisement stands, and in London as telephone offices. **Ririmon**, one of the two Japanese imperial crests, comprising the design of the flowers, leaves and stems of three pawlona plants. The *kikumon* is the other imperial crest.

Kirk, the Church of Scotland, Kirk-Session is a "courte" of the Presbyterian churches, consisting of the ministers and elders.

the ministers and elders.

Kirke's Lambs, a regiment commanded by Captab

Kirke, and of ill repute for their cruelities in hunting
down persons suspected of sympathy with Monmouth bit the relieful on of 168. The paschal lamb
was the emblem borne on their flag.

Kirschwasser, a sprituous beverage distilled
from the wild cherry, made chiefly in the Voyges and

Black Forest.

Kirtle, the name given in the 16th and 17th centuries to a woman's garment, but not always to the same kind of garment. At one time it was an undergarment or petticoat, at another a gown or a cloak,

and sometimes referred to men's garments. More generally a kirtle was a woman's outer shirt. Kirwanite, a hydrated silicate of alumina, protoxide of iron and lime, occurring in the basalt of County A ntrim

Kish, the impurities which float to the surface of molten lead in smelting

Kismet, a word signifying fate, de tiny, or doom frequently employed (or its equivalent) in most Oriental countries, and also in considerable use in European literature and speech.

Rit-Cat Club, a famous club formed in the easy part of the isth century, and having among its members many notable people, including Addison and Steele. If derived it, name from the pastry code who served it with pies—Christopher Cat—and has had its existence commemorated in a special size of portrait called a "Kit-Cat," because of the fact that the portraits of the men-bers of the club were all done thy Sir Godfrey Kueller) to this size—36 inches long, by 26 inches wide. Its summer meetings were held at the Upper Flask Inn, Hampstead.

Kitchen, an apartment mainly appropriated to

culinary uses

Kitchen Middens, the name designating certain geological evidences, consisting of large mounds, presumably the sites of prehistoric villages, distinctive features of which are stone-hearths. These mounds contain large quantities of fossil remains of edible molluses, hones of birds, animals, and fishes, fragments of implements, etc. They exist in the largest numbers on the east coast of Denmark, and here and there on the coasts of Scotland, Ireland, and England, and belong, it is supposed, to the early Neolitline Age.

Kita, a bird of prey once very common but now scarce in Britain. It is one of the Falcondidae family, of a dark brown colour, and feeds on rabbits, frogs, moles, and offal. In Lastern countries where

riogs, motes, and out. In Pastern countries were kites are numerous they are valuable scavengers. There are several known species in America.

Rittiwake, a beautiful white and pearl-blue gula inhabiting the rocky coasts of the North Atlantia is has a yellow bill with a downward curved point.

Kladderadatsch. The tutled the German Punckfounded by Allurk Hoffman. founded by Albert Hoffmann,

founded by Albert Hommann.

Kleptormania, a species of moral insanity, manifest
mg itself in an irresistible impulse to their.

Klipspringer, a small South African antelope
standing little more than two feet high. It has long
bristly hair, and short slight horns. Its habitat it

orselv hair, and short sight norms. Its manage of the cope, Kijpstainite, a hydrated silicate of manganese and iron, compact and dull, dark-hued, and akin to rhodonite in an impure state.

Itnappack, a bag containing necessary articles which a soldier carries strapped to his shoulder Formerly its contents consisted of food, but its

Formerly its contents consisted of food, but in vecent times it has been utilised mainly as the receptacle of atteles of clothing. Tourists knapsacks are a convenient adaptation of the idea.

Knighthood is a degree of honour or title common in Europe since the Middle Ages, and was at first exclusively a military order. In Great Britain the four main orders of knighthood are those of the Carter, the Bath, the Thiste, and St. Patrick; he addition to which there are several other orders such as the Order of St. Michael and St. George, th.

Star of India, etc. There are also Knights Bachelors, such as are not associated with any special order. The title is not hereothery, and therefore ranks below that of a baronet, though both are entitled to the prefix "Sir."

are entitled to the prefix "sit."

Robstick, a term of opprobrium much in use among the working-classes in England in the middle part of the last century, and applied to workmen who dissociate themselves from the majority, and either accept work while others are on strike, or otherwise decline to abide by the rules of

trades unions or associations.

Exact, a nautical mile equal to about ri of a statute mile, and measured by a log-line, which is divided by knots at equal distances—\(\text{t}_0\) of a geographical mile. The number of knots travelled by the ship in half a minute correspond to the number of nautical

miles it travels per hour.

Enout, a Russian instrument of punishment, consisting of a whip of many thongs, used upon Russian criminals since the 15th century, and so severe in its criminals since the righ century, and so severe in its effect that a large number of its victums died from its infliction. A hundred and twenty strokes were considered equivalent to a sentence of death; half that number sufficing to kill in many instances. Czar Nicholas I, however, changed the form of the koout, which is now a much milder instrument.

Mnow-nothing. a member of a secret political society in the United States of America, organised tor the purpose of obtaining a repeal of the Nationalisation Law; it lasted for two or three years only from 1853

Enurr and Spell.
Sports and Pastimes, See Pears' Dictionary of

Fruckle-duster, a formidable apparatus contrived for the purpose of protecting the knuckles and to add force to their use; frequently employed by garotters and other lawless ruffians.

Koala, an Australian arboreal marsupial mammal, with ashy-grey fur, bushy ears, and rudimentary tall. It feeds on leaves and roots, and is not more

than 2 ft. in length.

Koh-i-Noor (see Diamonds).

Kohl-mbi, the turmp-rooted cabhage, the edible protuberance upon the stem of which, just above the round line, is its most esteemed part.

Kohol, a powder prepared from antimony or burnt almond shells, and in common use by the women of

the East for darkening the eyelids.

Kongabergite, an amalgam of mercury and silver, occurring in crystals in the mines of Kongsberg, in

Norway.

Roodoo, a beautiful African antelope, the males being noted for spiral horns which when full grown are 4 ft. long. The aniunal is about 5 ft. high at the shoulder, and its grey-brown coat is ornamented with white stripes. It affords good sport to the hunter, being one of the fleetest aniunals on the African continent

Eopah, a Polynesian arold, cultivated by the natives of the South Sea Islands for its large edible yam-like

roots.

Koffan, the Bible of the Mahomedans, written by Mahomed in the 7th century, and supposed to be a transcript of a series of messages delivered to the prophet by the Angel Gabriel during a period of 32 years. It constitutes the law of life, civil, military, religious, and legal, to Mahomedans. It recognises Christ and Moses as prophets of God, but gives the chief place to Mahomed. It was not until 773 that an English translation of the Koran appeared, by George Sale.

Koffan, an ancient Arab tribe whose members kept guard over the sacred stone of Mecca before the rise

guard over the sacred stone of Mecca before the rise of Mahomed. When he appeared on the scene they opposed his claim, but were ultimately defeated by him and his followers.

Kos, a Jewish measure of capacity, equivalent to about four cubic inches.

Bota, a musical instrument in general use in Japan, consisting of a series of 25 silken strings stretched across a curved wooden surface, and played with the fingers. Each string is 5 feet long, and has a separate bridge so fixed as to give the vibration necessary for

the note it has to produce. It is a sort of horizontal harp, and in the hands of an expert player is capable of giving forth excellent music.

Moumiss, a beverage made from mare's milk fer-mented, and often served up with cooked grain; a common refreshment of the Arabs of Africa and some of the tribes of Asia, particularly the Tartars. Mrss.l, a hut or collection of huts in an African

village.

Kraken, a fabled Scandinavian sea monster, around which many legends and superstitions have been formed in Norway. It is generally described as a sort of sea-serpent, and was so large and weird of form as to be mistaken, so the tradition runs, by fishermen for an island.

Kramlin, a large fortified citadel in Moscow, containing the cathedral in which the Czars are crowned, an innerial palace, and important garrisons and

an imperial palace, and important garrisons and arsenals. At the foot of the Ivan Tower rests, in a cracked condition, the famous great Ivan bell,

weighing 200 tons.

weighing 200 tons.

Krautzen, an ancient German, and a modern
Austrian, coin, the hundiceth part of a florin or
something like the equivalent of our farthing. It
derives its name from the cross stamped upon it.

Krianna, one of the Hindu detties, and a clief
character in the Mahabharata epic.

Krone, a Scandinavian and Austrian silver coin
(Krona in Sweden), the Scandinavian coin being of
the value in English of 15. 14d, the Austrian about
10d. There are also rold coins of n and co kroner.

There are also gold coins of 10 and 20 kroner.

Krypton, an atmospheric gas belonging to the helium group and of a greater density than nitrogen. It was discovered by Prof. Ramsay in 1808, and exists

only in very minute quantities.

Kurang, a peculiar tailess Javanese lemur, remarkable for its habitual mactivity, mgamly structure, and slow motion; better known as the Slow-paced loris.

Ku-Klux-Klan, the tuth of a secret American asso-

AU-RIUX-RIBM, the title of a secret American asso-ciation whose members were sworn to continue active sympathy with the secression principle after the con-clusion of the Civil War in 1865. The organisation was wholly confined to the Southern States, but gave rise to many cruel outrages on Southerners and others who had been supporters of the North. Kullin, a Brahmin of high accredital position, to whom the providers of plurality of wise, in permitted with

the privilege of pluralty of wives is permitted, with whom he gets liberal downes, while each wife is maintained in the parental home.

Kummel, a Russian cordial, flavoured with cumin,

carraway seeds, or fennel.

Kunkir-zeed, the gum of the artichoke root, used by the Arabs as an emetic. Bungite is a recently discovered gent which is peach-pmk in colour, highly dictirote in quality, and posses-sing wonderful fluorescence. Upon exposure to the action of the X-rays or radium bromide, the gent-stone becomes phosphorescent, and remains so for some appreciable time after removal. After exposure to the X-rays it will, if placed in the dark, photograph itself upon a piece of sensitive paper. In respect to this phenomenon of fluorescence, Kunzite is unique among gem-stones. It was discovered by Professor George F. Kunz, Prosident of the New York Mineralogical Club, and has been given the name of its sponsors. So far it is found only in San Dirego, California.

ograde constant has been given the name of its spon-sor. So far it is found only in San Diego, California. **Rurds**, a native race inhabiting Kurdistan, a wander-ing, predatory people professing the Mahomedan faith and speaking an Iranic dialect.

Kussier, a Turkish musical instrument consisting of

five strings stretched over a sort of kettledrum.

Kusti, a woollen band of 72 threads—the number of
the chapters of the Izashue—and two branches, each

the chapters of the Lashue—and two Dranches, each branch containing six knots, together standing for the 12 months of the year.

Kutch, the packet of veilum leaves is which gold is placed for the first heating; the gold-heaters' skin packet into which the leaf is placed for the second beating is known as the "shoder."

Kutia, a special Russian dish caten after a funeral cereinony at a church or cemetery, and composed of boiled rice or other cereal mixed with honey and raisins, the ingredients being supposed to possess some symbolical significance.

wheat or mair. A superior kind is made from truits.

**Yilk*, the name given in ancient Greece to a graceiul double-handled drunking cup, in general shape
something like a modern champague gluss.

**Kymograph*, an instrument for measuring fluids,
especially the blood in living beings, and consisting
of a revolving cylinder containing a smoked paper
on which the pressure is recorded.

Eyrla Blackon, "Lord have mercy," the name of

a common form of prayer in the Roman Catholic and Greek Churches; also applied to the English church responses after the recital of the commandments.

responses after the recital of the commandments.

Kyriolaxy, a term indicating the use of literal as contradistinguished from figurative expressions.

Kyrle Boolety, named after Pope's "Man of Ross," John Kyrle, founded by Miss Miranda and Miss Octavia Hill in 1875, and having for its object the decoration of workinen's clubs, hospitals, etc., and the promotion among the poor of a taste for literature, units. But out does recreation.

music, and out-door recreation.

Kyrosite, an impure form of marcasite, known to the

Germans since 1725 as white copper ore.

Kyste, a chest or coffin for the burial of the dead,

Labadists were a sect of Christian communists instituted by Joan de Labadie in France in the 12th century. They did not distinguish Sunday from other days, holding that life w is all Sabbath.

Labarum, the standard of Constantine the Great, adopted after his conversion to Christianity, marked

with his seal, and represented upon the coinage,

with his seal, and represented upon the conage, Laboratory, a department or room, fitted with apparatus for prosecuting scientific investigations. Labour Exchanges, established in 1900, collect and supply information as to employers wanting workpeople, and workpeople requiring employment. The country is divided into ten divisions, each with a divisional clearing-house and chief, and all codivisional creating nouse and cane, and an ordinated with a central clearing-house in London. The number of exchanges open in Dec. 1972 was 444, at which time a daily average of over 3,000 vacancies were being filled through this agency.

Labourers, Statute of, was passed in 1440, and again in 1457, with the object of compelling belowiers employers' service, the Plague having rendered labourers so scarce that they were in great demand and had been insisting on higher pay. These enactments were bitterly opposed and led to the "Peasants' Revolt," headed by Wat Tyler.

Labour Party has a total memberdup of nearly 200,000, Affiliated with the party are 135 Trade Unions; 83 Trades Councils; 66 Local Labour parties; 28,000 of the Independent Labour party; and 3.237 members of the Fabian Society. In 1014 there were 30 members of the Labour party in Parliament, with J. Ramsay Macdonald as chairman. In the scoo Parliament the party had only o members

Labradorite, a mineral of a pearly lustre on cleavage, found in masses in igneous rocks, the best samples of which come from Labrador.

Labrax, a genus of fish, embracing the ancient Greek labrax and the ancient Roman lupus, and

typically represented to-day by the common bass.

Labyrinth, or maze, a combination of roads and passages so constructed as to render it difficult for passages so constructed as to render it difficult for anyone ignorant of the clue to trace the way to the central part. The Egyptian laburanth on Lake Maris had 2,000 rooms, bair of them sub-terranean, and the remainder above ground. The Cretan laburanth of the mythology was said to have been constructed by Dædalus. There was one at Lennos, renowned for its studentie column; and another at Clusium constructed by Porsenna, King of Etruria, about 500 B.C. The laburinti in which Fair Rosamond was concealed was at Woodstock, Hamricon Court was deter from the tele control Hampton Court maze dates from the 16th century.

Euttar, a form of Indian dagger with a handle of parallel bars and cross-piece. Expansion of Indian dagger with a handle of parallel bars and cross-piece. Expansion of the curious labyrinthine structure of the term of the curious labyrinthine structure of the term of the curious labyrinthine structure of the term o

number of tropical trees by the females of the lac-insect, the exudation including eggs and a viscous covering. At the gathering time the twigs are broken off and dried in the sun, when the insects die, and the lac that remains is termed stuk-lac. From this, by the removal of extraneous accretions and dissolving, seed-lac is produced. Shell-lac is seed-lac after it has been melted and otherwise prepared, and this is the best known of the lacs, being used in the m.nufacture of variables, and sealing-wax, and for

other commercial purposes.

Lac (or Lakh), a Sanscrit word, meaning a mark, used in India to indicate a lac (or 100,000)

rupees.

Laoe, a delicate fabric of linen, silk, or cotton threads, made by hand or machinery, and worked in various ornamental designs. The kinds of lace are many, deriving their distinctive names either from the method employed in production or from the place where any special variety was originally made. The metrod employed in production or from the pass where any special variety was originally made. The best known makes are pillow or bobbin-lace, woven and plaited by haid; needle-point lace, worked by the needle over a traced design; and machine lace, which practically dates from Heathcote's invention of the early part of the 19th century. Some of the most famed laces are the following:—Alencon, or the most fanical faces are the following:—Alemon, a needle-point lace; Brissels, a very fine kind, with needle-point sprigs and flowers; Chantilly, a silk variety with flowers and openwork; Clany, a net-lace with darned stitch; Honton, a delicate kind with damit sprigs and figures; Meckin, generally made in one piece and very varied in design; and l'alemonnes, or bobbin lace of great durability, the pattern and ground of which are made at the same pattern and ground of which are made at the same

pattern and ground of which are made at the same time, being one of the best and most costly of laces, now manufactured mainly in Belgium.

Lacerta, the name of a group of long-tailed lizards inhabiting the warmer parts of Europe and Asia. Also the name of a constellation, lying south of Cephrun, its most important star being only of the

fourth magnitude.

achesis, a genus of venomous snakes of the rattlesake family, confined to tropical countries, and including the "deadly bushmaster," of Surinam, and several Crotalide pit-vipers of Guiana and Brazil.

Lacquer, a variish made from shellac and certain

colouring matters, and utilised for imparting lustre to various surfaces of metal or wood. In China and Japan the production of lacquer ware of a decorative character has long been an important industry, bringing into use gold, coral, vermilion, sprinkled, and other lacquers, with pleasing effect.

Lacrimoso, a musical term denoting a mournful method of playing; sadly, with feeling.

carosse, a ball game largely played in Canada, but of Indian origin. See Pears' Dictionary of Sports and Pastunes

Lacrymatory, tube-like vessels of glass found in graves of the ancients of the urn-burnal period, and graves of the ancients of the urn-bural period, and supposed by some to have been the receptacles of the consecrated tears of lamenting friends, but really used for holding ointments or perfunes. Laca-d'Amous, a cord of running knots worn on the arm at one time by widows and unmarried women to denote their condition.

Lactic Acid is revealed in its commonest form in sour milk, but is found also in the fermentation of certain vegetable juices and putrifying animal matters.

notic Ethers, three different ethers, containing the same monatomic radical, derivable from lactic acid, viz., ethylic lactate, diethylic lactate, and mono-ethylic lactate.

Lactometer, a tube or instrument for ascertaining the proportion of cream in a quantity of milk. Called also a galactometer.

Lacustrine Deposits, a geological term referring to the strata deposits at the bottom of lakes which by the regularity of their occurrence afford favourable opportunities for scientific study.

Ladder, a framework of portable steps, made of wood or metal. There are innumerable varieties, according to their uses. Thus: the standing-ladder, the step-ladder, scaling ladder, companion ladder, collapsible ladder, etc.

collapsible laddler, etc.

Lady bird, the common name of a numerous class of beetles—the Coccinella. The insect is usually of a red or yellow colour with small black spots. It can fly easily, but as it crawls over leaves or walls its progress is but slow. Ladyburds are of good service to the gardenor by reason of their destruction of plant lice, amongst which they lay their eggs; and as the larva come to life they feed on the lice.

Lady-Day, the day of the festival of the Annunciation of the Virgin Mary, March 25th. One of the four English quarter days.

four English quarter days.

Lagoon, a stretch of shallow water opening out upon the sea. The most fauiliar example is that of Venice,

which is built on lagoons.

which is built on lagoons.

Lake Dwellings, the name given to certain prehistoric habitations originally built above the waters
of lakes or rivers, evidences of which lawe been
found in Switzerland, Britain, and other parts of the
old and new world. They were erected on platforms
supported by piles, the stumps of many of which
still remain. The most valuable evidences in this
connection, however, are the recovered fragments of
pottery, bone, finit, bronze and from implements,
as well as some few human skeletons, affording interearlier, technony to the primitive evistence led by esting testimony to the primitive existence led by the lake dwellers.

Lakes are bodies of water collected in depressions of the earth's surface. The most notable lakes are the Great Lake series of North America, including the Great Lake Series of NORTH America, Incidence Lakes Superior, Michigan, Huron, Erie, and Ontario, all discharging into the St. Lawrence River. Africa has an enormous area of lakes, including the Albert Nyanza and the Victoria Nyanza, forming the sources of the White Nile, lakes Tangauyika, Nyasa, Tchad, Smalla lakes are a numerous, in other countries.

of the White Nite, lakes I angallyika, Nyassa, I chad, etc. Smaller lakes are numerous in other countries—Switzerland, Germany, Italy, England, Ireland, Scotland, will having their lake regions, where the scenery is invariably beautiful and romantic.

Lake Bohool, the name given, at first in ridicule, to a distinguished the of poets—Wordsworth, Coleridge and Southey—who made their homes in the English Lake District. The term means little, however, in point of literary classification, as there was little real affinity of thought between the three

oets named.

Lalo, the leaves of the Baobab, dried and powdered;

a favourite food of certain African tribes.

Lama, the high priest of the Tibetan Buddhists, usually styled the Grand Lama, and supposed to be the incarnation of Adibuddha, lives in a palace at the incarnation or Authuddina, lives in a palace at Lhasa. A British insison, sent out to compel the removal of certain trade restrictions, took possession of I laisa in 1904, from which the I ama had previously fied. The result was the election of a new I ama and the signing of a better trading treaty. In 1970, Chinese action compelled the Dalau Luna to seek refuge in India, when he was deposed by the Chinese retuge in India, when he was deposed by the Chinese government; but in you he returned to Tibet, and, although he was still opposed by China, British intervention prevailed and he was allowed to remain.

Lannaism, the form of Buddhism prevalent in Tibet, with a very exclusive saccrotal organisation, of which the Grand Lana is the head.

which the Grand Lama is the head.

Lamelillbranchiata, a class of molifics, apparently headless, with lamelilform gills. The body is enclosed in a pair of lateral valves divided across the back and held together by a hinge.

Lamelilcornia, a class of insects of the Colooptera order, remarkable for their lamelilferous antenne with club-like terminations. They are herbivorous and number several thousand species, the best-known representatives being the stag-beetles and cockchafers.

Lamination, a geological term designating a class of rocks with thin cleavages, such as slate or shale.

Lammas Day is one of the oldest of the Church festivals, probably derived from the loaf-mass (Hlaf-messe) of the Anglo-Saxons. It occurs on August I. In the olden times it was the day wher loaves were given in place of first fruit offering.

Lammargaler, the bearded vulture of Alpine regions, and the largest of European birds of prey. It has a white head with black tuffs at the base of the bill and its general plumage is day heavy.

the bill, and its general plumage is dark brown, nearly black. It mainly inhabits the mountain ranges of Southern Europe and Northern Africa, and extends to China.

extends to china.

Lampblack, a carboniferous pigment obtained from fame-smoke, and now produced in specially constructed furnaces in which bodies rich in carbon,

structed furnaces in which bodies rich in carbon, such as tar, resin, petroleum, etc., are burned. The smoke or soot resulting is collected from the sides of the furnace, and forms lampblack, which is largely used in ink and paint manufacture.

Lamprey, an eel-like fish found in the rivers and on the soa-coasts of Britain and other temperate regions. It has a circular suctoral mouth and teeth, and lives on other fishes. There are three British species, the River Lamprey, the Snall Lamprey. And the Sea

on other fishes. There are three British species, the River Lamprey, which attains a length of a feet. Some Lampreys, which attains a length of a feet. Some lampreys spawn in the higher reaches of rivers.

Lamps are vessels for holding an illuminating agent, and in modern times are of many kinds. In Anglo-Saxon times they were made of horn. The first public street lamps were oil lamps, London being lighted in this manner in 1681. Gas lamps were introduced in 1814. A great advance was made in domestic lamp illumination by Argand a Frenchman in 1882. a rist. A great advance was made in donestic lamp illumination by Argand, a Frenchman in 1767, a lamp invented by him having a circular burner or wick, and by the admission of a current of air oxygenised the flame. This procedure, together with the enclosing glass tube adopted, greatly increased the bulliance of the light. Among the more distinctive lamps of later times are the various electric lamps, the incandescent gas lamps, the parafin oil and naphtha spirit lamps, the submarine lamp for burning under water, and the Davy safety lamp for collicry use

collery use
Lance, a military weapon carried by cavalry regiments, and consisting of a long spear for hurling at or charging an enemy with. The wars-lance of the Middle Ages was about to feet long, the present-day lance rarely exceeds 11 feet.

Lancelst, a set-fish of slight development, without skull or brain, and having for backbone a gelatinous and developed of the I is not unequipment agond the

rod devoid of ribs. It is not uncommon around the

British coasts, living mostly in the sand.

Lancers, light cavalry soldiers armed with lances.

Most European armies contain regiments of Lancers the Russian Cossicks, the German Uhlans, etc.,-but there were no regiments of Lancers in England before 1816. " Lancet." the name of the chief English medical

journal, established in 1823 by Dr. Wakley.

Lancewood, a hard, durable, and elastic kind of wood obtained from certain West Indian trees of the Anonacea order, and much used in coach-building;

Anonaces order, and much used in coach-building; in Guiana, the wood is called Yari Yari.

Land is the carth's surface, or, more strictly, that portion of it which is unsubmerged. The total land area of Great Britain is \$5,20,000 acres. In 1881 the land and houses of the United Kingdom yielded an aggregate rental of £55,000. In 1882 there were nearly a million land-owners in England and Wales (exclusive of the metropolis), 703,000 of whom owned less than one acre. It is estimated that more than half of the land of the kingdom is now possessed by whom 2 or nervins.

about 7,000 persons.

Landau, a kind of carriage, originally made at
Landau in Germany, its distinguishing feature being
that the covered top is in two parts and can be let

down or put op as required.

down or put on as required.

Land Crab, a family of crabs which live mainly on land, though as a rule migrating to the sea to deposit their eggs. When their offspring attain full development in the water, the old crabs return to their inland quarters, taking their young ones with them.

Land Leagua, an association formed in 1879 by Parnell and others for compelling a reduction in the

rents of land in Ireland, and in case of non-compliance refusing to pay rent. For a time this League exercised great political influence and was an important aid to the Home Rule agutation. Landrall, popularly known as the Comcrake, is a regular summer visitor to Britain, and is well known but the bases and visiting rate as familiar un corn-

by its harsh and piercing note, so familiar in corn-lands in the night-time.

Landslip, a breakage of a mass of soil or rock away from a mountain, hill, or chff, due to a variety of natural causes, such as the saturation of the earth by water or the decay or slipping of portions of rock. Many serious landslips have occurred from time to time. In 1618, an earthfall happened at Plurs, on Lake Como, involving the destruction of many buildings and the loss of numerous lives. In 1806 a buildings and the loss of numerous lives. In 1806 a portion of Rossberg mountain in Switzerland slipped from its position, and falling into the valley below burned many villages and hamlets and over 8.0 people. A chalk cliff from 100 to 150 feet high and three-quarters of a mile long fell at Lyme Regs. in Dorsetshire, in 1830, doing terrible damage. Over 200 people were killed by a landship in Nynee Tal, in India, in 1880; and at Quelvec, in 1880, a rocky emmence called Cape Diamond gave way, many buildings being destroyed and lives lost.

buildings being destroyed and lives lost.

Language, words by which thoughts are uttered or
expressed, is divisible into many groups. There
were thirteen original European languages; Greek,
Latin, German, Sclavonian, Welsh, Biscayan, Irish,
Albanian, Tartarian, Illipian, Jazygian, Chaucin, and
Finnic. Italian, French, Spanish, and Portinguese
are offshoots of the Latin tongue. The Tentonic is
the foundation of the present German, Panish,
Swedish, Norwegian and Figish languages. Turkish
is a Tartarian dulect. There are on languages in

is a Tartarian dialect. There are 3,000 languages or dialects spoken throughout the world.

dialects spoken throughout the world.

Langue of the Troubadours—confined to the country south of the Lore. It derived its name from the fact that it used or instead of our for the affirmative.

Langue d'Out, the old northern French dialect, distinguished by the use of our for the affirmative, in contradiction to the langue d'oc, just noticed.

Languria, a beautiful and of small arboreal beetles of metallic sheen, inhabiting most parts of the world, and peculiar because of their short antenna. The langurians sul-family includes the "Laityburds." Lanlids. constitute the shrike family of birds, which there are about 200 wiledy distributed species.

Lanner, the name of a distinguished member of the falcon family, chiefly inhabiting the countries around

falcon family, chiefly inhabiting the countries around

the Mediterranean.

Lantern, a case for enclosing, holding, or carrying a light. In its earliest form it was made of horn, and called a lanthorn, but the name now covers a variety of forms, from the large stationary lantern of a light-house to a Chinese collapsible paper lantern. See Magic Lantern, etc.

magic Lantern, etc.

Lantern Fly, the name of a class of insects of the

Fulgora genus, with muzzle-shaped heads which are
said to emit a light like that given forth by fireflies
in the dark. They occur in China, Brazil, and other
hot countries, but recent naturalists dispute the
actual luminosity of the insect.

Lantern of England."—Bath Abbey possesses or

many windows their it is called locations their lands or

many windows their it is called locations.

many windows that it is called sometimes the "Lantern of England." It was a "Popush service "held at Bath Abbey by James II, that induced Bishop Ken to sign the invitation to William of Orange, though he afterwards repented and became a Non-Juror. Among numerous interesting monuments Bath Abbey contains that or Malthus, whose Essay

on Population gave the first inspiration to Darwin.

Lanthanum, a scarce metal discovered by

Mosander in 1841, found in association with didymium

in the oxide of cerium

in the oxide of certain Lapidary, a cutter of, or dealer in, precious stones; also used in adjective form in regard to the working, engraving, or setting of stones.

Lapidary, or setting of stones.

Lapidary and granite, from which the ultramarine pagment is obtained. The best comes from China with Pereir. and Persia.

Lapwing, or Plower, is a familiar bird on the moors and marshy places of Britain. It is often called the "peewit," from its cry. Its back and wings show green, violet and purple tints, and the under parts are white. It carries a black crest. Plovers eggs are a table luxury much esteemed. Larboard, is the old natural term indicating the left-hand side of a ship, now more commonly called the port side.

the port side.

Larch, a familiar conferous tree in the mountain region of northern Europe, and though not native to Britain, the Common Larch is successfully cultivated in various parts of the kingdom. It is one of the best of all turpentine yielding trees, and the bark is valued for tanning.

valued for tanning.

Larceny in its broad significance means the fraudulent taking away and appropriation of the personal
goods of another. Larceny is of two kinds: simple
larceny which is their apart from accompanying
aggravation; and compound larceny, that which is
rendered more serious by being combined with assault, or forced entrance into an enclosed place, such

Lard is the clarified fat of swine. Originally it was almost exclusively used in cooking, but now it is also utilised for a variety of commercial jurposes, such as the making of jub-meating oil, the manufacture

of candles, etc.

or cannies, etc.

Larea were tutelary deities of the ancient Romans and of two classes, Lares domesties, the household gods, and Lares public, the god of public places. Both classes were represented by innunes or statues, Laridae, a family of web-footed swimming gulls, white and pearly blue in colour, very widely distributed over the sea coasts of the world and feeding

mainly on fish.

manny on this.

Lark, a family of birds (Alaudidæ) of which there are about no species, some of which—notably the skylark—are famed for their marvellous singing and saring qualities. They build their nests on the ground in the open country. Britain has six species, of which the sky lark and the woodlark are the best known. Africa has the greatest number of larks; Amedica has only one species the horned lark but America has only one species, the horned lark, but it is not a true Alaudid.e.

Larkspur, the common name of the genus Del-phinium, a favourite flower introduced into British

phinium, a favourite flower introduced into British gardens from Switzerland in 1972.

Larva, the undeveloped form of any animal which, before maturity, undergoes metamorphosis. The term was formed used only to designate insects in the caterpullar stage, but now takes in the larval forms of the frog (the tadpole) and numerous other control of the frog (the tadpole). early stages of animal existence.

carry stages of animal existence.

Lascar, commonly an East Indian sailor engaged in
British or foreign service The name is also given to
East Indian camp followers and regumental servants.

Lastage, a shipping term referring to the lading of a
ship, and also formerly a duty for the right of conveying goods by ships.

Latean, a triangular sail affixed to a tapering yard,
much used on light cargo vessels of the Mediterrancan.

Latent Heat is a term expressing a condition in which, when a solid is converted into a liquid, or a liquid into a gas, a certain amount of heat is absorbed. and, having no effect on the thermometer, is de-scribed as litent.

Lateran Councils were the eleven religious conventions held in the Lateran business at Rome for deciding important questions of Church doctrine. The first was held in 649 to deal with the Monethelites; three were held in the 19th century, one in the 19th, and the rest in the 16th. That of 1179 formulated the laws for the election of Popes; and that of 1213 pro-

laws for the election of Popes; and that of 1225 pronounced in favour of the Clusside.

Latarita, a peculiar ferriginous kind of rock, extensive beds of which are found in India and Ceylon. Much of it belongs to the Terriary period.

Lataroflexion, a scientific and pathological term signifying "a bending aside."

Latag, a genus of fishes of the perch family. There are only three species, two of which are found in the Nile and in Queensland, while the third is confined

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to Australian rivers only. It attains the length of

to Australian rivers only. It attams the rengin from z to 3 feet.

Latitude is the extent of the earth or the heavens reckoned from the equator to the pole, and was first determined by Hipparchus, of Nice, about 76 B.C.

Latitudinarians, a body of theologians whose object was to enlarge the scope of the Anglican Church so as to bring the Nonconformsts within its fold, and included such eminent ryth century dwines as Burnet, Tillotson, Hales, and Chillugworth. At the present day the term is applied generally to such as are opposed to doctrines and forms of any kind.

Laughing Gas is nitrous oxide, and received its name from the fact that on being inhaled its first effect was to produce exhibitation. It was one of the

earliest anæsthetics, and is much used in dentistry

and for minor surgical operations.

Laughing Jackass. (See Kingfisher.)

Laughing-stock, a butt for ridicule, a person or an

object provoking scornful hilarity.

object provoking scorniu intarity.

Laughter, a convulsive action of the respiratory
muscles, accompanied by a succession of short vocal
sounds, induced by sudden joy or nirth.

Launce, a family of eel-like sea fisites found in large
numbers on the coasts of North America and Europe.

numbers on the coasts of North America and There are two species common to British waters. These fishes are of a bright silvery hue, and live the sand underneath the water. They are much in the sand underneath the water.

Laundry, any room or building in which the work of washing and ironing of clothes is carried on Steam laundries have become common in recent times, and in many ways—the introduction of improved washing soaps, and of labour-saving contrivances generally—

soaps, and of labour-saving contrivances generally-laundry operations have been greatly simplified. Laurentian System refers to a group of rocks in the region of the Upper Lakes of Canada, repre-senting at some points a thickness of \$\gamma_{\text{con}}\$ of etc. No fossils are found in this group, and the interence is that it is the most ancient known.

Lauric Acid, a monobasic acid obtained from the oleaginous principle of pichurin beans, and from butter, cocoanut oil, etc.

Lava, the molten fluid rock which is ejected from a

volcano while in eruption. Voicano winte in cruption.

Lawer, the popular name of certain varieties of seaweed, Paphyra, which attach themselves to rocks and are used as food or condiment.

Lawn, very fine sun-bleached linen, in olden times called "cloth of Rheims."

Lead, a soft mallcable metal, occurring in numerous ores, which are easily smelted. It is found in its ores, which are easily smelled. It is found in its native form in small quantities in Sweden. Lead is largely used in the making of service pipes on account of its pliability; and as an alloy element it combines in the formation of type metal, stereo metal, shot metal, power, and many other cometal, shot metal, power, and many other commetal, shot metal, pewter, and many other com-pounds. Lead mining is carried on in several of the northern counties of England and in Wales. Our chief imports of lead are from Spain. The lead output of the world now averages over 1,000,000 tons per annum, of which about one-fourth is raised within the British Empire. Australia being the chief British

lead-producing region.

Leaf-Insect, a peculiar class of insect which in

Leat-Insect, a peculiar class of insect which in colour and form so closely resembles a leaf that it is difficult to distinguish the one from the other. The genus is entomologically styled Phyllium, and one variety is familiarly known as the "walking leaf." Leagues, or combinations of kings, countres, or communities, have been frequent since the kings, or combinations of kings, countres, or communities, have been frequent since the kings of Canaan united against the Israelites. Among the most famous leagues may be mentioned the Holy League which prevented the accession of Henry IV of France until he became a Roman Catholic; the Solemn League and Covenant of Scotland in 1638; and the League of Augsburg against France in 1636.

Leap Year (or Bissextile) was fixed by Julius Cæsar, 45 B.C., the addition of one daysin every four years bringing the measure of the calendar year even with the astronomical year, with three industs payer over; this again is levelled up by dropping leap year over; this gain is levelled up by dropping leap

year at stated intervals. Thus 1700, 1800, and 1700 were not leap years, but it will be some centuries now before another rectification will be required.

Leather was made in ancient Egypt, Greece, and Rome, and has through succeeding certuries played an important part in the service of man. It consists of the dressed hides or skins of animals, after the process of taniung has been gnoethrough. Untanned skins are known as pelts. Leather is classed either according to the skins from which it is made or the system of preparation employed. The best-known kinds are morocce, kid, Russia, chamois, Cordovas, grained, patent, russet, tan, calf, Hungarian, etc.

Leaven, a mixture of flour and sour milk, formerly used in fermenting large quantities of fresh dough, a preparation now superseded by yeast.

Leach, an aquatta blood-sucking worm, mostly found in fresh-water ponds. Each end of the body is provided with a sucker, but that at the head end has jaws and teoth. The medicinal leech has three jaws. The leech attaches itself with avidity to animal bodies and sucks until glutted. This medicinal leech is common in the South of Europe: the dark-hued Horse Leech is the most common species in Britain.

Horse Leech is the most common species in Britain.

Leeward, a nautical term, meaning in the direction

Leeward, a natural term, measure of the wind.

Legal Tender of Gold is good in this country to any amount; of Bank of England notes for any sum above £5, except in certain circumstances by the bank itself; silver is legal tender up to 40s., bronze for the certain to fell. up to is, farthings up to 6d.

Lagand, a story in which the marvellous, so rematural

or mythical is a leading feature. The earliest forms of legends were the stories of the lives of the saints.

of legends were the stories of the lives of the saints. Legardermain, sleight of hand, conjuring, juggling, a kind of performance in which trick and dextenty of hand deceive the eye and give the impression of feats that are naturally impossible. Legion, a body of Roman troops, varying in numbers at different periods. Under Marius a legion consisted of 6,200 soldiers, besides 700 horse. Augustus's army was composed of 45 legions, with the addition of 25,000 horse and 37,000 light armed troops. A legion was divided into 30 colorits, and every cohort into time companies. Each containing two centingns. three companies, each containing two centurions. Three legions composed the Roman army of occupation in Britain.

Legion of Honour, the French order for dis-tinguished services, military or civil, was instituted by Napoleon I. in 1802, and confirmed and modified under later rulers. There are five grades—Grands Croix, Grands Officiers, Commandeurs, Officiers, and Cheva

Legitimists, supporters of the claims of the elder branch of the Bourbon family to the throne of France. The death of the Comte de Chambord in 1883 childless transferred the right of claim to the Comte de Paris, head of the younger Bourbon branch. Legumin, a introgenous proteid substance obtained from peas, beaus, and similar plants. It is also called "vegetable cosem."

Leilpon, a kind of pheasant native to Australia, nesting Lema, the North American potato beetle, a voracious little insect, with yellow head and body marked with three longuiudinal deep black stripes. The famous Colorado potato beetle belongs to the Phytophaga tribe, as does also the "Turnip-jack," the larvæ of which are the plague of the British farmer. Lemming, a small light brown rodent with dark spots, abounding in Scandinavan countries and in Siberia. There is an American species found in the Hudson Bay region. The lemming is about 5 inches long, with a short stump of a tail. Leipos, a kind of pheasant native to Australia, nesting

long, with a short stump of a tail.

long, with a short stump of a tan.

Lemur, a group of mammals nearly allied to
monkeys, noted for having strong pliant toes enabling
them to use their feet as hands, and also welldeveloped friumbs on the hands. They have long
squirrel-like tails and fox-shaped heads, and are distributed over the tropical parts of the old world.

Lenses are, broadly speaking, either convex, having
the thickest nat in the centre and marnifying.

the thickest part in the centre and magnifying objects, or concave, with the thinnest part in the centre and reducing the objects. Each kind has

several varieties, peculiar from their proportions, arangement, and specific effects.

arangement, and special enects.

Lent, the old sy period of fasting that precedes Easter.

Leo, one of the re signs of the Zodiac, bounded on
the west by Cancer, and on the east by the Virgin.

The constellation consists of 75 stars, one of which is Regulus.

Leopard, a well-known carnivorous spotted mammal, an inhabitant of Africa and Asia. Its skin has a light tawny ground, which is covered with dark

brown spots.

Lapidodendron, a fossil plant of gigantic height (nearly too feet) bearing a cone-like fruit, frequently met with in the coal strata.

Lapidoganoid, the second sub-order of the ganoid

fishes in Owen's classification, their bodies being covered with scales of moderate size.

Lapidoptera, an order of insects embracing the various species of butterfiles and moths.

various species of butteries and motifs.

Lepidosiren, a genus of ganoid fishes, whose sole surviving representative is the Mud-fish, confined almost exclusively to the Amazon.

Leporides, the scientific name of all animals of the

hare and rabbit family.

Lepus, the constellation of the Hare, situated under the Orion group, and one of the constellations with which the ancients were familiar.

Lernma, a parasitic cristacean which is more fully developed in its young than in its adult existence. After entering upon its parasitic stage it has no use for external organs and loses them. Its presence is believed injuriously to affect the vision of the fishes

believed injuriously to affect the vision of the ishes upon which it is parastic.

Lettrea de Cachet, scaled letters which the kings of France issued to their agents to secure the improvement of distrusted or disliked persons without trial. Abolished in 1789,

Leucina, a crystalline, pulverulent substance produced by the decomposition of nitrogenous matter, otherwise known as amidocannois acid, and called

by the decomposition on introgenius marrer, otherwise known as amido-caproic acid, and called leucine because of its whiteness.

Leuciscus, a genus of fishes of the Carp family, distributed over the waters of all temperate regions,

and comprising some of species. The reach, thut, and dace are of this family, also the white mullet and the minnow.

the minnow.

Lawés, a State reception by the king attended only
by gentlemen.

Lawellers, an English military-political party prominent about r647 in the Park-tmentary army, and
advocated the leveling of social distinctions.

Lawer, a rod-like bar of metal or wood used for
raising heavy bodies, and worked by means of a
support called the fulcrum placed at a given distance
underneath the lever. underneath the lever.

Lewis, a contrivance of stone-lifting, the principle of

Lewis, a contrivance of stone-lifting, the principle of which was known to the autent Komans: it consists of two dovetail tenons of ron or other metal, expanded by an intervening key in a dovetail-shaped mortice in the stone, and shackled by a ringed bolt to the holisting chain.

Layden Jar, an apparatus for accumulating electricity, invented by Cuneus of Leyden in 1726, and consisting of a jar coated inside and out with tinfoil for about two-thirds of its height, and having its inner coating connected with the top by a brass knob and chain. Thus an electric charge is set up, and a number of lars will constitute a battery. knob and cham. Thus an electric charge is set up, and a number of jars will constitute a battery.

Li, a Chinese distance measure, about the third of an

English mile. Also a Chinese weight, the thousandth

part of an ounce, or liang.

Lian, a geological term referring to the lower section of the Jurassic group, and mainly comprising shales and limestones

and limestones.

Libbal, any writing, printed matter, picture or illustration put forth with malicious intent for the purpose of bringing a person into public ridicule and contempt. An aegyrievel person may proceed either by civil action or criminal indictment. A good defence is that the words complained of are true and to the public advantage to be made known. Since 1881 no newspaper proprietor can be criminally prosecuted for libel without the fast of the Public Prosecutor. A spoken libel is slander.

Libra, the Scales, one of the twelve Signs of the

Zodiac, Gying east of the Scorpion.

Liberals, a political party name that came into vogue about 1828 to designate the advanced Reformers.

about 1828 to designate the advanced Ketormers.
Liberal Unionists, the portion of the Liberal party
which separated from Mr. Gladstone on the Home
Rule question in 1886, and afterwards became alhed
with the Conservatives. On the introduction of Mr.
Chamberlain's Tariff Reform policy many Liberal
Unionists withdrew from the alliance, and continued to support Free Trade. Apart from this, Liberal Unionists have acted with the Conservatives, and now the term Unionists covers all sections of the Conservative party.

Libraries, before the invention of printing, were

albraries, before the invention of printing, were few and only got together at enormous cost. A: Nineveh remains of libraries, consisting of tablets of baked clay, have been discovered. A public library existed in Athens in 50 B C. The library at Alexandria, destroyed when Juhus Cæsar set from the city, 47 B.C., contended 400,000 valuable MS. books. Among the great libraries of later times may be mentioned the Vatican Library at Rome, founded in 1588; the Royal Jubrary at Paris (1350), now containing over 2,000,000 vols.; the Astor rounced in 1588; the Koyal Library at rars (1595), now containing over 2,00,000 vols.; the Astor Library, New York; and in England, the Bodeian Library, Oxford, and the invaluable British Museum Library at Bloomsbury, the latter containing over 2,000,000 vols. Since 1890 Free Libraries have been established in all the chief cities and towns of the kingdom, and Mr Andrew Carnegie has devoted several nullions sterling to the building and endowment of such institutions in America and the United

Kingdom.

Library of the India Office. This interesting library contains some 12,000 manuscripts, including over a thousand volumes of Arabic documents in a general collection, and nearly 3,000 taken from the Mogul archives upon the fall of Delhi, when some 2,600 Persian manuscripts were also taken. There are 3,000 Persian manuscripts in a general collection, The library also comprises Pail, Burmese, Singhalese.
Malay, and Javanese paper and palm-leaf writings,
and 336 volumes of Thibetan and 921 volumes of and 336 volumes of I libetan and 921 volumes of Chnnese block prints, besides many miscellaneous documents collected by Hodson and Wilson, and some 860 volumes of English and European manuscripts of historical value, severally collected by Ornne, Mackenzie, Elliott, Buchanan-Hamilton, Wilks and othors. The other department of the library—that of printed books—lags two divisions, the "Red" or Oriental side, comprising some 14,000 volumes in Lastern languages or translations therefrom, and the "Blue" or European side, which contains no fewer than 200 volumes. Every facility is tains no fewer than 42,000 volumes. Every facility is given to reputable literary workers to refer to or take

nway on loan any books or menuscripts.

Libration, an astronomical term referring to an apparent irregularity in the moon's course, which may be libration in longitude or latitude, or diamal, and due to a variety of causes.

Libyan, a group of languages spoken by tribes inhabiting the mountain districts of Berbary.

inhiabiting the mountain districts of Barbary. License, special permission to do or sell certain specified things, usually such as are liable to excise duty. Licenses are required for keeping carriages, dogs, for shooting game, for hawking and peddling, for selling beer, ale, wines and spirits, tobacco, pattent medicanes, etc. Excise duties in the United Kingdom produce over thirty millions sterling. Lictor, a public functionary of Ancient Rome whose duty was to carry out the orders of the magistrates, punish offenders, and attend upon his superiors on all nublic occasions.

all public occasion

all public occasions.

Lien, the right by which a person holding personal property of another can retain possession of it until some claim that he has against the owner is satisfied.

Lieutenant, a title implying the holding of an office under or for a superior. Thus, a Lieutenant-General is nort under the full General and takes his place in his absence, and so also with regard to Lieutenant-Colonels. When the title is held along it

ranks in the army next to the Captain, and in the navy next to a Commander.

Life-Boat was invented in 1785 by Lionel Lukin, and in 1790 a greatly improved boat was introduced by Henry Greathead, who received a parliamentary grant of £1,200 for his Invention. Later hoats are a great advance upon Greathead's. The Royal National Lifeboat Institution, founded in 1824, has National Lifeboat Institution, founded in 1824, has the lifeboat service of the Unted Kingdom under its control. Over 47,000 lives have since been saved by the lifeboat service and considerably over a quarter of a million sterling has been paid in pecuniary rewards. Two houdred and eighty-three lifeboats are maintained at the expense of the unstitution.

Life-Guards (see Guards).

Light has a velocity of 186,000 miles a second, eight minutes sufficing for light to travel from the sun to the earth, a distance of 26,750,000 miles.

Lighthouses to warm ships of dangerous places and indicate coasts, points, harbours, etc., have existed since the building of the first Pharos at Alexandria.

since the building of the first Pharos at Alexandria.

88 B.C. In early lephtouses the lights were simple fires. A coal fire light was shown at Tynemouth Castle Lighthouse in 1638. There was no great advance made in lighthouse building until the first Eddystone erection was put up in 1758-6 (see Eddystone). The whole problem of lighthouse building and lighting, invested though it has been with tremendous difficulties, may be said to have been mastered within the last century; not only are the present structures imprognable to storm and tempest but the light that they are supplied with is a thousand times more buillant than under the older systems. The introduction of parobolic mirrors was a great improvement, providing a reflecting medliun systems. The introduction of parobolic mirrors was a great improvement, providing a reflecting medlum that carried to a great distance. Further improvements were made by Fressnel, Stevenson, and others, and now the electric light I as been adopted to a large extent with ample success. The whole of the lighthouses of England are under the control of Trinity House: Commissioners of Northern Lighthouse and the Leich techniques of the second of the light of the lighthouse is considered bytes of Scotland; and the Leich techniques of the second of the lighthouse is considered bytes of Scotland; and the Leich techniques of the second of the light of the houses control those of Scotland : and the Irish light-

houses are controlled by the Dublin Ballast Board.

Lightning is an electric discharge from the clouds, and is usually forked or sheet. The former is the

more dangerous.

Lightning Conductor, a metal rod, the upper part of which is of copper with a control point, the lower portion being iron, which extends into the earth. Its effect is to gather to itself the surrounding electricity and discharge it into the earth, thus pre-venting its falling upon the protected building. In ships, lightning conductors are fixed to the masts and carried down through the ship's keel-sheatling.

Lignin, a substance found in the cell walls of plants,

and present in all woody fibres.

Lignita, an intermediate substance between peat and coal; it is, in fact, undeveloped coal, and known as

thibutian Armies.—The smallest army in the world is that of Monaco, with 15 guards, 25 carabineers, and 20 firemen. Next comes that of Luxemburg, and so firemen. Next comes that of Luxeniburg, with 13g gendarmes, 70 volunteers, and 30 inusicans. In case of war, says the law, "the number of volunteers may be temporarily raised to 250." In the Republic of San Marino they have universal compulsory service, with the result that they can put in the field nine companies, comprising 500 men and 38 officers, commanded by a marshal. This, however, is the war strength of the forces. On a peace footing the Republic can only put one company of 50 men on the parade-ground. In the case of the Republic of Liberia, the most striking feature is the proportion of officers to privates. The 32 are 800 of the former and only 700 of the latter. None the less, the Republic issues proclamations of neutrality when wars break out between the great Powers of Europe. Limburger, a specially strong kind of cheese made at Limburg, a province partly in Holland and partly in Belgium.

in Belgium. Lime, an alkaline earth obtained from kiln-heated

limestone, and used in making mortals and cements, also as manure for difficult solls, and in taming.

Limelight is produced by directing an oxy-hydrogen fame upon a piece of quick-lime, which reflects a brilliant white light. This stream of light gathered

in a lantern is used for illuminating objects—on the theatre stage, for instance—with an intense brilliance, and for signalling and other purposes. Limestone is carbonate of calcium. It is found in

wery geological formation, and is highly fossilierous.

Marble is limestone of a specially hard kind.

Limpet, a well-known marine molinac with a singlevalved shell, generally found sticking close to sea-

washed rocks.

washed rocks.
Linen, a textile fabric manufactured from flax fibre, known to the ancient Egyptians, and first manufactured in England under Henry III by Flemish, wesvers. The chief seat of the manufacture is the North of Ireland, with Belfast as the centre. Dundee and Leeds are also large innen-producing towns.
Ling, a sea-fish common on the coasts of Britain, and abounding in more morthern waters. It averages

Ling, a sea-han common on the coasts of Britain, and abounding in more northern waters. It averages from 3 to 4 feet in length, and is a voracious feeder, living chiefly on small fish.

Linaead, the seed of the flax plant, containing, apart from its fibrous substance, certain oily and nitrogenous matter of considerable commercial value. This yields linseed oil, and what is left is converted into cattle ford. into cattle food.

into cattle food.

Lion, the chief representative of the Felidæ and Carnivora, now chiefly found on the African continent, though at one time it must have roamed over Europe, fossil lions having been discovered in Britain. Its large square head, its flowing mane (in the males only), and its tufted tail distinguish it from other animals

tion and Unicorn, the supporting figures of the royal arms of Great Britain, date from the union of Scotland with England at the accession of James I James VI of Scotland, the lion representing England and the support and the procession of the pr

land, and the unicorn Scotland.

Liqueurs are essences combined with alcoholic liquid, and are of many kinds, named according to their flavourings or place of production, and include Maraschino, Chartreusc, Curacoa, Benedictine,

Noyau, Kummei, etc.
Liquid, the name popularly given to any flowing substance. The line of demarcation between the most flexible solid and the thickest liquid is almost imperceptible. All liquids are composed of mole-

les or particles.

Liquorice, a juicy substance obtained from the root of the Glycyrrhiza glabra, and used in the making of sweetmeats, and as a throat remedy. Pontefract is the chief seat of the trade in England, what are called Pontefract (or Ponifret) cakes being made from liquorice.

from liquorice.

Lipa, an Italian silver coin, equal to roo centesimi, and worth in exchange about 8\footnote{M}. English.

Litanies were first used in church processions in the 5th century. The first English litany was commanded to be recited in the Reformed churches by Henry VIII in 15\footnote{M}.

Lithium, obtained from an alkaline substance named lithium.

Lithium, obtained from an alkaline substance name inthia, was discovered in 1817 by a Swede, Mr. Arfwedson, and is the lightest metal known. It resembles potassium in its chemical composition. Lithography, the act of writing on stone and printing therefrom, was discovered by Alois Seneetider about 1799, and was introduced into England a lew

years later. Many improvements in the art have been ade in recent years, especially in chromo-lithography

madeu recent years, especially in chromo-lithography
Lithoscope, an instrument invented by Sir David
Brewster in 1864 for distinguishing precions stones.
Litmus, a special kind of colouring matter produced
from certain licheus by fermentation and ammoniacal
treatment. The resulting colour is violet, which can
be converted into various blues and reds. It is
turned red by acids and blue by alkalies.
Litre, a French measure both for liquids and dry
articles. In the former measure it is equal to 176
imperial phint; in the latter to a cubic decumetre.
Lituation, the name of votes to the Church situal thanks.

Liturgy, the name given to the Church ritual, though strictly applying only to the portion used in the cele-bration of the Eucharist. The present English liturgy dates from 1547-8, when it received the approval of Parliament.

Livre, an old French coin, the equivalent of the present franc. Not current since the 17th century.

Lisard, the name given to a diversified family or reptiles, of which there are about z,600 species. (See the different class names.)

Liama, a Seuth American ruminant animal nearly allied to the alpaca, and of the same structure as the camel, except for the hump. It is domesticated and utilised as a beast of burden, as well as for its wool, though the latter is not so long as that of the alpaca.

Loach, a fresh-water fish, a common habitant of British rivers and streams. It has several barbels around its mouth, and is of a darkish-green colour on the back, with darker stripes and spots.

Loadstone, an oxide of iron, is found chiefly in Sweden and Norway. Its scientific name is magnetite. It has the power of attracting pieces of iron and possesses polarity.

Loam, soil composed of clay and sand in such proportions as to keep the ground porous.

Lobatars are marine crustaccan animals existing in enonious numbers in the northern seas of Europe and America, and in fair proportion on some parts of

and America, and in fair proportion on some parts of the British coasts, especially, in the neighbourhood of the Channel Islands. A lobster would seem to be overburdened with legs, claws, and other appen-dages, having no fewer than 20 pairs altogether, but with a use for them all.

Local Government Board, a department insti-

authorities and safeguard the public health.

Local Option, a proposal which has several times been before Parliament, but has always been rejected, for giving a majority—usually placed at two-thirds—of the ratepayers of a parish power to probabit the sale of intoxicants in that parish. The principle is in force in some parts of the United States.

Locast. an insect of the grashopper family, but

Locust, an insect of the grasshopper family, but much more powerful. They are inhabitants of hot countries, and often make their appearance in untold milions, like clouds, devasiating all the vegetation that comes within their course. Some species exist in Britain, but they are small and not very trouble-some. The locust-tree (*teratonus sitiopua*) is sup-posed to have (umished food to St. John the Baptist in the wilderness, and its "beans" have accordingly been styled "St. John's Bread."

Log, a line used for reckoning the speed at which a ship is travelling. It was first used in the 16th century. The line is divided into spaces of 50 feet marked off by knots and measured by a half-munute sand glass, bearing the same proportion to an hour as 50 feet bear to a mile.

as 50 feet bear to a mile.

Logarithma, a system of calculation invented by

Baron Napier in 1614, and developed by Henry

Briggs a few years later. It may be briefly described

as "the Indexes of the ratio of numbers one to

another," and represents a great saving of time.

Logio, the science of reasoning, setting forth the

principles on which argument can be most effectively

be detected and response procedures deduced.

conducted and proper conclusions deduced. Ans-totle, Bacon, Locke, Whately, Sir William Hamilton, John Stuart Mill, and Herbert Spencer have all been expounders of logic; Earl Stanhope invented a logical machine in the latter part of the 18th

Logogram, a phonogram or sign, briefly representing a syllable, word, or phrase; logographic punting was introduced in 1783 by Henry Johnson and Mr. Walter of The Times.

Watter of Ine 1 1998.5.

Logwood, a familiar dye-weod, obtained from a tree abundant in the West Indies and some parts of South America. It is red in colour, and is used for producing a variety of shades, from red to black.

Lollanda were a body of Reformers who, under the leadership of Wyclif, were subjected to rule persecution in the reign of Richard II. Sir John Oldcastle was a prominent Lollard, and was burned at the stake.

Lombards, the name given to a community of Italian merchants who settled in England in the 13th century and first became prominent as money, lenders and later as bankers. Lombard Street derives its name from them.

Lombardy Poplar, the common name of the graceful Populus fastigiata.

London Clay, a peculiar formation which crops up in various parts of London, notably at Highgate, and is rich iff fossils of many kınds—birds, quadrupeds, reptiles, fruits, and fish, indicating a much warmer climate when they flourished than exists to-day.

Londonderry, Siege of, by James II's army, began on the 20th April, 169, and lasted until the 30th July. The garnson and inhabitants were driven to famine, but held on until the siege was raised, and James rettred with the loss of 0.000 men.

30th July. Ine garmson and inhabitants were driven to famine, but held on until the siege was raised, and James retired with the loss of 9,000 men. London Land Vallues. The price of land in London has increased by leaps and bounds of late years. In the suburbs in recent times land in Fitzjohn's Avenue, Hampstead, realised £9,000 an acre, the agricultural value of which would probably not exceed £90 an acre, the balance of £0,550 representing the incarned increment. The luglest prices for the fivehold of sites are in the centre of the City, in the neighbourhood of the Bank of England, a price at the rate of over £2,250,000 an acre being attained; it it is, £75 per square foot, or more than 105, per square foot, or more than 105, per square foot, or more than £1,50,000 per acre. In Bond Street £35 per square foot, or more than £1,50,000 per acre has been reached. London Museum, estab, at Kensington Palace in 1912 for the conservation of antoquites and other

rogarding museum, estab. at Kensington Falace ir 7972 for the conservation of antiquities and other objects relating to London. Transferred to btafford House (now Lancaster House), the lease of which was presented to the nation by Sir W. H. Lever. The museum was opened by the King in 1974.

Longicornia, a ramity of large humed beetles found only in warn countries, remarkable for their woodboring capacity when in the larval state.

Longitude, the distance of any place east or west of

Dornig capacity when in the larval state.

Longitude, the distance of any place east or west of
the first mendian, which in English maps passes
through Greenwich. In French maps the first
mendian passes through Paris, in German maps
Berlin, in American maps Washington.

Looshale, a nomadic East Indian tribe which still

Imgers around the tea plantations east of Calcutta and was guilty of many serious outrages until a punitive expedition was sent out in 1871.

Dunitive expectation was sent out in 1671.

Locd, a title of honour held by such as are peers of
the realm, and bestowed on persons who have
achieved distinction, or inherited by descent. It is
also borne as a courtesy title by the eldest sons of dukes, marquises, and earls, and by the younger sons of dukes and marquises.

Lords, House of comprises the Lords Spiritual and Temporal, that is, the Archbishops and Bishops, and all the adult Temporal peers from the rank of baron upwards, of Great Britain, as also the Scottish and

Irish representative peers

Loris, a genus of small Lemurs found only in Ceylon,

Madras, and Malabar, and comprising now but one surviving species.

Lory, a bundsome family of parrots with deep scarlet

Louy, a handsonic ramby of parrote win deep Sentin plumage, green wing covers, purple head, and yellow breast line. They belong to the Malay Archipelago and live mainly on fruit fuices.

Louis d'Or, a French gold coin of the value of 24 francs, first issued by Louis XIII in 1040, but supersceled by the Napaleon, or 2-franc puece.

Louis, a parasitic wingless insect of the Anoplum order, or use Peticulus, exceedingly problem, and

order, genus Pediculus, exceedingly prolific, and constituting a distressing pest to manuals and birds infested by them. Plant lice are apaides

infested by them. Plant lice are apandes

Louve, one of the old royal palaces
built in its present form partly by Francis I, and
added to by later monarchy, Louv XIV completing
the edifice. Napoleon I turned it into a museum and
enriched it with the plunder of many foreign art
galleres. Much injury was done to the building by
the Communists in 1871. The great extension to the
Louver building begun by Napoleon I was completed
under Napoleon III in 1827. "La Gioconda,"
Leonardo da Vinci's masterpiece, disappeared from
the Louve Gallery in Aug., 1912.
Love Birdis are small narrots, nainly of a delicate
green pluniage with pink, red, and black markings at
the neck, belonging to the genus Agapornis, and
indigenous to Melanesia and the Australian provinces.

Leyalty Loans were emergency loans raised by direct appeal to public patriotism. In 1206 such a loan was asked for by the British Government, and within 12 hours £18,000,000 was subscribed.

Lucifier Matches—that is, matches tipped with an explosive substance that bursts into fame on being struck—were first used about 1834. Many improvements have been made in matches since then, the most important of which was the invention of the safety match, striking on the box only.

Luddites, a secret association of working people formed in 1811, at a period of great distress, with the object of destroying the new textile machinery then being largely adopted, which they regarded as the cause of their troubles. Their first outbreak was at Nottingham, and was stated to have been started by an imbedile named Ned Lud. Afterwards, strious Luddite riots occurred in various parts of the country, especially in the West Ruding of Yorkshire, where many people were killed, mills were destroyed, and aumbers of rioters were tried and executed. Charlette Brontte in her novel, Shriety, makes effective lotte Bronte in her novel, Shirley, makes effective

some in ner novel, Shirtey, makes effective use of this period.

Ludlow Formation, a geological term designating the upper division of the Silurian group, which consists of sandstone, grit, limestone and shale, a deriving its name from the fact that Ludlow is built on these beds.

on trese begs.

Lugworm, a species of worm living on the seashores and burrowing in tunnels which it makes in
the sand. It is much used for hait by fishermen.

Lumpfish, a carmivorous sea-fish which attaches
itself to rocks and other firm sinistances, and lives
on small fish and marine worms. It is mainly an
inhabitant of northern seas, and has three species, one of which is found on our own coasts.

Lunar Caustic, or nitrate of silver, is obtained by

dissolving silver in diluted nitric acid

Lunar Month, the period in which the moon makes
its revolution around the earth—theut 20½ days.

Luparcalia, yearly festivals held in ancient Rome in

honour of Pan,

nonour or ran,
tapinus, a genus of papilionaceous plants, common
in the north temperate zone of both hemispheres
and so-called because the routs penetrate the soil
with wolfish eagerness and estimating effect.
Lupus, the constellation of the Wolf in the southern

heavens, at the east side of the Centrur. It contains no star of more than the third magnitude.

no star of more than the third magnitude. Lupus in pathology designates a spreading tuberculous inflammation of the skin, to the alles atton of which the "light caue" has latterly been directed Lurcher, a domestic dog formed by interbreeding between the greyhound, the sheep-dog, and the spaniel, and a slient pursuer of hares and rabbits. Lustad, a famous Portuguese epic poem by Camoens, celebrating the establishment of Portuguese sway in India; first published in 1521.

Lustrum, a sacrificial celebration occurring every five years in ancient Romu after the taking of the census. From this each period of five years was called a lustrum. called a lustrum.

Lute, an ancient stringed instrument, introduced into Europe in the 6th century, and at one time popular, but now superseded by more elaborate instruments.

but now superseded by more elaborate instruments.
Luzonite, a massive mineral, black, brittle, and
metallic of lustre, largely composed of copper and
sulphur, and closely related to enargite; found near
Luzon in the Philippines.

Lydian Stone, a dark coloured rock composed of
quartz mixed with oxide of iron and clay, and often
used as a touchstone for testing gold alloys.
Lye, the chemical term for a solution of an all zil, used
in making coarsesoaps and for various other purposes.
Lynch Law is the dealing out of summary punishment on offenders by private individuals without
appeal to the law. It gets its name from one Charles
Lynch, a Visginian planter, who in the latter part of
the rith century was accustomed to take into his own
hands the punishment of offenders. Instances of
lynch-law are still frequent in the United States, and
generally result in the carrying out of a rough and generally result in the carrying out of a rough and ready death sentence, negroes being mostly the

Lynx, a carnivorous mammal of sturdy build, with tufted ears and spotted fur, inhabiting many parts of the world, including Northern and Central Europe. It commits serious ravages among sheep and goats, and is very fierce.

Lyon King of Arms, the President of the Scottish Lyon Court, and head of the heraldic organisation

for Scotland.

Torscommen.

Lyra, the constellation of the Harp, situated between Hercules and Cygnus, comprising twenty visible stars, the principal of which is Vegs, one of the most brillant of all the stars

Lyre, an upright stringed instrument held in the hand, and famous in ancient Greece and Rome.

and ramous in ancient creece and Rome.

Lyre-Bird, a remarkable genus of Australian birds, the males of which possess a beautiful lyre-shaped tail. The bird is not more than 15 inches long, but its tail, which it carries erect, is 29 inches in length.

Lytta, a genus of beetles, found in Southern Europe and Asia, of the sub-tribe Trachelia; the most familiar example is L. vesicatoria commonly called the "Blister-dy."

Macaco, Buffon's name for the Ring-tailed, or catlike lemur, indigenous to Madagascar

Macadamising, the system of road-making invented by John Macadam in 1810. The road bed is laid with hard broken stones, of a nearly uniform size, which by the weight of the traffic aione soon assume finnness. Nearly all the main courtry roads are macadamised.

are macadamises.

Macaque Monkey, a long-tailed, large-shouldered, olive-brown, black-spotted genus of the Catarhine monkey, common in the Malay Archipelago.

Macaroni, a name applied to a class of society fops whose extravagant dress and manners were much ridiculed in the 18th century.

Macabae, a genus of large parrots with brilliant scarlet and sky-blue plumage, with interninglings of green. Native to South America and Cuba.

Macabaes, a patriotic Jewish family whose achievements in early history were very notable. The revolt of the Maccabeans in the 2nd century B.C., in which Judas captured Jerusal-in and purified the Temple, is the most famous exploit connected with this historic name

Maoe, an ensign of authority borne before officers of state and other dignitaries. The more particular macrs of the present day are those of the Lord Chancellor, the Speaker of the House of Commons. Chancellor, the Speaker of the House of Commons, the Lord Mayor of London, and other mayors. In ancient times there was a cavalry weapon consisting of a spike-club which was called a mace. The mace is still retained amongst the Turkish irregular cavalry. The mace-bearer is the functionary who carries on ceremonious occasions the symbol of authority before judges and civic or state officials.

Macedonians, a sect formed by Macedonius, bishop of Constantinople, in the 4th century, who denied the existence of the Holy Ghost. The Papal Council expelled the bishop and his followers from the Church in 360.

from the Church in 360.

Machina Organa, defined in the roth book of

Rochins Organa, defined in the roth book of Vitruvius as "contrivances for the concentration and application of force," and known by the names of instruments, engines, and machines.

Rachine Guna are modern weapons of war of a quick-firing and highly destructive capacity. They are of two classes—those firing small-arm ammunition, and those firing slot and shell. Some of these guns have a firing power of over 1,000 shots a minute. The best-known guns of this class are the Maxim, the Gatling, the Gardner, the Hotchkiss, the Norden feldt, the Raupp, and the Ehrhardt.

Mackeral, a familiar sea fish existing in large numbers in the northern waters of both hemispheres. In May and June immense shoals are to be found round the British coasts. It is a popular food fish, with beautiful markings.

Ractra, a genus of molluscs of extensive distribution, found in considerable numbers in British

waters, especially in Scotland. The shell valves are of equal size and triangular shape.

Maddar, until a few years ago one of the most important of dye-stuffs, largely used in producing Turkey-red dye, but now superseded by artificially prepared alizarin. Natural madder is the root of the Rubia tisuctorum.

Mad David a mannet hald be a superseded.

Rubia textcorum.

Mad Parliament, held in 1258 at Oxford when the barons compelled Henry III to appoint a council pledged to carry out certain reforms.

Madrepore, a white coral-like substance consisting of carbonate of lime, formed by the gradual growth of polyp deposits, and abounding in tropical

Madrier, a term in military engineering denoting beam laid in a ditch to support a wall, or in a mine to hold up the sides or roof; also an armoured plank affording protection against hostile fire, or fitted to receive the mouth of a petard in attacks upon

waragas, a style of uniccompanied musical com-osition for three or more voices, originally introduced in the Netherlands, and developed in Italy, in the right century. Many old English composers achieved great success as madrical writers, and numerous Hadright Societies are still in existence. udrigal, a style of unaccompanied musical com-

Madwort, a common name of the botanical genus

maelstrom, a great whirlpool. The most famous is hat off the coast of Norway, between the slands of Moskenes and Mosken, of the Loioten group, the power of which has been much exaggerated, it being only dangerous at certain seasons.

"aearricht Beds, a dense calcarcous formation in

the upper division of the "retaceous group of rocks existing in the Mastralit region of Holland; containing fossils furnishing the connecting link between

ine Secondary and I certary systems.

**affa, a secret Sician senety fornied for purposes of vergeance, pr ate and public, prominent about 1860, and responsible for many craites and applications and appropriate of the secondary craits.

V. H. Perkin, and named " the great battle of hat year between the French and Austrians.

maggot, the larva of an insect, a term usually ap-plied to that of the common fly, which feeds upon

putrid matters, animal and vegetable.

magi, priests of the Persian fire-worshippers, who exercised great influence in early times in the East. Their sacred fires blazed in the open air, and Last. Hell sacret area mazed in the open air, and around them they performed their mystic rites. Zomaster, their great reformer, flourished about 550 B.C. In the following century their religion was superseded by Maltomedamsin, and the only representatives of the old worship now left are the Parsees of India.

of India.

Magio, a term applied to the pretended art of influencing supernatural thuncs. Such an art was
seriously believed in by the people of mediaval
times, and still obtains among certain uncluitsed
races. Professors of magic in olden times worked
their wonders according to certain elaborate systems, their wonders according to certain elaborate systems, and, by the air of injectry with which they surrounded themselves and their operations, contrived to impress the crediblous. Magic took various forms—the cure of disease, predictions, and the granification of nersonal desires. Thus, there was black magic, which communed with evil spirits; white magic, dealing with good spirits; and natural magic, the science of the occult; while astrology and alchemy were the advanced outcome of these superstitions. In more recent times there have been many professors of magical powers, but since the days of Cagliotto these things have been classed with charlatanism and these things have been classed with charlatanism and legerdenism, and even the palmist finds himself under the ban of the law to-day.

under the ban of the law to-day.

"Magic Lambarn, an apparatus for throwing pictures or images on a screen, invented by Kircher in the syst century, and consisting of a lantem, behind the light of which is a reflector, while in front is a tube carrying a condensing lens, this being supplemented by a double convex lens which enlarges the object to be shown. Many improvements in magic lanterns have been made in recent years, by which dissolving

views can be shown and photographs reproduced. The kit smatograph (otherwise cinematograph of bloscope) is perhaps the most marvellous use to which the magic lantern has been put.

Maglius, a gastropod which has a spiral shell when young, but gradually develops from that a shelly tube of bent form with an opening at the bottom older portions of the shell cavity becoming filled with a coral growth as the tube expands. Found on the coasts of the Red Sea, Java, and Maunrius.

Maglistrate, a word describing a high executive officer, and of wide application. The first magistrate of a kingdom is the king, of a republic the president. In the more general meaning, a magistrate is a justice of the peace for a county or borough. Stipendiary magnistrates exist in the various metropolitan districts and in the chief boroughs who are barrisers of and in the chief boroughs who are berristers of standing and devote their entire attention to the arduous duties of their position.

Magna Charta was sealed by King John at Runny mede on the 15th June, 1215, in obedience to the insistent demands of the barons, and has since been insistent demands of the barons, and has since been confirmed over 20 times by later monarchs. Its main provisions were that no free man should be imprisoned or proceeded against except by the Judgment of his peers in accordance with the law of the land; that there should be one system of weight, and measures throughout the kingdom; that foreign merchants should have freedom of commerce; that no scutage or and should be imposed except by consent of the council; and that ancient liberties generally should be preserved. The original Charter is lost, but a manuscript copy exists at Lincoln.

Ragna Graecia were independent States established by Greek colonists in South Italy between 1004 and 774 B.C. They included Syracuse, Leontinum, and Thorium. They allied themselves with Hamnibal when he invaded Italy, 216 B.C., and his defeat involved their collapse as free States.

***Ragnasia** came into use as a medicine early in the

Magnesia came into use as a medicine early in the 18th century. It is the oxide of the metal magnesium,

and is in the form of a white powder.

Magnesium, a metallic element first found at
Magnesia in Asia Minor, and as a constituent of Magnesia in Asia Minor, and as a constituent of colonitie and other mineral substances has a very wide distribution. It is obtained by heating, and gives forth a brilliant white flame when heated to the proper point. The magnesium light is zo rich in chemical rays that it is frequently used in photographing objects by night, or in caverns or other dark places where photography would otherwise be impracticable. Magnesium lamps have been utilised for lightling up tunnels during construction. for lighting up tunnels during construction.

Magnetism, the quality of attraction possessed by

fagnetism, the quality or attraction possessed by the loadstone or magnet-stone, was known to the ancient Greeks, Chinese, and Arabians. Roger Bacon knew of its attraction to the north, and it was this property that led to the invention of the magnetic

this property that led to the invention of the magnetic needle and of the mariners' compass,

Magnets are usually magnetised bars of steel. One of a single bar is called a simple magnet; several bars fastened together furnish a compound magnet. Electro magnets are wonderfully powerful, some being capable of sustaining weights of over a ton.

Magnificat, the hymn of the Virgin Mary, given in Luke i. 46, beginning in the Vulgate with the words "Magnificat anima mea Donnumi" (My soul doth magnity the Lord), 'and used in the services of all Christian churches.

Christian churches.

Christian churches.

Magnolia, the type of the botanical tribe Magnoliae, the type of the botanical tribe Magnoliae, comprising many beautiful trees and shrubs with large and fragrant flowers, and chiefly native to North America and Asia.

Magple, a well-known bird of the crow family, of glossy black and white plumage, famed for its mischlevous propensities.

Magyares, the dominant Hungarian race, of the Mongolian stock, settled in Hungary from the roth century.

Mahdi, an Arab leader of great influence, invested with powers akin to those of a Messiah in the Mahoulean mind. Several individuals, claiming to be the Mahdi, have given trouble in the Soudan, but British military organisation has proved too much for them in the end.

Mahogany, a fine hard wood susceptible of a very high polish, and distinguished for the beauty of its colour and markings. The tree which produces this wood (the Santenia mahogani) is a native of the West Indies and tropical America. Mahogany is said to have been first brought to England by

Baldit to have been are torough to England by Raleigh in 1995.

Eahomedanism, the religion set forth by Mahomet and embodied in the Koran (9,v.). Briefly, the doctrine includes the unity of God, Briefly, the doctrine includes the unity of God, the immortality of the soul, predestination, a last judgment, and a sensual paradise. The faithful are enjoined to practise circumcision, prayer, alms and fasting, great latitude being given, however, as to the marriage hond, polygamy and concubinage receiving sanction. There are over 150,000,000 Mahomedans in Europe, Asia and Africa.

Eshrattas, a warlike people strongly opposed to the East India Company in the 18th and early part of

- the East India Company in the 18th and early part of the 19th centuries, but finally subdued in 18th.

 Laids of Honour.—Queen Victoria had eight Maids of Honour.—Queen Victoria had eight Maids of Honour, who succeeded each other in pairs with unfailing regularity. Their duties were to read the news, apers aloud to the Queen, drive out of an afternoon, and play to her in the evenings. The salary attached to the office was £300 a year, all of which was required for their tollettes, as Her Majesty, although she encouraged simplicity of attire in her ladies, had a currous objection to their appearing often in the same dress. Each received a dowry of £1.00 on her marringe. The departing Maid also carried away her badge of office, a brooch consisting of a miniature of her Koyal mistrees set in diamonds. During the saxty-three years of Queen diamonds. During the sixty-three years of Queen Victoria's reign only thirty-nine Maids of Honour ware appointed. Of these, nineteen married while in office. Queen Alexandra was much less ex torus than Queen Victoria was in regard to the attendance
- of Maids of Honour. Faigre, a sea fish of the Sciennide genus, mostly inhabiting the Mediterranean, though occasionally met with in British waters. It is a large fish, and makes a buzzing sound as it swims.

met with in British waters. It is a large fish, and makes a buzzing sound as it swims.

Mail-Goaches, which are usually regarded as things of a very distant past, did not come into existence till 1784, when Mr. John Pahner, of Bath, put the first mail-coach on the road between Bath and Bristol. They were soon afterwards adopted in carrying the mails, until superseded, in great part, by railways.

Maintenanoe, a legal tenn signifying the interference in a suit by some one having no direct interest in it, and constituting a punishable offence.

Maize, an important cercal largely grown in Southeastern Europe and Amenca, commonly known as Indian corn in the latter country.

Majolica, a kind of pottery carrying a highly coloured glaze or enamel, supposed to have been introduced into Europe by the Moors from Majorca in the 15th century, and brought to a high degree of artistic beauty in those days. Raplanel and other great artists having made designs for the water. After the 15th century majolica production practically ceased, though in recent times some clever imitations of the old ware bave been manufactured.

Major, in the British Army, ranks next below a Lloutemant-Colonel. A Major-General ranks beteath

Major, in the British Army, ranks next below a Lieutenant-Colonel. A Major-General ranks beneath a Lieutenant-General.

a Lieutenant-General.

Malachite, a green variety of copper ore, abounding in Australia, Russia, and South America, and, in its finer examples, can be worked up as a gem.

Malays, a race of people with oblique eyes, high cheek boues, and brown skin, whose native countries are the Malay Archipelayo, Polynosia, the Philippines, and Madagascar

Malic Acid, a substance obtained from unripe fruit, and present in the largest quantities in rhubarb and mountain-ash berries; it is used with bases for producing the salts called malacts.

Malmalacon derives its name from having been

Malmaison derives its name from having been inhabited in the 11th century by the Norman brigand Odon, and afterwards, according to the tradition, by evil spirits, exorcised by the monks of St. Denis.

Lattle was known of it, however, until its purchase, for 160,000 fr., by the Empress Josephine, who died there in 1814 as the result of a chill caught while showing the Russian Emperor round the grounds. After the Second Restoration, Prince Eugene sold Malmaison, removing its gallery of pictures to Munich. In later years it was for some time the residence of ex-Queen Christian of Spain. It is now converted into a museum.

now converted into a museum.

Malmaey, a favourite wino originally made at the Greek port of Malvasia, but now made chiefly in Madeira, Sardinia, and Sicily.

Malt is barley grain which has gone through a steeping and preparing process to render it suitable for brewing purposes. It was for a couple of centuries subjected to a fluctuating duty, producing in the a time of the area. The law was abuilted. in 1863 a sum of £6,273.727. The tax was abolished

Malta. Order of, was founded in the time of the Crusades, and the chief function of its members was Crusades, and the chief function of its members was to protect the Christians in the East against the Infidels. Their seat was originally at Jerusalem, whence they retired successively to Saint Jean D'Acre, to Rhodes, and to Cyprus, pursued everywhere by the rising tide of Mahonnodanism. Finally they settled at Malta, which the Emperor, King Charles V, ceded to them; and there they remained for three centuries until Napoleon, on his way to Egypt, dispersed them. The Emperor Paul of Russia then protected them; but the office of Grand Master was in abevance until 1879. The Austrian Master was in aboyance until 190. The Austrian Baron Hardegg succeeded to that office in 1905. Maltese Dog, one of the smallest of dogs, with long, silky white hair and pendulous ears; nuch ap-

rectated as a drawing-room pet.

presented as a drawing-room pet.

Mann stukes were originally—in the 13th century—a
bodyguard of Turkish and Circassian skews in the
service of the Sultan of Egypt, and attained such
influence that in 1ego they were strong enough to
appoint one of their own body to the throne of
Egypt, after that a succession of Manieluke
Silians reigned down to 15t7. Then the Turks
annexed Egypt, and the Manielukes were taken into
the service of the Beys. They again came to the
front after Napoleon's conquest of Egypt, and for a
time resumed governmental sway; but in 1811 they
were decoyed into the citatel of Cairo and
massacred by order of Mehemet Ali,
Mannmalla, a zoological term covering all that
portion of the annual kingdom the females of which
are provided with nannary glands, for sucking

are provided with mammary glands for suckling their young. A further characteristic is the double arriculation of the skull with the vertebral column.

Mammoth, an extinct species of elephant of grantic size. In 1799 an entire skeleton of the animal was found in Siberia in a block of ice. It was anciently an inhabitant of Britan and other parts of Europe as well as of Asia and America.

parts of Europe as well as of Asia and America.

**Mammoth Cave of Kentucky, about 10 miles long, is one of a series of spacious caverns formed in the limestone rock formation, and is from 40 to 300 feet wide and at one point 300 feet high. Stalactites and stalaguntes abound. See "Caves."

**Mammoth Tree of California, the giant of the amount sufficient works of California.

famous coniferous grove at Calaveras, 327 feet high by 90 feet in circumference, and believed to be from

,000 to 4,000 years old.

Manatee, an aquatic mammal of the Manatus genus, averaging when full grown from to to 12 feet in length, with shovel-shaped tail, and four limbs and inals which almost give the appearance of arms and liands. In spite of their ungainly aspect, these creatures are believed to have given rise to the idea of meritalds in the olden time.

Manchus, the original nonadic race inhabiting
Manchus; of the Mongolian stock, and chiefly
engaged in cattle rearing. The ruling family of
China are of Manchurian descent.

Mandamus, a writ of command from a superior to an inferior court, enjoining the performance of a particular act.

Mandarin, the name given to a powerful Chinese official, civil or military, whose rank is shown by the wearing of a button. In Chinese the name is Kwan.

mandible, the inferior maxilla (in the lower jaw) in human anatomy; the upper and lower rostra of the beak in birds; and the upper and outer pair of jaws in insects.

Mandilion, a form of upper garment worn by soldiers and servants in the 17th century, confined

mostly to France.

mandoline, an Italian fretted guitar, so called from its almond conformation.

Manes, the ancient Roman name for the shades of

the dead, who were regarded as tutelary divinities, and worshipped.

and worshipped.

Manganesa, formerly included among the ores of iron. Its distinctive character was established in the 18th century. It is hard and britle, and oxidises rapidly when exposed to the air. It is found in combination in many minerals. As a commercial product, in its numerous oxides, it is of great value.

Manichesans, a sect founded by the philosopher Manes in Persia about coi A.D., and spreading into Egypti and Arabia. Manes called himself "the Envoy of Christ," rejecting the Old Testament, and propounding a system of his own based partly on Christianity and partly on the dogmas of the ancient fire-worshippers. fire-worshippers

Manikin, a dwarf or pigmy; an artificial figure employed in anatomical demonstrations, made some-

times of papier-maché.

Tanna, a tree of the ash genus growing in the South of Europe and in the East, and exuding a sweet substance which is gathered by n thi es, cleaned, boiled, and caten.

Manors, which were established in Anglo-Saxon times, were estates originally granted as rewards for kinglit service, and included the privilege of a special court with jurisdiction, criminal and civil, within the il territory. In recent times the ancient privileges of the maiornal system have almost jussed

privileges of the manorial system have amost present out of existence. Such copyloid property as 5 yet inemfranchised is generally set forth as being held by the tenant "at the will of the lord according to the custom of the manor."

Manafield College, Oxford, for the education of students for the Nonconformys, ministry, was estab-

instead in 1836, and opened in 1839
Mansion House, the official residence of the Lord
Mayor of London, stands on the site of the ancient Stocks market, and was erected in 1739 53 from the de agns of George Dance.

Manisaughter is the unlawful killing of another without malice or premeditation, and is classed as voluntary, as when done under a sudden procession or involuntary, when it is the result of some unlawful act. Clipable homacute also comes within the term of manslanghter

Manures are natural or chemical substances put upon land in order to aid cultivation. Natural manures comprise what is generally known as farming the control of the contro yard manure, sewage, leave, etc., and chemical manares include hones, nitrate of sodium, guano, soor, limes, and other kindred matters

Manx, the original Celtic inhabitants of the Isle of

maoris, one of the native races of New Zealand, but not in the strict sense of the word Aborigmes, having not in the stret sense of the word Aboriganus, having ingrated to the island originally from one of the Polynesian group. They number about 50,000, and are adapting themselves with considerable success to the conditions of civilised life. Until 1870 they were frequently in arms against the Gow runnent, but since then have accepted their position with loyalty.

then have accepted their position with loyalty.

Maple, a tree that is native to the northern hemisphere, and has at least fifty species. The sycamore
and plane tree are the best known British varieties.
The sugar maple abounds in Canada and the eastern
parts of the United States. The maple-leaf is the
Canadam national emblem.

Maraboute, a class of Berbers adopting a religious
ide, and regarded with much reveredce by the
people of North Africa.

Marabouten, a known dishilled from chernes, and

maraschino, a inqueur disolled from chernes, and mainly produced in Dalmatia and Coraca.

Marble is limestone in its hardest and most crystalline form There are many varieties—33 were used in the building of the Paris Overa House—but white is the purest and rarest. From about 568 B.C., white marble was used by the Grecian sculptors for their statues. Rome was rich in marble buildings and monuments, and Palmyra was mainly built of white marble. Devoushire and Derbyshire yield the best Euglish marbles, and several localities in Treland furnish porticular kinds. Verm ut. Massachusette, and Tennessee are the chief marble-producing States of America. The American marbles are mostly hold: of America. The American marbles are mostly light grey. The Marble Arch, at the northern entrance to Hyde l'ark, was originally built for the front of Buckingh im Palace.

March, the third month of the year, and the first of the old Roman calendar. It was named after the god Mars, and was the Hlyd (storm) monath of the

Anglo-Saxons.

Mardi Gras, the last day of the Carnival in France, Shrove Tuesday,

Margarine, a butter sub-titute made from beef suct, vegetable one, butter and milk.

Mariner's Compass. (See Magnetism.)
Marines, soldiers for sea service, were established in
1664, when 1,200 men were enlisted as the first marine regiment. By 1741 there were 10 marine regiments, of 1,000 men each. Over 30,000 British marines were engaged in the French wars of the early part of the toth century. The present strength of the Royal Marmes is about 20,000

Mariolatry, a term applied by non-Catholics to the honour or worship (hyperdaha) of the Virgin Mary, begun in the 4th century, and still a prominent part of Roman Catholic religious observances.

marionettes are puppers moved by strings and made to go through a faut stic performance. They originated in the Fantacini of the 15th century, which had such vogue in Italy, and are still popular, being adopted in Germ my and Fin-hand later. The familiar Princh and Fudy is a native version of the traben Punch and Fudy is a native version of the traben Punch and Italian l'unchinello.

Mark, a modern silver German com, about equal in value to an Unglish shilling, and in tormer times the name of a variety of come, including the Scotch com of Charles II's time, worth 138, 4d.

Mari, a rock composed parity of clay and parity of carbonate of lime. The apper division of the kauper formation is known as the Red Mari series. Mari is used for foundry moulds, cements, and brick-making.

u.en for roundly photols, cements, and thick-making.

Marlinspiles, a small iron instrument used in roje
spleining for .-parating the strands

Marmoset, a very small kind of monkey confined to
the New World. Very squiriel-like in appearance,
with long bushy time and thick woolly fur, they are
pretty little animals and the smallest of all monkeys.

Maronites, a sect tounded by a monk named Join
Maronite in the sincerum in Syria and sull existing in

Maro in the 7th century, in Syria, and still existing in the Lebanon region. They dider from the Roman Catholics (to whose church they are allied and report themselves) in certain points of doctrine concerning Christ. In 1860 they suffered severe persecution at the hands of the Druses, some 1,300 being massacred and 100,000 driven from their homes.

Maroons, the name applied to a body of fugitive saves which in the istance and part of a boar of the saves which in the istance and contury took up arms, the whites of Jamaca. For eight years they kept up a troublesone warfare, but surrendered in 17a, being accounted to retain their free settlements. There are

permitted to retain their free settlements. dso maroons in Dutch Guiana.

Mar-Prelate Tracts, seditions pamphlets written with great maliciousness about 18%, and intended to discredit the episcopacy, caused a great sensation in their time, and led to the execution of their supposed manilor, John Penry.

Marquetry, a kind of inlaying in which thin layers of coloured woods are wrought into a design, and manily used in ornamental floors.

mannly used in ornamental floors.

Manquis, the title next an precedence below that of a duke. The first Engish marquis was Robert de Vere, Earl of Oxford, who had the honour conferred upon limit by Richard II in 138?

Mans, the planet coming next after the earth in the order of distance from the sun, Mercury being first and Venus second. It is the planet that has been most closely studied bocause of its comparative nearness. It has two satelites.

MarseiHaise, the French national hymn, written and composed by Kouget de L'Isle, a French engineer officer, who was inspired to write it in 6792 to encourage the Strasburg conscripts. It immediately became popular, and received its name from the fact that it was sung by the Marseillaise troops while

marching into Pars.

Marahalsan Prison, a once well-known house of detention in Southwark. It stood near St. George's Church, and was originally a prison for royal servants. convicted of offences, but from 1849 was for many years a debtors' prison. The description of it in Dickens's Little Dorrit is now its chief claim to

remembrance

rememorance.

Barah Tortolse, an amphibious animal of the order Chelonia, spread over many countries and inhabiting pounds and small nevers. There are 42 species, and they are all carnivorous.

Baraton Moor, near York, was the scene of the famous battle between Prince Rupert and his forces makes? Communication of the carnivorous and the communication of the communication of the carnivorous that and reference to the card of the carnivorous that and reference to the card of the carnivorous that and reference to the card of the carnivorous that and reference to the card of the carnivorous that are a second carnivorous carnivo

against Cronwell and his troops on July and, 1645, resulting in a complete victory for Cronwell.

Barsuplaila, animals—manily Australassam—having a marsuplum or puch; the young are born of comparatively small size and imperfectly developed, but

paratively small size and imperiectly developed, but are transferred to the maternal pouch, which is usually furnished with a long lacteal nipple, **Martallo Towers**, circular forts erected on the coasts of England early in the 19th century as defences against foreign attacks, but now abandoned as insufficient in the changed conditions of modern to the coast of the desired part of the press is uncertain. warfare. The derivation of the name is uncertain.

Marten, a carnivorous animal of the weasel family, a variety of which was once common in Britain, but now seldom met with. It feeds on birds and small mammals, and is clothed with a handsome dark brown fur which is much valued.

time which is much vitted in a time of outbreak or rebellion, is often confounded with military law. The Duke of Wellington said that "marual law means no law at all, but the will of the general till the ordinary law can be either estab-lished or restored "Sir David Dundas described it as "the substitute for a civil jurisdiction for the moment during which the functions of the latter are paralysed." The district in which martial law is prolysed." The district in which martial law is pro-claimed comes entirely under the control of the military power both in civil and criminal matters.

Martin, a well-known bird-visitor to Britain. It belongs to the swallow family, and the two species that spend their summers here are the house-martin, which makes its nest of mud under the eaves of houses, and the sand-martin, which builds in sandy

henks

fartingale, a long strap or thong of leather, one end of which is fastened to the girth of a horse, between the fore legs, and the other to the bit, or to a thin

mouthpiece of its own

the fore legs, and the other to the bit, or to a thin mouthpleece of its own.

Martinmas, or St Martin's Day, falls on November 17th, and is one of the Scottish quarter days. St. Martin was a popular Saint with our ancestors, and Martinmas was a busy time for the Medieval housewife. It was the date when "Martiemas Beef" was dried in the chimney, and enough bacon and mutton cured to last until the spring, because, owng to the scarcity of winter fodder, fresh meat could seldom be obtained. This diet of dried meat without vegetables caused scurvy. King's cril, leprosy, and other unpleavant maladies. Originally the goose belonged to Martinmas, not to Michaelmas, the legend being that when Martin was elected Bishop of Tours he hid himself, but was betrayed by the cacking of geese. He died in the 4th Santury.

Martys, in the Christian Church have been many. Stephen was the first Christian martyr in 30. The first English martyr was St. Alban, 286, and in Tudor times very many eminent churchmen went to the stake at West Smithfield, in London, and at Oxford, where now exists the "Martyrs' Memorial." There is also a Martyrs' Memorial: Church in St. John St. Clerkenwell, not far away from the scene of the Smithfield fires.

Mason and Dixon's Line is the boundary line

fason and Dixon's Line is the boundary line separating the old Slave States of America from the

Free State of Pennsylvania. It was drawn by two English surveyors, Charles Mason and Jeremiah Dison, between 1763 and 1767.

**ExquerEndes are balls or dances at which those who take part appear masked or in character. We were in vogue in the 14th century, and attained their helpht during the reign of Charles II. In 1734 they were abolished, but not for long, being renewed towards the end of the century at the various public gardens, with increased show, becoming again very iashionable. They have had a more continued popularity in France and Italy. Fancy dress balls have in recent years been given at the present Royal Opera, Covent Garden. The former building on this site was burned down after a masked ball given on March 5, 1856. March 5, 1856.

Masques were light dramatic compositions set to music and performed on special occasions. One of the best known examples is Milton's "Comus,"

which was given at Ludlow Castle in 1634.

Mass, the portion of service in the Roman Church consisting of the consecration and elevation of the Host. It is high or low, i.e., performed with full clioral service, or merely by the relearnsal of prayer without singing. Mass was first celebrated in Latin in the 4th century, and was introduced into England

in the 7th century.

Massorah, a collection of criticisms on the Hebrew text of the Scriptures, and rules for its correct

interpretation.

interpretation.

Mast, a tall, round piece of timber, steel or iron, elevated vertucally from the keel of a shin, and to which are attached the various parts const tuting the rigging. The lower part of a mast, however, in the case of the larger ships, is only called the mast, the next higher section being the top-mast, while above that come the top-gallant-mast and the royal mast. There are also fore-masts, mizzen masts, and trysul or spanker-masts, and trysul or spanker-masts, and igger-masts.

Master of the Ravels, was an important court

Master of the Revels, was an important court officer in ancient times, for upon him devolved the arrangement of Court festivities. The last man to fill the office in England was Solomon Dayrolle.

Master of the Rolls, one of the English judges, formerly a judge of chancery, but since 1881 a judge of the Court of Appeal only. In addition to his judgeship he is the nominal custodian of the rolls or records preserved in the Record Office.

Mastic, a resmous substance obtained principally from the bark of a tree which flourishes in the Greek Archipelago. Pistura lentiscus, and is mainly used in

the manufacture of varnish.

Mastiff, a domestic dog said to be an original British breed. It is a large massive animal with

pendulous ears, and makes a capital watch dog.

mastodon, an extinct order of quadruped closely resembling the elephant in structure, but much larger. Their remains have been found mostly in larger.

Matches. (See Lucifer Matches.)

Materialism, the doctrine that man's soul is not a atterialism, the doctrine that man's soul is not appiritual substance, but results from the organisation of matter in the body. To the materialist everything that exists is either matter or energy.

**Materia Medica treats upon the different substances used in the practice of medicine, giving details of their constituents and effect.

Eathernatics is the science of computation and measurement, and is defined as "pure" when treating of quantity in the abstract, and "mixed" when dealing with material bodies and facts.

dealing with material bodies and facts.

Matins, an early morning church service. The
service includes, in the Roman communion, the
Lord's Prayer, the Angelic Salutation, the Creed,
and certain Psalms. The name was also given to the
early morning massacres (a) of St. Bartholomew,
August 25th, 1372. called the "French Matins," and
(b) the massacre of Prince Demetrius and his Polish
adherents, May 27th, 1606, the "Matins of Moscow."

Matriarchate, an ancient theory that the mother
was the source of authority and not the father, and
that in the "golden age" women exercised supreme
control.

control.

Maundy Thursday, the day before Good Friday

was, in olden times, a day of almsgiving, upon which

was, in olden times, a day of almsgiving, upon which the sovereigns of England, through their almoners, gave money, food, and clothing to as many poor persons as the kings were years old. The custom is still observed with some ceremony.

Mansoleuma, a special place of sepulture, generally for the reception of the remains of members of a royal or other family of distinction. The name is derived from the tomb of King Mausolus at Halicarnassus, erected about 350 B.C., and forming one of the seven wonders of the world. The royal mausoleum at Frogmore was founded by Queen Victoria, and bere her late Majesty, Prince Albert, and others of the present royal house are buried.

Manwa, a colouring matter produced from lichens by Dr. Stenhouse in 1848, but in 1856 obtained from anilline by Perkins, and forming the first of the aniline dyes to be prepared on a large scale. The term mauve, however, was used to designate a purple shade of colour in the 18th century in France.

May the fifth month of the year, but the third of the ancient Roman calendar. Supposed to be named after Mais the Morter of Mercury, to whom sacrifices were offered on the first of this month. In England in former days May Day was made the occasion of many festivities, including the crowning of the May Queen, dancing round the Maypole, etc.

May Flower, the name of the ship which in 1827 conveyed the Pilgrinn Fathers, soo in number, from England to America.

conveyed the Pilgrim Fathers, xor in number, from England to America.

Maymooth Gollege, near Dublin, was founded by Parliament in 1995, and possesses a large permanent endowment. It accommodates 500 students, who are trained for the Roman Catholic presthood.

Mayora were appointed by Henry II. The first Mayor of London was Henry Fitz-Alwyn, who was appointed in 1789 and held the office for 24 years. In those days the Mayors were chosen for life. In recent times, however, the Mayor is the Chief Officer of a Municipal Council, and is elected annually either from the members of the Council or from outside. of a Municipal Council, and is elected annually either from the members of the Council or from outside. The chief Magistrates of London and York have long been dignified by the title of Lord Mayor, a distinction which has of late years been extended to several other great English cities including Birmingham, Sheffield, Leeds, Bradford, Bristol, Cardiff, Liverpool, Manchester, Norwich, and Newesstle-upon-Tyne. In Scotland the chief magistrates are Provost Mayors of the Palage, were functionaries of great influence under the later Merovingian kings; indeed, it ye exercised so much power that they may be said to have ruled while the kings themselves were mere puppets.

may be said to have ruled while the kings themselves were mere puppets.

**Exarine Bible, an edition of the Latin Vulgate discovered in the library of Cardinal Mazarin; from which Gutenberg between 1450 and 1453 printed the first book for which cut metal types were used.

**Exal Atlantage Pertaining to the religion of the ancient Persians, another name for Zoroastriansm.

**Persians, another name for Zoroastriansm.

**Pers Shaftesbury. Evidence of the fictitious nature of Shaftesbury. Evidence of the fictitious nature of the plot was subsequently discovered in a meal-tub belonging to a woman with whom he had lwed, and he was publicly whipped and put in the pillory. A man named Francis struck him a blow which caused his death, for which the assailant was hanged.

**Eaal-Worm is the larva of a beetle—the Tenetric molitor—and is found in com mills, granaries and bakeries, where it does considerable damage.

**Esauwaments of Celeatial Bodles.—The accurate measurement of the distances and sizes of all the heavenly bodies deneated on the measurement.

accurate measurement of the distances and sizes of all the heavenly bodies depends on the measurement of the sun's distance from the earth, and observations on certain of the minor planes agond the surest means yet obtained for calculating this unit. Eros, a minor planet discovered in 1896, under certain cou-ditions is nearer the earth than any other heavenly body, the moon excepted; and at its opposition in 1900, observations were made to ascertain its parallax at forty observatories all over the world. Since then the work of measuring the many obstographs taken the work of measuring the many photographs taken

and reducing and comparing the results of the observations have occupied the astronomers con-cerned and the Paris Observatory has issued a bulky volume of 400 pages giving some of the results. When all are published, some devoted mathematical will have to deduce from them the final result. The results so far are almost in complete accordance with the present accepted mean distance of the sun, 900,000 miles.

mechanics, the general name for the science which includes Kinematics and Dynamics, and deals with

Mechanics, the general name for the science which includes Kinematics and Dynamucs, and deals with force and its influence upon matter.

Mechanics' Institutes for providing education, libraries, reading rooms, lectures, etc., for the working classes were founded by Dr. Birkbeck in London in 1823, the Birkbeck Institute still remaining togonmementate the foundation. Similar institutions were formed in all parts of the country, and have achieved, and are still schieving, a great work in the education of the people. In the manufacturing districts of the north, the west, and the Midlands, Mechanics' Institutes during the Victorian reign accomplished incalculable good.

Medals, as decorations for military service, were first issued in this country by Charles I., who ordered medals for gallantry to be distributed to certain soldiers in 1643. Medals were also issued to officers and men who were victorious against the Dutch fields in 1623. After Lord Howe's victory in 1794 a Navai medal was instituted. Medals were also struck for the victory of Waterloo, and since that time special medals have been issued in connection with all our wars. The Victoria Cross, a special reward for personal gallantry in the Army and Navy, was instituted in 1856.

Mearschaum, a white or yellow-white earthy mineral, found in beds in Asia Minor, Greece, and winner, and when or wellow white earthy mineral, found in beds in Asia Minor, Greece, and

Mearachaum, a white or yellow-white earthy mineral, found in beds in Asia Minor, Greece, and other places, is a suitcate of magnesium allied with water. Its chief use is in making pipe-bowls, though

in Spain it is used for building purposes.

Hegalichthys, an extinct fish, fossil remains of which have been found in the Devonian and Carboni-

ferous formations.

Megalosaurus, an extinct reptile of enormous proportions, having a length of from 30 to 40 feet.
Fossil remains of this monster have been found in Colithic Slate and Weald Clay.

Medaphone, a conical tube for propelling the sound

of the voice to a distance.

Megatherium, an extinct animal of the sloth order MERATORYLUM, an extinct animal of the sloth order which attained a height of 5 feet, and measured 18 feet in length, including the tail. The post-Tertiary deposits of South America have yielded several specimens of this animal. Bellinite, a crystalline solid explosive of tremendous-power, whose chief ingredient is justic acid. Bellon, a well-known tropical fruit, of which there are

numerous varieties, nearly all being used as food

numerous varieties, nearly all being used as rood.

Mendicant Frians, certain religious orders which
spread over Europe in the 13th century, and comprised the Friancs, and, hominicans, Augustness and
Carnelites, Orignally they depended entirely on alms.

Mendicity Bootety, established in London mights
for the suppression of systematic begging. It has

done much to protect the public against impostors.

Mennonites, so called from having adopted the
doctrues of Menno Simons, a prest of the zoth Century, who led the Baptists, not Anabaptists. There are several communities still existing.

Mercator's Projection, a method of indicating merchans of parallels of latitudes on maps, intro-

duced by Mercator in the roth century, and still universally used in navigators charts.

Mercars' Company, the wealthest and one of the oldest of the London Livery Companes, with a present income of £111,000.

present income of A.11,000.

Berchart Adventurers' Company, first established in Fingland in 1406 by Henry IV., and specially chartered by Edward III. It continued trading, and did much colonising down to the time of Charles I.

Merciless' Parliament, the name given to the parlianient of 1988 summoned by Richard II., which decreed the execution of several of the king's ministers and the outlawry of the Duke of Suffolk.

Mercury, one of the smaller planets and the nearest to the sun, though 354 million miles distant. It has no satellite. The transit of the planer over the sun's disc occurs only at wide intervals. The last

tune was in 1868

time was in 1868.

Mercury, or Quickellver, is one of the oldest known metals, whose chief ore is the sulphide cimabar, found in certain parts of Spain, China, Japan, Mexico, and South America. It is the only metal which is liquid at ordinary temperature, and does not alter by exposure to air when pure. It is largely used in the construction of barometers and that the metals are and attached allow. It is the thermometers, and is an adaptable alloy. It is also of great value in medicine

Maridian, an imaginary circle extending through the North and South Poles and any given place. When the sun is at its mid-day height at any place it is an on the meridian ": hence the terms ante-meridian (a.m.)

and post-meridian (p in.).

Merino Sheep were imported into England from Spain in 1788, and had great influence in improving native breeds, especially in regard to the quality of the wool. It has been supposed that these sheep were descended from the English sheep sent to Spain in 1300 as part of the dowry of John of Gaunt's daughter Katherine, but this statement is of more

than doubtful authenticity.

than doubtful authenticity.

Marit, Order of, instituted 26th June, 1902, for persons signally distinguished in the service of the State. The original members included Lord Roberts, Lord Wolseley, Lord Kitchner, Lord Fisher, Lord Rayleigh, Lord Kelkin, Lord I ister, Sir William Huggins, Lord Morley, Sir Lawrence Alma-Tadema, Mr. G. F. Watts, Mr. Holman Hunt, Farl Cromer, and Mr. George Mereduth. Among the more recent additions to this roll of honour are the names of Thomas Hardy, Sir Edward Elgar, Viscount Bryce, Sir G. Oito Trevelyan, Bart, Sir Joseph J. Thomson, Professor Henry Jackson, and Sir William Crookes. The three eminent Japanese, Marquis Yamagata, Marquis Oyama, and Admiral Togo, also had this special honour conferred upon them.

Marlin, a bird of the falcon family, and the smallest of the hawks species. It is not unfrequent on British

Marin, a bird of the falcon family, and the smallest of the hawk species. It is not infrequent on British grouse-moors, and in the hawking days of the olden time was the bird most favoured by the ladies.

Mermaid, the reputed woman-fish of the ancients, and doubtless originating in the manatee occasionally seen by sailors. The manatee suckles its young beginning with Clovis, 407, and ending with Chilperic, 753.

Merry-Andrew, the name given to performing clowns in olden times, derived from Andrew Borde, a facetious physician of the reign of Henry VIII.

clowns in olden times, derived from Andrew Borde, a facetious physician of the reign of Henry VIII.

Mesmarlsm, the so-called science of animal magnetism first introduced by Dr. Mesmer, in 1766, but since exposed as a fallacy. See Hypnotism.

Messageries Maritimes, the principal French steamship company, whose cluef port is Marseilles.

Trades mainly with South America and the East.

Magnetic fro all decay them for a detailing house.

Traces mainly with South America and the Last.

assuage, the old legal term for a dwelling-house
and its immediate out-buildings and adjoining land.

etailurgs, the science of obtaining metals from
their ores and applying them to the uses of man,
[See the different Metals.]

(See the different Metals.)

Metamorphic Rooks, are such geological deposits as have undergone alterations of structure and composition which seem to place them apart from what must have been their original stratification. The most active agents in producing these metamorphic changes are heat, water, and pressure.

Metaphor, an analogous substitution of word or meaning for poetic offect, differing from a simile in that it is a figurative expression and not one of mere similarity.

of mere similarity.

Metaphysics. Aristotle's term for defining the

metaphysics. Aristole's term for defining the philosophy of supernatural science.

setsyst System, a land cultivation method prevalent in Italy and France, whereby the landlord provides the land and materials and the tenant the labour, the produce being evenly divided between them.

setsystychosis, the Pythagorean theory of the transmigration of the soul from one body to another.

Meteorites are solid bodies, or metallic masses which fall from the sky to the earth. Iron is the presionmating element, in association with mickel. Meteoric stones, in addition to tron, contain siliceous substances, as well as gaseous mixtures. At L'Algle, France, in 1809 from 2,000 to 3,000 meteoric stones fell; the largest meteorite stone actually known to have fallen to earth is one which descended in Emmott county, Iowa, in 1899, weighing 437 pounds.

Meteorology, the science which treats of the various atmospheric phenomena included in the term weather, and studied with highly beneficial results in recent times. The Meteorological Department of the Board of Trade was started in 1855. The system of storm-wornings was established in 1867. Weather bureaux are in operation in many chiefcities, and at prominent points of observation, all

cities, and at prominent points of observation, all over the world, and weather forecasts form a portion

of every day's newspaper intelligence.

celestial space, such as shooting stars.

Meter, an instrument or apparatus for measuring

Mates, an instrument or apparatus for measuring anything, as gas or water.

Methodista, a term designating the religious organisation founded by John Wesley in 1730, after a long course of successful preaching by him in all parts of the kingdom, as well as in America. Macaulay has said of him that his genius for government was not inferior to that of Kicheliou, and the constitution of the Wesley an Methodists, as their founder formulated it, showed a remarkable genius for administration. Wesley's two leading doctrines were those of instantaneousness of conversion and for administration. Wesley's two leading doctrines were those of instantaneousness of conversion and Christian perfection, or deliverance from sin. The itinerant system of the Conference is a prominent feature of his organisation. There are in the United Kingdom alone between 4,000 and 3,000 Wesleyson Methodist ministers, about 20,000 lay preachers, over 500,000 church incubers, over a million Sunday school teachers and scholars, and from 8,000 to 9,000 chapels. Among the other Methodist organisations, off-shoots of the Wesleyans, there are the Methodist New Connexion, the United Methodist Free Church, and the Primitive Methodists. In the United States and the Primitive Methodists. In the United States the Methodists have a membership of over three millions, and throughout the world 18 million persons receive Methodist instruction. The Wesleyans raise nearly £200,000 a year for their extensive missionary operations, and in 1907 the body got together a Twentieth Century Fund of one million guineas for evangelistic, educational, and philauthropic work. The Wesleyan Central Hall at Westminster was

opened in Oct., 1912.

Methuen Treaty, a treaty of commerce between Great Britain and Portugal, concluded by Paul Methuen, the British Ambassador at Lisbon, in 1923. It provided for the importation of port wine at reduced rates, and led to the popularising of the

at reduced rates, and the to the populations of the betweape in this country.

Methyl, a colourless and odourless gas; a compound of hydrogen and carbon, obtained in the free state by the chemists Franklin and Kolbe, independently of each other, in 184, a combination of pure alcoholmant of the pure wood spirit, largely used as

Mathylated Spirit, a combination of pure alcohol with 10 per cent of pure wood spirit, largely used as a solvent, and obtaining its name from methylation, which is the chief element of wood spirit. Mathylation is a solvent of length, equivalent to 39 37042 English inches, and computed to represent the ten-millionth part of the distance from the equator to the North Fole. Metric System is the decimal method of calculation. It came into force in France in 1789, and has since been adopted in most of the continental countries and by the United States and Canada. There have been many attemptstoget the system adopted in

tries and by the United States and Canada. There have been many attemptstoget the system adopted in this country. But without success. (See Matric and English Measures in Office Compendium Section.) Metrochroma, an instrument for the measurement of colour, consisting of three hollow wedges of glass of identical capacity and angle, and so arranged between two screens that any portion of their tapering sides may be presented at will to an aperture through which a ray of light may be thrown.

Metronome, an instrument for beating time during the performance of a musical composition. It com-prises a double pendulum, and may be wound up like a clock.

like a clock.

Meatepolitan Water Board, a body constituted by special Act in 1902, consisting of 66 members, and controlling the water supply of London. Lap.coc, occupanise absorbed.

Mets. Biege of, lasted from August 8th to October 19th, 1769, when Marshal Bazanie surrendered to the Germans, his army consisting of 173,000 men, 400 pleces of artillery, and over 6,000 officers. Bazanie artied and condemned to death for this surrender in 1892, a sentence which was communited to a weard. was tried and condemned to death for this surrender in 1874, a sentence which was commuted to 20 years' imprisonment, but subsequently he escaped.

Bazzedink, an engraving from copper or steel produ cd by instruments which burnish and scrape away portions of the surface, and yield an impression effectually gradbul in light and shade.

Hose, a nearly transparent mineral, which has great the surface and the surfa

Mica, a nearly transparent mineral, which has great beat-resisting power, and can be split unto thus plates. Michael, St., and George, St., an order of knighthood originally founded for the Ioman Isles and Malta in 1818, and reorganised in 1860, so as to admit Crown servants connected with the Colomes. The Earl of Derby, Earl Russell, and Earl Grey were the first of the new knights.

Michaelmas Day, the featival day of St. Michael and All Angels, September 29, one of the English quarter days.

uarter days.

microbe, a term proposed by Sédillot in 1878 (and since very generally adopted) to denote any minute organism, vegetable or animal, or found on the borderland between the two great natural kingdoms.

Micrometer, an instrument for measuring innute distances. It is usually attached to the eye-pieces of a microscope or telescope, and consists of two very fine hairs or wires stretched across the field of very me many of which stretched actors the model of view, one fixed the other moveable. It was invented by William Gascogne in the 17th century and was greatly improved by later inventors. Sir Joseph Whitworth made one in 1853 to measure the millionth

of an inch.

"licrophome, an instrument invented by Prof.

Hughes, in 1878, for giving audibility to sounds which
are otherwise imperceptible to the ear. By this apparatus, which establishes an electric current between
two sensitised conducting bodies, and auded by the
telephone, the sound of the tread of a fly may be
magnified to seeu as loud as the tramp of a herse.

magnified to seem as loud as the tramp of a horse. Microscope, invented about 1950 by Jansen, and improved by Galileo, Fontana, and others, is an instrument which by a combination of lenses magnifies minute objects, making visible animalculæ and other living substances which cannot be seen by the naked eye. Microscopes are sample, compound, and binocular. The more powerful instruments have a magnifying capacity of as much as 10,000 diameters.

Middle Ages, a period of about 1,000 years, during which Europe was in the grasp of feudalism. Hallam reckons the period from the invasion of France by Clovis in 486 to 1,95 when Charles VIII. occupied Naples.

Midde, the common name of a small two-winged fly

Midge, the common name of a small two-winged fly or grat (Cutex priers), clouds of which appear on summer nights in country places.

Midrach, the explanation of the Jewish Scriptures, dating from the interpretation originated by Ezra after the Captivity and continued by later Rabbis.

Midshipmann, junior officers in the Royal Navy, who must have been through four years' training at the Royal Naval College, and have pawed a certain examination. After three years' service as midshipmen they are promoted to the rank of sub-heutenant's their examinations are satisfactory.

Mikado, the hereditary male ruler of Japan. Since 1968 the real sovereign of the country; previously, the Mikado was only the nominal spiritual head, the Tycom (or Shogun) possessing the governing responsibility.

sponsibility.

Elian Decree, the proclamation issued by
Napoleon in sets from Milan, prohibiting continental
nations from trading with England.

Milky Way (Galaxy), the name of a long track of smar stars which almost encircles the heavens. The ancients regarded it as a luminous streak, and the name commemorates the mythological legend that Juno when suckling Mercury or Hercules scattered milk across the sky.

IllanaFans, a sect that interprets the Millennium**

Millanarians, a sect that interprets the Millennium period referred to in Revelations as beginning from the close of the seven thousandth year from the Creation, Millenary Petition, was presented to James I, in 1602 on behalf of nearly 1,000 Puritan Ministers against certain of the rites and ceremonles of the Church of England. The Hampton Court Conference was the outcome of this petition.

Millar's Thumb, a small fresh-water fish deriving its name from its supposed smilarity of head to the thumb of a miller, which assumes a compressed shape by frequent sampling of meal. The fish is the Eagle-ray, Millack as nutrition, cereal cultivated in nearly all

Hagie-ray, Bithobatis aguida.

Millat, a nutritious cereal cultivated in nearly all warm climates; native to the East Indies.

Milliantes, a French luneal measure, equivalent to a thousandth of a metre, or orogay of an English inch.

Millatone-grit, a bed of rock of the Carboniferous group underlying the Coul-measures, and attaining in England a thickness in parts of 5,000 feet. It is from this rock that millstones have been made from time immemorial.

Mimiery, a scientific term designating the power of many forms of animal and usect life so to adapt themselves in colour and shape to their surroundings the science of numerals. The British

as to escape actection by their ententes.

Inaralogy, the science of mmerals. The British Mineralogical Society was established in 1800.

**Inia Riffe, invented by Capi. Minlé, a Frenchman, in 1832 and for a time considered to be the best rifie in Europe. It was adopted by the French, and in a modified form by the British in 1851, but has long been super-cell disasting a new super-cell disasting a new super-cell disasting a new super-cell disasting a new super-cell.

song ueen super-eded.

Minim, a musical term denoting a note equal to two
crochets, or half the value of the semi-breve.

Minimisers, the name applied to certain writers
who, in the latter half of the 19th century, advocated
the limitation of life and property. The writers included John Stuart Mill, Herbert Spencer, and
W. von Humboldt.

W. von Humboldt.

Minnesingers were minstrel poets of Germany
who, during the tzth and 13th centuries, composed
and sang love ballads to amuse the kinghts and
barons of the time. They were mostly of gentle
birth. A collection of their songs was compiled in
the 14th century, after the rise of their successors,
the Meistersingers.

Minnow, a small fresh-water fish of the carp family abounding in all the waters of Europe; it has a mottled back and silvery belly, and forms a popular

Minor, a musical term referring to intervals and scales; thus, a minor interval is a semi-tone less than

scales; thus, a minor interval is a semi-tone less than the corresponding major interval.

Linstrels were originally specially appointed instrumentalists and sugers—pipers, harpers, and gleenen—engaged by barons and manorial lords to amuse their tenants. John of Gaunt had a court of minstrels at Tutbury in 198. Later, ministrels assumed nomadic habits, made their way mu the house, of the great, and were generally welcome. By Elizabeth's time, however, they were too thick on the ground, and were classed as "reques and vagabonds," along with actors.

Liracle Plays were a rude kind of sacred drama

Miracle Plays were a rude kind of sacred drama constructed by the monks in feudal times, and mostly representing certain miraculous incidents of the Bible.

Mirage, an epitcal illusion often observed in desert regions when the objects on the surface of the ourier appear as if reflected in a surface of water. Mirage is due to the unequal heatung of the different parts of the atmosphere, which bends the light rays, and so

the atmosphere, which bends the light rays, and so produces distorted langers.

Introp were made of burnished metal in ancient times, brass usually. Silver mirrors were introduced by Praxiteles, 308 B.C. The Venetians made the first mirrors of glass, in the 14th century, but they were not made in England until the 17th century.

PEARS CYCLOPAEDIA

Bishma, the first part of the Taimud, setting forth the "Oral Law" of the Jews.

Bisprision, a legal term, signifying an office which may border on a capital charge. Misprision of treason indicates a knowledge of treason without participation in the treasonable act.

Bissal, the name of the mass-book of the Roman Church complete 492-6 by Pope Gelasius I., and revised by Gregory I., 590-604. The present Roman Missal was sanctioned by the Council of Trent 1943-62. In the Anglican Church the Book of Common Prayer superseded the Missal in 1949.

Bissal-Threash receives its name from its partiality to the mistletoe-berry. A common bird in England and larger than the song-thrush.

Bissletce, a paresitic plant found growing on many trees, particularly the apple-tree. The Druids finded it an object of reverence, and it is especially associated with Christmas as a decoration.

Bistral, a cold, dry wind peculiar to the French coast of the Mediterranean.

Bitrallieuse, a breech-loading machine gun adopted by the French army previous to the Franco-German war of 1990.

adopted by the French army previous to the Franco-German war of 1970.

Ithree, an ecclesiastical head-covering worn by the Jewish high priest, afterwards adopted by the Jewish high priest, afterwards adopted by the Jewish high priest, afterwards adopted by the Jewish Lincoln of Lourd of England wore mitres down to the reign of George III. The Council of Lyons enjoined the wearing of the "Rod Hat" upon Cardinals from the middle of the 1871 century.

Inamonios, a method of developing the memory, which has been practised more or less since 477 B.T., when Simonides the younger invented the first known system. Among the more eminent professors of this art may be mentioned Feinagle, Aime Paris, Willis, and Grey. Numerous teachers of the art advertise their systems at the present time.

art advertise their systems at the present time.

Moa, a now extinct genus of birds of the ostrich family, wingless and standing 12 to 14 feet high, natives of New Zealand and Australia.

nanves of New Zealand and Australia.

Moabites, a race of Judea, descendants of Lot.
They were often in conflict with the Isruelites, but
were finally subdued by Jehoshaphat, 895 E.

Moabite Stone, a stone of the 9th century B.C.

Containing the earliest known inscription in
Phoenician characters, and discovered in the land of
Moabite 1809 Moab in 1863. Important as confirmatory evidence of the Moabite wars mentioned in the Old Testament.

Testament,

Mocking Bird, an American bird of the thrush
family, widely distributed over the north and south
of the Western Hemisphere. Its gift of imitation
is wonderful—a gift which is exercised chiefly in
imitating the voices and cries of animals.

Modoc Indians were a warlike tribe occupying
American lands south of Oregon. They were
allotted other lands by the United States Government, but being dissatisfied with their new quarters,
setured to Oregon and defed the tropys sent to returned to Oregon and defied the troops sent to expel them. Severe fighting followed, but after a few months the Modocs surrendered in 1873.

leguis. (See Mongola.)

Mohair is the wool of the Angora goat and used wery largely in the worsted trade for the manufacture of dress fabrics,

Kohooks, a lawless band which infested London in currents, a weeks toda which interest London when the early part of the 18th century, committing many outrages upon men and women under cover of the night. The word is a corruption of Mohawk, the name of a tribe of Red Indians.

name of a tribe of Red Indians.

Holiza, or watered silk, so-called because of the
finishing process it undergoes, the "water" marks
being produced by wetting and extreme pressing.

Holizamens, sugar-cane jude in its uncrystallused form
after boiling. The crystallised part is the raw sugar.

Holizamens, sugar-cane jude in its uncrystallused form
after boiling. The crystallised part is the raw sugar.

Holizamens, sugar-cane jude in the served with
strong claws for digging in the earth. Their subterranean dwellings are of curiously ingenious construction, and they do not often leave them except
to make raids on mice, frogs, smalls, etc. The earthworm, however, is the mole's chief item of food.

Molacula, the minutest particle into which any substance can be subdivided. There are millions of molecules in a cubic inch of gas.

Mollusca, designates the soft-bodied invertebrated animals, most of which are protected by a shell. These shells are univalve—that is, of one piece—as in the case of smalls; bivalve as the oyster; or multivalve, though this kind is soldom met with. The shell is wanting in some classes of mollusca, such as the polyca.

"Molly Maguires," the name of a secret society organised in Ireland in 1843 for revolutionary purposes; also of an American association formed in Penusylvania about 1876-7 arainst mine-owners and

Penusylvania about 1895-7 against mine-owners and their agents The members of these bands were women's clothes.

Wolybeanum, a metal found in combination with sulphur, and forming an acid which combines with metals producing saits called molybdates. It is formed in granite and is very similar to graphite in appearance though totally different in its properties.

Mongols were in ancient times known as Scythians. SORGOLS were in ancient times known as acytaments. They were a nomadic race until about the 13th century, when they conquered large, portions of Asia, including China, Persia, and India. They founded the Mogul dynasty in India in 1525, and ruled up to the end of the 18th century, when their empire came under British control.

Evantures an Indian species of ichneumon, feeding

Mongoose, an Indian species of ichneumon, feeding on vermin and reptiles, and a deadly foe to the

make.

Moniton, a genus of water-lizards noted for their great size, their long beards, long tails, and scaly covering. They are supposed to signal the approach of the crocodile to their neighbours by a curious hissing sound. There are 18 species, inhabiting Southern Asia, Australia, New Guinea, and Africa.

Monkey, a quadrumanous mammal of the order Primates, and including all members of that order excepting man and the lemurs. Monkeys with short tails are usually called apes; those with long dog-like faces baboons, small bushy-tailed monkeys marmosets. (See the various class names.)

Monmouth's Rebellion was headed by James.

here faces Demons, sense of the property of th

Enophysites, an ancient sect who held that Christ was of one nature only, a blending of the divine and human.

Monothelem, the doctrine that there exists but one God. The chief monotheistic religion is Christianity.

Monotramata, the name of the order or sub-class of manumalia comprising the duck-billed animals, of which only three species exist, restricted to Australasia. The Echidna, or Porcupine Ant-eater,

belongs to the order.

Decorpts to the order.

Conros Decorrine refers to a formal deciaration made by President James Monroe that no European Power should be permitted to interfere with the concerns of government of any of the independent States of North or South America. It also set from that the American States would not interfere in European affairs.

European affairs.

Monsoons are certain winds which at regular seasons aweep over warm latitudes, especially india, where they prevail more or less from April to October.

Monstramed an ornamental receptacle in which sacred relics of the Roman Catholic Church are held up for inspection.

Montanists, a sect founded in the and century by Montanus, who expounded the doctrine of the continuation of the miraculous influence of the Holy Spirit. They are also called Phrygians, because of their leader being a Phrygian.

Month, the 13th part of the calendar year. A lunar month is the period of one revolution of the moon; mean langth, 29 days, 12 hours, 44 minutes, 2°87 seconds. A sidereal month represents the time of the moon's revolution from a given star back to the same again, 27 days, 7 hours, 43 minutes, 11°5 seconds. A solar month covers the time the sun passes through one sign of the Zodiac, 30 days, 10 hours, 29 minutes, 47 seconds.

one sign of the Zouac, 30 days, so nours, 39 minutes, 47 seconds.

Bonton, a heap of ore, varying in quantity in different mining districts, but representing technically a batch under amalgamation.

Bonts-de-Plats, Government institutions for advancing money for goods left in pledge, were first established in Italy in 1462. Similar institutions in

established in Italy in 120. Similar institutions in France in 1777 were suppressed by the Revolution, but restored by Napoleon, and have since been expressly regulated by law.

Moaument of London, erected in 1672-7 by Wren in commemoration of the Great Fire, is soo feet high, and cost £14,500. The original inscription upon it sacribed the fire to "the treachery and malice of the popish faction," which stood down to 1831, when the words were crased as objectionable. The

of the popish faction," which stood down to 1831, when the words were erased as objectionable. The black marble staircase consists of 345 stops.

Boon, the earth's satellite, is distant from us about 238,000 nulles. It is a globe 3,160 miles in diameter, and the period from one full moon to another is 30 days, 12 hours, and 4,14 minutes.

Boon-hem, a bird of the crake family familiar on the borders of British ponds, rivers, and lakes. It is of dark grey plunage, with olive-brown wings edged with white.

with white.

MOOPS, the name applied in modern times to the natives of Morocco. They were as a race at one time very powerful, and from 123 to 1402 held possession of the kingdom of Granada. They were expelled from Spain in the 17th century and established themselves in Northern Africa.

Moose. (See Ells.)

Moplahs, a race of Mahommedan fanatics, settled principally in Malabar, and descended from Arabs. They showed for a time a rebellious spirit against the British, and were guilty of serious outbreaks.

They were, however, subdued in 1873, since which
time they have given no further trouble.

time they have given no further trouble.

Craviana, a sect that spring from the Hussites of the 18th century. In 1722 they had a community of 500 persons, settled on the evtare of Count Zinzendorf. The Count was a zealous preacher, and established Moravanism in Lingland in 1738. The Moravanism have at present a membership of about 20,000 on the Continent of Europe, and own some 50 chapels and preaching places in England, with about 3,000 church members in all. They have been specially successful in mission work, and have considerable settlements in America.

**Bordanz's are substances used for making colouring matters "bire" or adhere firmly to articles being dyed. They are mostly of a metallic nature, and combine with the dye-liquid in which the fabrics are dipped. In addition to the metallic mordants there are some vegetable mordants, the chief of which are

are some vegetable mordants, the chief of which are argol, sumac, nut-galls, etc., but these are not

regarded as true mordants.

Lordanatic Marriages are unions between males corganatic Marriages are unions between males of royal or ucble rank with women of inferior rank. In such marriages the left hand is given instead of the right, and it is stipulated that the children of the marriage are not to enjoy the rank or inherit the possessions of the husband, though such children are legitimate. Many morganatic marriages have occurred in our own royal family.

Tergue, a repository for dead bodies awaiting identification, the best known morgue being that of Parks which until recently was nown to the reneral

identification, the best known morgue being that of Parks which until recently was open to the general public. Others exist in the chief French towns. Hermons, or Lintter Day Haints, a religious sect founded by Joseph Smith, who, in 1897, gave it forth that he had discovered the Book of Mormon written on gold plates in Egyptian characters. This book, it afterwards was discovered, was written as a religious romance by a clergyman. A pretended English translation was published in America in

1830, and in England in 1841. Sinith made it serve as the faundation of his new faith, and he began to preach Mormonism and to organise churches. He was shot in an attack by the mob at Nauvoo, in Illinois, in 1844, when Brigham Young was cheen prophet in his place. The Mormons settled at Great Sait Lake in 1847, and from that time considerable success attended their settlement, their material prospority bringing in fresh converts, "Morating Prost," established as a London daily newspaper on the and November, 1772, in support of the Whig political cause. It became a Conservative organ in 1874, and in 1881 its price was reduced from 4d, to 1d.

d, to id.

Morphology, the science which deals with the form, structure, and position of the different parts of animals and plants, and their developments.

Morpunkee, an Indian pleasure-boat, long and narrow, of considerable capacity, with a high peacock shape decoration at the stern.

Morris Dance, an old English country dance of the

reel order

Morse Alphabet, a system of dots and dashes, intended to be used in combination with the indicator in telegraphy; but usually read by sound, the receiving operator writing down the words in the system as transmitted. Professor Morse, of Massa-

chusers, was the inventor,

chusers, was the inventor,

chamber for throwing bombs. They are said to
have been first used in the 15th century at Naples,
but were not introduced into England until a century later. The mortars made at the present time are so powerful that they can throw shells of nearly 2,000 lb, weight a distance of over five miles. They are

mostly used in siege work.

Mosaic, a joining together of small pieces of coloured glass, marble, or other materials in designs to imutate glass, marble, or other materials in designs to imitate painting. The ancient Greeks and Romans acquired great proficiency in this art, which was revived in Italy in the Middle Ages with considerable success, many enument painters designing subjects for mosaic. It is an art that still flourishes, and notable examples occur in some of the principal modern buildings.

Moscow, the Retreat from, was one of the most disastrous events in the career of Napoleon I. He entered Moscow on the 14th September, 1812, and the next day the Russians set fire to the city, practically burning it down. The French were forced to evacuate, and in making their retreat to France Napoleon lost the greater part of his army.

Mosloms, the general European term applied to Mahommedans.

Mahommedans.

Mosque, a Mahommedan church, the greatest being that of St. Sophia at Constantinople.

Mosquite, a species of gnat which is most highly developed in hot climates, and is provided with a suctorial apparatus and a skin-piercing proboscis. Mosquitos eagerly attack himan beings for the purpose of sucking blood. Within the last few years many mosquitos have found their way to this country, presumably with the fruit transported from tropical climes, and in Essex and other marshy districts of the South have become a serious annovance. the South have become a serious annoyance.

Moss, the name of numerous flowerless, close-growing

plants, common to most hilly lands.

Loss-agate, a kind of agate characterised by minute grains of oxide of iron or chlorite, forming a moss-like pattern which is very ornamental.

moss-like pattern which is very ornamental.

Moss-twopers were bands of Scottish marauders
who used the mossy regions of the Scotch and
English borders as hiding places, and thence made
frequent plundering expeditions, keeping that part
of the country in constant unrest. It was not until
the 18th century that they were finally put down.

Motatts, short choral compositions, of which many
fine examples survive. They were mostly written in

fine examples survive. They were mostly written in
the 15th century, and are generally settings of sacred
writings or paraphrases.

Moth, a digision of insects of the butterfly family, but
differing from the latter in having antenne tapering
to a point. They are of accturnal habit, and comprise a wonderful variety, some of those of tropical
countries being of extraordinary brilliance.

Motor Vehicles are being produced in ever increasing numbers year by year, the record of the last few years showing a remarkable explansion in every direction. The tendency has been greatly to strengthen the motor industry in the United Kingdom, with an accompanying improvement in the class of vehicles mannfactured and a general cheapening of price. The placing of large numbers of notor omnibuses in service has had the effect of dislocating street treffic commwhat and some exploitations have omminutes in vertice has had the effect of dissociating street traffic somewhat, and some exploitations have come to grief from various causes; but with a better type of vehicle this kind of service has become suc-cessful. The London General Omnibus Company's cessful. The London General Omnibus Company's services are now wholly operated by motor vehucles. The loss of life resulting from motor traffic is very serious. During 1912, 182 persons were killed in London alone by motor buses. A Select Committee inquired into and reported on this matter in 1913, when important new traffic regulations were recommended. Motor cabs have proved a great boon. There has also been a remarkable increase in the number of motor vehicles used for industrial business, and ministry purposes, while the electric relieves and mintary purposes, while the electric railways

and mintary purposes, while the electric railways, above ground and underground, have multiplied to an enormous extent.

Boune, a species of small rodent abounding in all countries, and forming, in conjunction with rats, a most extensive genus. The British species include the common house mouse, the harvest mouse, and the long-tailed field mouse.

Muggletonians, a curious sect founded by a tailor named Ludwic Muggleton-son of a London farrier
—m the zyth century. Muggleton and his associate—
also a tailor—John Reeve, proclaimed themselves the
two last witnesses of God to appear before the end
of the world, as mentioned in Revealation, xl. 3.

wile, the name of the spinning machine invented by Crompton in 1770, and so called from its combining the principle of Hargreave's summing jenny with the machine invented by Arkwright,

willet, a species of well-known fishes, ircluding the red, grey and striped mullets. The litter is best known in England, frequenting the Southern coasts.

Williams are projecting windows with vertical

in England, frequenting the Southern coasts.

Mullions are projecting windows with vertical
divisions—or, more properly, such vertical divisions
of mullioned windows—forming a highly decorative
feature in Gothic architecture. The horizontal
stones forming the crossing du islons between the
lights of this class of window of the Elizabethan or
Tudor period of Gothic are styled transoms.

Mummles are embalmed bodies, tound mostly in
Egypt; supposed to be those of divinguished people
who lived thousands of years ago. Mummles have
also been found in Peru, Mexico, and Persia. The

also been found in Peru, Mexico, and Persia. embalung process which has enabled the bodies to be preserved can only be conjectured, though it is known that various aromatic substances were used after the viscera and other vital organs had been removed, the cavities being filled with absorbent

removed, the cavities being filled with absorbent dust, chippings, and codar wood.

Murdar is the term applied to the unlawful killing of a human being, "with malice aforethought," During the Hepturchy the crime was punished by fine only, and to Henry VIII's time could frequently be compounded for. Then followed a period of severe enactments, and down to 1836 murderers were executed on the next day but one after conviction. executed on the next day but one after conviction. In nearly all civilised countries at the present time murder is punished with death, and can only be reduced by the "prerogative of mercy," never exerted unless mutigating circumstances sense.

Eurrain, a general term applied to infactious diseases in cattle.

Musk Deer, a small and interesting ruminant, which Musk Deer, a small and interesting ruminant, which mhabits the mountain regions of Contral Asia. It is grey in colour, slightly brindled, and carries a small pouch in the abdominal region, containing what is commercially known as musk, an article which is of great value in the manufacture of various perfumes. Husk Ox, an animal partaking of the characteristics of both the slicely and the ox, and having a musk odour. It is a native of Northern Canada.

Huslin, a fine cotton fabric first made at Mosul in Maccordenia and interdered international shout.

Mesopotemia, and introduced into England about

the middle of the ryth century. In recent times muslins have been largely manufactured in England. Mussel, a well-known bivalve found in great abundance on the rocks of the son-shores. There is also a frash-water species plentiful in streams and ponds. Mustarng, the American wild horse, descended from the stock first introduced by the Spaniards. Mute, an old legal term signifying that a prisoner on being asked to plead remains mute, that is, makes no answer to the charge, or some answer that is irrelevant. Up to 1241 prisoners who "stood mute" were vant. Up to 1241 prisoners who "stood mute" were answer to the charge, or some answer that is irrelevant. Up to 1741 prisoners who "stood mute" were put to the torture. Since 1827, when a prisoner declines to plead, the court directs a plea of "Not Guilty" to be entered, and the trial proceeds Mutiny Act, which provides for the discipline, regulation, and payment of the Army, was passed in 1890, and has since been re-enacted annually. Myrispoda, the class of invertebrated animals including centipedes, millipedes, and many others. They are widely distributed, but the largest species are found in the Tropics.

Myrin, a resinous substance obtained from a tree of the natural order Amyridaceæ, growing plentifully in

A the natural order Amyridaceae, growing plentifully in Abyssinia and Arabia. Its use for embalming, medical and aromatic purposes may be traced back

to the most remote times.

Mysteries were theatrical performances given by ecclesiastics in the Middle Ages, with the object of conveying moral lessons and presenting Scripture stories in more or less realistic form. The Ober-Ammergau Passion play is a survival of one of these ancient mysteries.

Wythology, the name given to any collection of traditions and fables concerning maginary gods and goddesses, especially applied to the ancient Grecian collection of myths.

Nabob, a term usually applied nowadays to a wealthy East Indian, though formerly given only to Governors, commanders, and other dignified persons who had resided in the Orient and returned to England with competence and an inactibility of disposition.

Nadir, the point in the heavens which is at the opposite pole from the place on which a person stands.

Nadyagite, a rare interest, found, usually in crystals, in Tanaylvania or the United States of America; it is sulpho-telluride of lead and gold, with occasional successions.

is a sulpho-telluride of lead and gold, with occa-sional traces of copper and antunony.

Nahum Festival, in commemoration of Nahum, the 7th of the 12 minor Helvrew prophets. It is held on December 24th Nahum flourished about 713 B.C., during the reign of Hezektah, and wrote his prophecies a short time after Sennacherib's

Naiad, a water-nymph of classic mythology, beautiful and mystic; celebrated by Vurgil, Ovid, Homer, and

other ancient writers.

Names of Places not only introduce us to many of the striking local characters of bygene ages, but from them it is often possible to locate the earth-works and other primitive fortifications of our early progenitors, and also to ascertain which of the great races have peopled a particular district. The effect of local tendencies is seen all over England. The North retains burgh, as in Banburgh or Edinburgh; in the Damish district It has become berough, as in Gainsborough. Scarborough, and Peterborough. in the Danish district it has become borough, as in Gainsborough, Scarborough, and Peterborough; while in the Saxon South we have bury, as in Banbury and Canterbury. So also the Anglo-Saxon craster, formerly used to designate any Roman town, now has a special significance, based upon the way in which it has been adapted. In the old Mercian Kingdom it takes the form of catter, as in Worcester, Gloucester, Beicester, etc.; in the Scandinavian districts it becomes caster, as I. ancaster. Doncaster, ctc.; while the cheeter of such names as Manchester, Chesterfield, etc., indicates Saxon settlements. Mankeen, a kind of yellow cotton fabric originally made at Nankin in China, but now mainly manufactured in England, which actually exports the cloth to China.

Nantes, Edict of, was a degree promulgated by Henry IV. of France in 1798, giving full freedom of worship to the Protestants of the country. It was the revocation of this famous Edict in 1885 by Louis XIV. that drove hundreds of thousands of

Louis XIV. that drove hundreds of thousands of French Huguenots to this country.

Maphtha. a well-known liquid combustible believed to have heen one of the ungredness of "Greek fire," and called by the Greeks "oil of Media." Mineral naphtha consists chiefly of mixtures of the hydrocarbons paraffin and olefine. Other kinds are obtained from coal tar and from wood by distillation.

Maphthalene is procured from coal tar, and its derivatives are much used in the manufacture of colours for dyers and printers.

Marcotics are substances which induce languor, and it taken in large doses produce insensibility or death. The best-known narcotics are opium, icohol. coca. tobacco, hops, etc.

lcohol, coca, tobacco, hops, etc.

its action less powerful than morphine.

Wardus, a coarse genus of grasses, growing on bleak upland heaths and hill slopes. Nardus stricta, commonly called "mat-weed," is a British species.

commonly called "mat-weed," is a British species.

Marghile, an oriental tobacco pipe so constructed
that the smoke passes through water and up a long
strible tube before reaching the lips of the smoker.

Marwhal, a kind of dolphin, remarkable because
the male possesses a spiral rod of ivory projecting
from its head several feet in length. The animal
itself is some 16 feet long and of whale-like form,
with sported skin. Found only in Northern seas.

Masalis, a peculiar type of monkey, with a long
prominent nose. The leading example is the
"Proboscis monkey" of Borneo.

Masaby, Battle of, was fought on lune 14th. 164c.

Masaby, Battle of, was fought on June 14th, 1645, between the Royallists, under the command of Prince Rupert and the King, and the Parliamentarians under Fairfax and Cromwell. It resulted in a com-

under Fairfax and Cromwell. It resulted in a complete defeat for Charles.

**Sational Anthem ("God Save the King") has been the national hymn of England since about the middle of the 18th century. There is some doubt as to its ongin, but Dr. John Bull is generally believed to have been its composer. The tune has been adopted for one of the National Anthems of the United States, "My Country, tis of Thee."

**Rational Assambly of France was constituted on June 17th, 1789. Three days later the king ordered it to be closed, but the movement had got too firm a hold to be summarily put down, and the Assembly afterwards met at the Church of St. Lons and proceeded to perform acts of legislation. In

and proceeded to perform acts of legislation. In 1792 it became "The National Convention."

Mational Convention of France was formed on

September 21st, 1792, constituting the government of the first French Republic.

National Covenant, an oath and declaration subscribed to by the Scottish Presbyterians in 1580, to maintain their religion in all circumstances, and effectively brought to bear in opposition to Charles I's Episcopalianising designs in 1638.

Mational Debt of this country was started in 1604, when £1.0 0,000 was rised by William III. on the security of certain branches of the public revenue. security of certain branches of the public revenue. Four years later the debt had uncreased to over £15,000,000. After Waterloo, in 1815, it stood at £885,000,000. The low-water mark of £628,070,553 was reached in 1839-1900, but the Boer War sent it up again to £745,015,050 in 1902-3. In 1903-4 it was £770,778,752, from which date another decrease set in, the figures for the year ending 1913-14 being £652 decrease.

1661,473,765.

Mational Gallery, established in 1824 in Pall Mall,

Mational Gallery, established in 1824 in Pall Mall, London, with the Augerstein collection of 96 pictures, purchased for £57,000 as a nucleus. The existing building in Trafagar Square was opened in 1838.

Mational Guard of France, a body of citizen soldiers first instituted on the day before the destruction of the Bastille in 1789, by the Committee of Public Safety. As the Revolution developed, the Guard did not command much sympathy, and ceased altogether under the Consultar and Empire. The National Guard was revived later, and proved some-

times very powerful in keeping order in the capital; but in 1871 its mefficiency had been made so manifest that its abolition was decreed. It was under municipal control, despite its sounding national name.

National Portrait Gallery, established in 1856, and now located in a building in St. Martin's Lane adjoining the National Gallery. Contains portraits

aujouring the varional valery. Contains portraits of eininent people in history, literature, art, etc., and a valuable collection of medials and autographs.

National Rifie Association, founded in 1860 for the improvement of nife shooting. The annual meetings formerly held at Wimbledon, but now at Bisley, attract large numbers of competitors, amongst whom valuable prizes are distributed.

National Service League, established in 1902 for promoting the movement for compulsory military

ervice in Great Britain

service in Great Britain.

Nativity.—There are three Nativity Festivals in the Christian Churches, those of the Nativity of Christ, on December 25th, of the Virgin Mary, on 8th Sept., and of John the Baptis', 28th Aug. The first is the only one specially observed by Protestants.

Nativity, a water-snake, the typical genus of the Colubrine sub-family, widely distributed.

Nation, the old scientific name for mative carbonate of sodium or mneral alkali, obtained from the askes of marine plants.

of somum of mineral sizali, obtained from the assess of marine plants.

Natterjack*, a curiou. warty, prominent-eyed, brown toad (Nifo calamiria*), having a bright yellow line down the middle of its back. It utters a muttering sort of croak, hence its name. It is not very common in Britain, but is plentiful in some parts of the European Continent and in Tibet, and is sometimes called the "Rush toad."

times called the "Rush toad."

Matural, a musical term signifying the production of sounds without flats or sharps. A composition is in the "natural" key when in the normal scale of C.

Maturalisation is the act admitting an alien or foreigner to the privileges of chizzenship in his adopted country. As early as 1347 a Naturalisation, Act was passed in England. Before a certificate of naturalisation is granted, the applicant must have resided in the United Kingdom for not less than five years, or have been in the service of the State for years, or have been in the service of the State for that period.

mat person.

Maturalism in art and literature is an attempt to depict the actual, as opposed to the ideal. In philosophy it takes cognisance only of natural forces and ignores the supernatural.

Matural Selection, the term employed by Darwin to describe that development of species which resulted is, the survival of the fittest, and the credible artifiction of the fittest, and the

gradual extinction of the feeblest.

Mautch Girl, a native East Indian dancing girl of the professional class.

Nautchal Almanac," published under the authority of the Admiralty, is always issued four years in advance, and contains unformation specially prepared for the use of navigators and astronomers, It first appeared in 1767.

Nautilus, a term now applied only to the Pearly-

Mautilus, a term now applied only to the Pearly-shelled nautilus, the sole surviving example of the four-guiled section of the Cephalopoda, remarkable for its peculiar compartmented shell, and its power of instant sinking. It is only found in the open seas, Nawal Rasserve (The) comprises the Royal Naval Reserve, established in 1895; the Royal Naval Volunteer Reserve, dating from 1902, the latter including landsmen with a taste for sea life. The total terrogened for 1902-19 was Rayal Naval Reserve. including landsmen with a taste for sea life. The total personnel for 102-13 was, Royal Naval Reserve, 25,534; Royal Ficet Reserve, 26,227; Royal Naval Volunteers, 4,100; grand total, 51,851.

Nawe, is the body or man open portion of a cathedral or church, and extends from the chief entrance to the choir, or chancel, and is insually finnked by sides. A nave, in mechanics, indicates the "hub" or central cathedral wheel

part of a wheel.

Mayigation Laws, for the protection and en-couragement of native shipping, have been frequently passed in England. The first English navigation law of any note was enacted in the reign of Richard II., its leading provision being that mer-

chandise should not be imported into or exported

chandise should not be imported into or exported from England, except in English ships. This law fell into desuetude, and in 1651 fresh flavigation Acts were passed in favour of English ships, the carrying trade having fallen into the hands of the Dutch. The old navigation laws, however, were totally repealed in 1849.

Nawy, a country's fleet of vessels of war, in England called the Royal Navy. From the time of Alfred the Great, ships were maintained for war service, but the establishing of the Cinque Ports in the reign of the Conqueror coincided with the first comprehensive attempt to constitute a reliable fleet. Edward III. the Conqueror coincided with the first comprehensive attempt to constitute a reliable fleet. Edward III., Henry V., and Henry VIII. all devoted considerable attention to the Navy. The Henry Grace de Dieu of the last-named King, 1,200 tons, was the largest vessel that up to that time had been built. If the reign of George III., when Great Blutain had so nuch sea-fighting on hand, the Navy was put on a very extensive footing. In Nelson's time the British fleet comprised about 900 slips of the "wooden walls" type; and in Brather unibers were 177 slips of the "more compressive the numbers were 177 slips of the "more compressive the numbers were 177 slips. walls" type; and in 1814 the numbers were 177 ships of the line, 621 smaller armed vessels, and 150 emof the line, for smaller armed vessels, and 150 employed on home and foreign service. The screw propeller was introduced into the Navy in 1846, which a decade later comprised for steam vessels and 339 sating slips. In 1896 it possessed 258 steam vessels and 339 sating slips. In 1896 it possessed 258 steam vessels carrying 6,588 guns, 275 sating ships carrying 9,598 guns, 158 guns, 275 sating ships carrying 9,598 guns, 158 guns, 275 sating ships carrying 9,698 guns, 158 guns, 275 sating ships carrying 9,698 guns, 158 guns, 275 sating ships carrying 9,698 guns, 158 guns, 275 sating ships sating ships and 150 per cent, in men. Comparing the total of war vessels, built and building, of the contending nations, and omitting battleslips and crussers over ten years old, we get the following figures: Britain, 679; France, 382; Kussia, 249; Janan, 167—a total of 1,471, of which 328 were being built; while on the other side the figures are: Germany, 369; Austria-Hungary, 157; Turkey, 22—a total of 5,84, of which over 80 were in course of construction. Of these, Britain had 34 ships of the Dreadhought class as against Germany's 47, and in other classes the preponderance was in like proportion. In naval personned Britain stood at 216,000 on Aug. 3, 1914; and on Feb. 8, 1915, 2000 men were added, bringmen the total up to ployed on home and toreign service. The screw proportion. In naval personnel Britain stood at 216,000 on Aug. 3, 1914; and on Feb. 8, 1915, 32,000 men were added, bringing the total up to 248,000. The personnel of the German navy numbers 121,000. Up to May, 1915, the main German battle-fleet has been hidden away beyond strong coast fortifications and protected by a vast barrier of mines. In the meantime German cruiters were to the state of the state In the meantime German cruisers were to prey upon British ships on all the oceans, and for a time these attacks were attended by considerable success; but to-day not one of these cruisers remains. In the handling of submarines Germany has achieved more success than in other naval operations. The various

success that in other havat operations. The various naval incidents of 1914-15 are recorded in the Chronicle of the War, 1p. 717-726.

Mazarenes, a sect of Jewish Christians who accepted the dignity of Clinist and flourished in the 1st century. Masarites, persons who, as prescribed in Numbers vi., consecrated themselves for a limited period to sacred observances.

Nearctic Region comprises the whole of North America and Greenland up to a latitude averaging

about the tropic of Cancer.

Nebulm, imminous celestral masses of gaseous matter, which are either spiral or chaotic in form, the latter being the earlier stage of the former. They are visible through the telescope beyond the limits of

visible through the telescope beyond the majors of the solar system.

Nebular Theory (or Hypothesis), was originated by Kant, developed by Sir William Herschel, La Place, and others, and is now generally accepted by astronomers. It supposes that the solar system is built up by the condensation and cohesion of

Mccromancy, "the black art," was in olden times much beheved in, and was supposed to be an occult power by which its practitioners could converse with the spirits of the dead in regard to the future. Meedia Gun—the ignition of the charge of which is

produced by a fine steel rod or needle being pressed through the carridge—was invented in 1807, and in 1836 was adopted to the breech-loading practiple. It was used with great effect by the Frussians in their wars against Demmark and Austria in 1864 and 1866, but has since been superseded by weapons of greater efficiency

Reedles, according to Stow, were first made in England in the reign of Elizabeth, and in Mary's time "there was a negro made fine Spanish needles in Cheapside, but would never teach his art to any." In modern times the manufacture of this useful

In modern times the manuacture of this userul article has been greatly improved and immense numbers are made now at Redditch.

Negroes, are the black-skinned, woolly-headed Negroid races, natives of tropical Africa, or descendants from such natives. The people of the Soudan, Seneganibia, and of the great lake regions are the truest types, though it is customary to call Kafirs, Zulus, and other blacks negroes. There are pearly now now propercy in the United Street. nearly 10,000,000 negroes in the United States.

Negus, the name given to any inixture of wine and water, and said to have been named after Colonel

water, and said to have been named after Colonel Francis Negus about 1714. The sovereign of Abyssmia was styled the Negus.

Neison Monument, in Trakigar Square, London, is a handsone column 145 feet high, with the figure of Nelson on the top, erected in 1843 at a cost of 54,5000, the four brunze lions at the corners of the base being contributed some years later by Landseer. There are four bronze reliefs representing respectively the bartles of the Nile, St. Vincent, Copenhages, and Trafelgree. hagen, and Trafalgar.

Mematus, a genus of insects of the willow-fly family, widely distributed and springing from lava, which reside in small protuberances on the leaves of the

food-tree.

Nomean Games were instituted at Nemea in honour of Archemorus, and revived in 1226 B.C. They were celebrated every third year, and were finally given up in A.D. 396. The conqueror in contests of strength and agility was rewarded first with a crown of olives, and later with wreathed

chaplets of parsley leaves.

Neogene, a geological term referring to the later
Tertiary formation in contradistinction to the older

Eocene strata.

Moophrom, a genus of sulture, the leading representative of which is the Egyptian vulture. It has a white splumage with black prinates, a bare head, and is about two feet long. Other members of the family are the Scavenger vulture of India and the Africa Pilested vulture.

Africa Pileated vulture.

Meoplas@onlasm, a pulsoophical system originated in the grd century, and considerably developed in succeeding centuries by Plotinus, Proclus, Hypatia, and others, the first mamed being its most active exponent. At first it was pure paganism decked out in philosophical trappings, but in its later pliases was largely influenced by Christianity. The Neoplatonist contended that by concentrating the numd exclusively on higher speculations it was possible to achieve a condition of ecistasy in which the Infinite would be revealed. They were suppressed in the 6th century under Justinian.

would be revealed. They were suppressed in the 6th century under Justinian.

Neotoma, the scientific name of the wood-rats of North America; they are of large size, have thick fur and include many species. Neotoma cnerus has a squirrel-like bruish; the rest are rat-tailed.

Nepotism, a term indicating a bestowal of office or patronage amongst relations, and having its origin in the custom of certain Popes to enrich their family out of the offices of the Church.

Nepturne, the most distant of the planets, estimated to be about 2,780 millions of miles from the sun, and taking about 160 years to make a revolution round

taking about 160 years to make a revolution round that luminary.

that luminary.
Mesokia, a genus of Asiatic rodent of the bandicoot (amily, possessing a nearly naked tail.

**Exokia bandicota; the "pig-rat," often exceeds a
foot long.

**Mesotragus, a sub-family of small but exceedingly
graceful antelopes found only in Zansibar and

Mozambique.

body. They were followers of Nestorius, who was a petriarch of Constantinople in the 5th century. He taught that Christ was both human and divine, receiving His divinity from God and His human nature from Mary. There are still some Nestorian communities scattered about the world, principally in the Levant, though some few exist—more or less isolated—in America and even in London.

isolated—in America and even in London.

Nests are, strictly, habitations formed by birds for the reception of their eggs and the hatching and rearing of their young. They are of the most varied character, some being mere resting-places on the ground, while others display a remarkable skill in construction. Thus, the bower-bird and other species show very distinctive peculiarnties. The most usual materials for bird-nest building are leaves, twigs, moss, wool, feathers, mud, clay, etc. Some birds burrow in sand-hills. A few mammals and certain fishes also build nest-like structures for breeding in.

Nethinim, an order of hereditary attendants upon the Levites in the services of the second Hebrew Temple at Jerusalem.

Meuroptera, an order of insects which includes

Neuroptera, an order of insects which includes dragon-fles, caddis-fles, may-fles, and other four-winged species. The larve have six-jointed legs.

quently given to the seemingly illimitable plains of Northern Australia. Who comed the phrase is not known, but it was first uttered on a London stage by Sir H. Beerbohm Tree in the character of "Captain Swift," the gentlemanily Australian bushranger. The late Wilson Parrett used it as a title for both a play and a novel. It is also prominently used in Mr. J. M. Barries Christmas play, "Peter Pan." In the early "eighties" of last century Messrs. Sampson Low and Co. published a book with the title of The Never-Never Land: A Ride through

Northern Queessland.

Newgate Prison, now pulled down and replaced by the handsome Sessions House opened in 1907, was situated near the point where once stood one of the old London city gates. There is record of a prison upon this spot in the 13th century. Later a new one was built by the executors of Sir Richard Whittington, but this was destroyed by the Great Fire in 1666. Still another new prison on this site was erected between 1778 and 1780. In the Gordon Riots of the latter year it was destroyed by fire and re-erected. It was disused as a prison after 1881.

New Lanark, in Scotland, was the place where Robert Owen established his socialistic factories and settlement in the early part of the 19th century. At first the scheme seemed to promise great success, but after a few years it had to be abandoned.

News Letters were an early form of newspaper, popular in the time of Charles II. They consisted of tems of news and gossip collected at the various coffee-houses and other places of public resort. They often included blank pages on which readers

could write their private letters.

Newspapers did not come into existence before the early part of the 16th century, when, in Italy and the early part of the 16th century, when, in Italy and Germany, one or two crude attempts at news-sheets were made. In 1622 and 1643 certain publications giving news were issued, but the Publick Intelligencer, established in 1623 by Sir Roger L'Estrange, was the first real English newspaper. It lasted three years, and was succeeded by the Gazette. The Morning Post is the oldest of existing English newspapers, having been started in 1722. The Timer, under its first title of the Lendon Daily Universal, under its first title of the Lendon Daily Universal. under its first title of the London Daily Universal Register, was begun in 1765 and has been called by its present title since 1788. The first London evening paper was the Globe, begun in 1802. There are now over 5,000 newspapers, magazines, and periodicals published in the United Kgadom. New Style, of calendar reckoning, was adopted in Great Britain in 1751. (See Calendar.)
New 5, the name of a small British amphibian or lizard shape and mottled markings. The largest species, the Triton cristatus, often attains a length

species, the Triton cristatus, often attains a length of 6 inches.

New Testament, (See Bible.)

New Year's Day, the opening day of January.

The first New Year's festival of which we have recorded that constituted by Numa 713 B.C., and dedicated to Janus.

Nexum, an ancient Roman term indicating a ceremony of legal transfer by which a debtor unable to satisfy a debt became the creditor's bondman.

satisfy a debt became the creditor's bonoman.

Mibalungen-Lied, the German epic of the 12th century comprising numerous mythical poems or agas of which several English translations exist. These poems have been utilised with great effect as foundations for Wagner's famous series of operas comprised under the general title of "the Ring of the United States." the Nibelungen.

Nicena Creed, a summary of the principles of Christian faith, was first issued in 325 after being dawn up by the Council of Nice, and was meant to

thwart the Ariaus, and assert the godhead of Christ. of a statue or other special ornament. Such niches are numerous in the older ecclesistical buildings, and usually contain the brures of saints or historic

personages.

Nickel, a white ductile metal forming one of our most useful alloys, being largely used in the manufacture of German silver, and also for coinage in

merica and France.

Nicolaitanes were a religious sect supposed to have originated with Nicholas, one of the first seven deacons of the Christian Church, and are mentioned in the second chapter of the Revelation They denied the divinity of Christ.

Nicolo, a large brass reed instrument, common in the 17th century, but superseded by the bassoon, often alternately called an "onicolo."

Nicotine, an alkaloid substance contained in the tobacco plant. It is a clear, colourless oil and highly poisonous, paralysing the nerves. In the act of smoking tobacco, however, only an infinitesimal

quantity is absorbed in the smoke.

Niello Work was in considerable vogue in the Middle Ages, and is said to have suggested the idea of engraving upon copper. It was produced by rubbing a muture of silver, lead, copper, sulphur, and borax into engravings on silver, and some highly decorative results were obtained. The process is

decorative results were obtained. The process is still largely practised in Russia.

Might-Haron, sometimes called the night-raven, is a vatiety of heron of which only one spoces is known in Europe. It is an occasional visitor to Britain. It has a long white crest. In spite of its name its habits are not specially nocturnal.

Nightingala, a familiar singing bird which visits the southern counties of England every summer, and is sometimes found as far northas Yorkshire. It is ashy bird, not often seen, but the song of the male, usually heard in the late evening or at early morn, is of remarkable sweetness and variety. After its wooing period is over its song ceases.

wooing period is over its song ceases.

Night-lar, the popular name of the goatsucker bird. (See Goatsucker)

Nihilism, in metaphysics the doctrine which rejects all belief that is unsupported by physical evidence.
"Of positive or dogmatic nihilism there is in modern
philosophy no example," Hamilton avers.

Mihilists, members of a political organisation which finds its most numerous supporters in Russia. carry on their work in secret and appear to have representatives in all classes of society. They have been regarded as the moving spirits in many of the conspiracies and assassinations which have been so frequent in Russia during the last quarter of a centry, their activity being greater than ever during the troubles subsequent to the Russo-Japanese war. How far the Nithlists were responsible for the assassination of Czar Alexander II. in 1881, and the numerous more recent assassinations of authoritative persons (including that of the Grand Duke Sergius) wills probably never be fully known. The Nithlists will presumably remain a powerful obstructive force to autocracy so long as it exists on its present basis, for repressive measures appear impotent to crush them out of existence, and known Nithlists reside in every European capital. representatives in all classes of society. They have every European capital.

Nile. Battle of the, fought in 1798 between the English and French fleets in Aboukir Bay, and lasted from sunset of the 1st of August to the next morning. Nelson captured or destroyed the entire fleet of the enemy but two ships.

Nilgau, or Nylgau, an Indian Antelope of a blue-grey colour and a slightly humped shoulder. It is the largest of the few true antelopes indigenous to

our Eastern Empire.

Nimbus, a circlet of light depicted round the heads

Nimbus, a circlet of ignt depicted round the means of sunts or dwine personages in ancient art.

"Nineteenth Century," a monthly magazine started in 1879 by Sir James Knowles; noted for the high quality of its contents, and the celebrity of many of its countributors. Now known as "The Nineteenth Century and After,"

"Its limits an uncourage metal found in Colouthite

Niobium, an uncommon metal found in Colmabite and first called columbium by its discoverer Platchett in 1801. Its present name was given to it by H. Rose

m 1846, on re-chiscovering it

Nirvana, in Buddhism, is the condition of supreme
attainment, and involves the extinction of every form

of desire, ambition, or unrest. It is the holy state.

Nitre, or saltpetre, is now mostly manufactured by the double decomposition of sodium nitrate and potassium chloride, and forms the explosive ingredient in gunpowder, lucifer matches and certain detonating powders. It has been manufactured in Englands and 1625. As found, in certain parts of South America on

he soil, it forms a valuable chemical manure

Nitrie Acid, or Aquatorii, is a compound of nitrogen, hydrogen, and oxygen, and was first separated
by Raymond Lully, the alchemist, in the 19th contury. It was not, however, until towards the end of the 18th century that Cavendish demonstrated its

real nature. It is a ready solvent of many metals

Nitrite of Amyl is obtained by the action of
nitrous acid on anyl alcohol, and forms an effective

mittous acro or any account, and forms an encurve remetly in aliments of the respiratory organs.

Nitrogen, a non-combustible gas devoid of taste or smell, and constituting nearly four-fifths of the atmospheric air. In the 18th century Scheele separated the oxygen of the air from the nitrogen.

separated the oxygen of the air from the introgen.

Nitro-Giyoerine, an explosive yellow fluid produced by mixing small quantities of glycerine with a combination of one part of intric acid and two parts of sulphuric acid. It was first employed as an explosive agent by Alfred Nobel in 1864. It is the main constituent of dynamite.

**STATUS OXYGE 2 companied of mild apposition of the production of the prod

Nitrous Oxide, a compound of mid anæsthetic power, combining mitrogen and oxygen Discovered

power, contoming introgen and oxygen
by Priestlev in 1972.

Nizam, the title by which the old rulers of Hyderabad
were known. The first Nizam was Asaf Jah.

Nobel Prizem. These prizes, founded by the will of
Dr. Alfred B. Nobel (d. 1866), are five, each worth
about £8,000, and are awarded each year for the most important discoveries or improvements in (1) physics, (a) chemistry, (3), physiology or medicine, (4) the most distinguished literary work of an ideal tendency (5) the best effort towards the promotion of dency (5) the next enort towards the promotion of peace. Among the British prace-winners are: for physics, Lord Rayleigh and Prof. J. J. Thomson; chemistry, Sir W. Rainsay, Prof. Rutherlord; medicine or physiology, Sir R. Ross; literature, Rudyard Kipling and Rabindranath Tagore (Indian); peace, Sir W. R. Creiner. Among eminent foreign prize-bolders are Prof. Röntgen, M. and Mine. Curie, Magredi Magredi Magredian. darconi, Maeterlinck, and Roosevelt.

Marconi, Maeterlinck, and Roosevelt.

Mobility are people enjoying titles of rank. At first
the right of peerage was only territorial, but gradually men who achieved great deeds were similarly
honoured. (See Different Titles.)

Nobla, an old English gold com current in the 14th
century, and of the value of 6s. 8d. 8d.

Notes Ambrosians," a series of papers contributed by John Wilson ("Chartsopher North") to

Blackwood's Magazine in the "forties" of the last
century.

century.

Noturne, a name invented by John Field to indicate a certain kind of musical composition Suggestive of night. Chopan used the term for his nocturnes for the pianoforte; and Whistler for some of his famous

Noddy, a kind of tern or sea-swallow common on the coasts of tropical countries along the warmer parts of the Atlantic borders. It is said to be of a dull

of the Atlantic borders. It is said to be of a dull nature, hardly making any attempt to avoid capture, hence its name of "noddy," or simpleton. Anaus stoidad as the ontithological description of this bird.

Noeggerathia, the name of a genus of fossil plants found occasionally in European coal-measures; referred to the Cycads by some palæontologists, but by others placed among the ferms.

Nominalists, a sect founded by Jean Roscellinus, Canon of Complègue, in the rith century, who maintained the doctrine that general kleas only exist by the names we give them, in opiocastion to that "Realists," who contended that general ideas are real things with positive existence.

Nomogeny, a term invented by Owen to express the life which has a natural origin, as opposed to thaumatogeny, or miraculously produced life; the

theory of spontaneous generation.

theory of spontaneous generation.

Nonage, an ancient term in ecclesiastical law signifying the muth part of a deceased nerson's movable goods, which could be claimed by the clergy for devotion to prous purposes.

Nonconformists, or Dissonters, is the name given to all such religiousive as do not conform to the doctrine of the Chirich of England. Up to the passing of the Act of Unitority in 1002 they were called "Puritais." At various times the Nonconformists have been irrogously persecuted, but in later times "Purtans." At various times the Nonconformists have been rigorously persecuted, but in later times the utmost toleration has been granted to them. The oldest bodies of Nonconformists in the Presbyterians, Baptists and Independents. The Nethodists date from 1739 Throughout the world their, is a numbership of Methodists of 30,000,000, Baptists 7,000,000, Presbyterians 5,000,000, Congregationalists over a million and a quarter, and Friends over 100,000, not counting the various smaller Nonconformist bodies.

Nones were dates of the Roman calendar which fell on the 4th of each month, executing Marchi, May.

nones were dates of the romain eatenman on the sth of each month, excepting March, May, July and October, when they fell on the 7th. Monjurors were an ecclesisation party who refused to swear allegance to William III. in 1669, contendto swear augmance to william 111. in 1659, contending that James 11. had been unjustly deposed. Sancroft, Ken, and several other Bishops were among them. Although they were deprived of their benefices and subjected to double taxation they adhered to their opionos for the most part.

Non Nobla, Dominel ("Not unto us. O, Lord"), a musted cannot have as greater on the Carter and the service of the contractions.

a muscal canou, suig as agraced rubble, feasts, an old setting (by Birde, rou8) of part of Psalm cxv.

No Popery Riots, headed by Lord George Gordon in 1780, assumed a very serious character for a time. The movement had its origin in the strong discretion on the variety of many ways to the Act and a time. The movement had its origin in the strong objection on the part of many people to the Act not long before passed granting certain indulgences to the Roman Catholics. For a few days the mob terrorised London, burnt down Newgare, liberating the prisoners from that and other salls, and committing great damage, in many parts of the town. The military were called out, and in the various conflicts that ensued nearly 300 roters were killed, and the loss of property was estimated at £184,000.

and the loss of property was estimated at £182,000.

Noriolk Islanders are descendants of the mutaneers of the "Bounty" who established themselves on Pitcairn Island in 1785. The Pitcairn families in the course of the next half century became so numerous that the island was unable to support them all, so in 1856 the British Government removed them to Noriolk Island, which was stocked with sheep, cattle and horses for their benefit. The Noriolk Islanders now number about 800, two-thirds of whom are descendants of the original nutriewes. of whom are descendants of the original mutineers

of whom are descendants of the original mutineers "North Briton" was the title of John Wilkes's famous London political newspaper, in which from week to week he published scathing indictments of the King and the Government His most bitter onstaught was in "Number 45," which cherged the King with uttering falsohood's in his speech. He was several times prosecuted and imprisoned, but his paper had a wide influence for many years.

Northmen were the early inhabitants of Scandinayia, famous as sea adventurers and pirates. Their attacks on Britan and other parts of northern

Europe prior to the 11th century were often successful, and they established settlements in the islands off the Scottish coasts, and in the north of France, where they founded the duchy of Normandy, from which the Normans who conquered England in the 11th century were descended.

North-West Passage, from the Atlantic to the Pacific through the Arctic seas, has been the dream Pacific through the Arctic seas, has been the dream of navigators for centuries, and many have been the expeditions which have gone forth in the hope of making its discovery, at great sacrifice of life and money. From 1743 to 1818 the British Parliament offsæde a reward of £20,000 for such discovery, and in 1818 the offer was altered so as to provide for a payment of £3,000 to anyone who passed either 107, 1207, or 131 W long. Sir E. Parry was the first to win one of these payments. Sir John Frankins Ill-fated expedition in the ships "Erebus" and "Terror set out in 1845, and though there is little doubt Sir John effected the discovery, he and all his associates perished. Sir Robert M'Clure achieved the passage in 1850-4. Numerous later expeditions have been undertaken, including those of McClintock, Young, Markham, etc. Sir G. S. Nares took com-Young, Markham, etc. Sir G. S. Nares took command of a new expedition in 1875, in the "Alert" and "Discovery," for which Pathament voted £30,620.

Dr. Nansen in the "Fram" (1893-6) reached a point nearer to the Pole than hail ever before been attamed. Expeditions under Greeley, Capt, Jackson,
Liout. Peary, the Duke of Abruzzi (see "Aronic Exploration"), and others, have also been
more or less successful, and the North Pole and the
North-West Fassage will doubtless continue to
attract fresh adventurers, in suite of the fact that the
ice presents an impenetrable barrier to any sea
passage in that region being of practical use.

Notes and Queries," described as "a medium of
intercommunication for interary men and general
readers," was founded by the late Mr. U. J. Thoms
in 1849, and was afterwards for many years under the
editorship of the late Mr. Joseph Kinght.

"Not Proven," a verdict peculiar to Scottish law
under which, in criminal cases where the evidence not
being sufficient to fully demonstrate the charge made, nearer to the Pole than had ever before been at-

being sufficient to fully demonstrate the charge made, a prisoner is given the benefit of the doubt and set free, and cannot be retried even if later evidence of his guilt be discovered.

Notre Dame, the famous Paris cathedral, was founded in 1163, and Is one of the linest specimens of Gothic architecture in Europe. The best descriptions of the building are to be found in Victor Hugo's "Hunchback of Notre Dame."

Novargent, a substance consisting of chalk moistened with a solution of oxide of silver and cyamde of potassium, and used for re-silvering plated

Novatians were a sect founded by Novatus, a Stoic philosopher first and then a priest of Rome in

Stoic philosopher first and then a priest of Rome in the gid century, who didered from the heads of the church in regard to some minor points of doctrine. The Novatans did not stand out long, however, and set of them a re taken back into the church.

Novamber, the old month of the year originally, but from 113 B.C., when Numa added January and February, it took its present position as the 11th month.

Novam Organum, Bacon's famous work, published in 1620, in which the main part of his system of inductive philosophy was set forth.

Noyade, a mode of execution by drowning practised during the Reign of Terror in France at Nantes.

during the Reign of Terror in France at Nantes. The victims were set affoat in a boat with a movable bottom, and when the vessel reached deep water the

bottom opened and let the prisoners into the water. Numismatics, the science of coms and medals, has proved a fascinating study to many, and has resulted in the discovery of valuable historic evidence at various times. The difference between a com and a medal is that the former is a piece of money, while the latter commemorates some person or event. Numerous books have been written on both subjects.

and there are many numismaticaccieties in existence.

Nummulities are fossil foraminifere, coin-shaped, varying in size from one-eighth of an inch to an inch, and belonging to the Eccene formation. Nummulitie

limestone is the commonest of all the Tertiary rocks

m Europe, Asia, and Northern Africa.

Nun-Bird, a South American barbet of sombre colour, with white patches and markings on the head

Nune Dimittis, a familiar hymn ("Now lettest thou thy servant depart in peace") forming part of the Evening Service in the various Christian churches.

the Evening Service in the various Christian churches, Nuncio, the title given to a Papal Envoy to any Catholic State. In former times Nuncios acted as judges of appeal.

Nunnerles, convents for the exclusive residence of women who have taken the vows, are common in Roman Catholic countries, and there are still a few in Britain. The first English nunnery was founded at Folkestone in 690, and up to the dissolution of the monasteries such institutions were to be found in all parts of the countries.

parts of the country.

Nut-Hatch, a tree-creeping bird, common in various parts of the New and Old worlds, but represented in England by only one species. It has long, curved claws that fit it for climbing, and it feeds

mainly on nuts.

Nutmed, the kernel of the stone of a tropical fruit,

used as a spice and highly aromatic.

Nyctea, a kind of snow-owl of large size and white plumage found in the Arctic and Sub-Arctic latitudes of Europe, America and Asia.

Nymphma, the white water lily, dedicated by the Greeks to the water nymphs. N. lotus, an Indian species, is employed as a specific in cholera.

Nyssa, the black gum, or pepper-ridge tree of America, possessing a tough, almost unspiritable wood. The sub-acid fruit of one variety, *N. candicans*, is sometimes called the "Ogechee Linie," and used as a substitute for ordinary limes or lemons.

0

Oak, the most valuable of European timbers, re-markable for its strength and dutability. Was used for building the ships of the British fleet from the days of Charles II. to its supersession by iron. Has always been extensively used in furniture construction and cabinet work.

Oak Boys, an insurrectionary Irish party which had a brief prominence in 1763, and having for their object resistance to an Act which compelled householders to labour on the roads for a time.

householders to labour on the roads for a time. They wore oak syrays as a bidge.

"Oaks," the name of a famous rare for three-year-old fillies run at Epson two days fater the "Derby."
Oakum, the name given to loose heip and untwisted ropes, in the preparation of which prison labour is largely used in England.
Oasis, the name given to any fertile spot in a desert region. Such spots are fairly numerons on the Sahara and Lulyan deserts, and some of them are extensively peopled and successfully cultivated Oates? Plots. (See Oates, Titus, "Prominent People Soction" of Pears' Cyclopadia)
Oaths were introduced into English judicial trais in the 7th century, and are referred to in the Old

the 7th century, and are referred to in the Old Testament (Gen. xxi., 24; Exod. xxii, 11). The oath of supremacy dates from 1545. Quakers were permutted to substitute affirmations for oaths from registration and the state of t having been dispensed with.

Oats, a well-known cereal product, probably native to Oats, a well-known cereal product, probably native to Asia, but cultivated with considerable success for many centuries in Scotland and England. The United States also produces large quantities. Cakes and porridge of oatmeal are common articles of food in many constries, especially in Scotland.

Obelisk was regarded by the ancient Egyptians as the symbol of God, and as a monumental object was largely used by the Pharaohs. Twelve were transported from Egypt to Rome and set up at various

times; there is one in the Place de la Concorde, Paris; and one in London, on the Thames Embank-ment. The British Museum has two. What we call "Cleopatra's Needle" was originally erected at Heliopolis by Thothmes III., about 1500 B.C. Oberannersau, the Bavarian village where a kind of miracle play is acted in which the different episodes the Besting of Churc and divided These spirals.

in the Passion of Christ are depicted. These performances take place every ten years, and attract a crowd of visitors from all parts of the world.

on visitors run as parts of the work.

Ohl, the Japanese name for a coloured sash commonly worn by Japanese women, and tied with a large bow at the back of the wast.

Ohlt, the date or the anniversary of a person's demise; the term is used also in reference to a service of a

religious character celebrated on such an occasion.

Oblation, a gift offered in worship, referring especially to the bread and wine given by the laity

the Eucharist.

for the Eucharist.

Oblition, Act of, was the act of "free pardon and oblivion" in respect of "all treasons and state offences" committed between 1674 and 1660 (the Civil War and Commonwealth period), excepting from it the "regicales" and certain priests.

Oboa, a well-known musical reed instrument, and a leading feature of modern orclestras. It was introduced into England about 1720.

Chalités d'attle, a grong-rayined grif of Lower Silvian

Obolite Grit, a green-grained grit of Lower Silurian age and calcareous character, containing the obolus mollusc fossils, found in Russia.

Obolus, a silver coin of ancient Athens worth about a penny farthing in English. The name was also adopted for small coins in different parts of Europe in the 14th and 15th centuries; besides being applied in the 14th and 15th centuries; besides being applied to a small weight, equivalent to the sixth part of an Attic drachma. In paleontology an obolus is a fossil Linguista of the Silurian period.

Obsourantists, a term applied to persons who are adverse to the extension of knowledge and view with distrust all measures of reform and the opening up

of new lines of thought.

Observants were certain members of the Franciscan

Observance were retain members of the Franciscan order who in the 15th century adopted a midder policy than that of the monastic order, and ultimately were approved by the papal authorities.

Observatories existed in ancient Babylon and Egypt. They were erected on tunibs and temples. The most famous observatory of Egypt was that of Alexandria, erected by Prointey Soter, 300 Ec. 1 was not until the 15th century, however, that an observatory adequately equipped for astronomical investigations was built. This was at Cassel. Tycho Brahe's observatory at Unanienburg was erected in 1575. The Royal Observatory at Greenwich was completed in 1075. In recent times such institutions, public and private, on a large scale, have been erected. At his observatory at Parsonstown, in Ireland, Lord Rosse erected a telescope the nurror of which was 6 feet in diameter, and cost 4,20,00. At the Lick Observatory, California, the telescope has a 56 inch refractor, but theiargest thetro is that at the Yerkes Observatory, Chicago, which has, a tube 75 feet long retractor, but the strength uninerto is that at the Yerkes Observatory, Chicago, which has a tube 75 feet long and an object glass to inches in diameter.

**Deldiam*, a form of volcanic rock of vitreous structure, and usually a bilicate of aluminium, lime,

magnesium, etc.

magnesium, etc.

Ocarina, a simple kind of musical instrument usually made of terra cotta with a whitete mouthpiece and finger holes. It has a rather liquid sound, and played by an expert is pleasant to listen to.

Ocoulastion, in astronomy, refers to the concealment of a celestial body by the passing be 'are it of some other heavenly body. The most frequent occultation is that of a fixed star by the moon.

Ocoulsiam, originally the practice or study of the occult sciences, including alchemy, astrology, magic, necromancy, etc.; but in recent times referring only to theosophy, spiritualism, palmistry and so forth.

necromancy, etc.; but in recent times referring only
to theosophy, spiritualism, palmistry and so forth.

Genan comprises the great body of water which
covers five-eighths of the surface of fine earth, and
has an average depth of two miles.

Genan Currents are well defined streams running
over certain portions of the occean and caused in
various ways. Usually the currents run in the direc-

tion of the poles from the equator, and by a natural counteraction currents are set up in the opposite direction. The ocean current with which Europeans are most familiar is the Gulf Stream.

Ocean Monarch, the name of an emigrant ship which left Liverpool for Boston on 24th August, 1848, with 400 persons on board. She took fire off Great Orme's Head and 178 people lost their lives.
Ocelot, usually called the leopard cat, is common in the more Southern parts of the United States, in Mexico and Brazzl. It is about 4 feet in length, including tail, and of a grey or tawny colour, and spotted. It is very destructive to weaker animals, but does not devour them. contentmy itself with but does not devour them, contenting itself with sucking their blood.

Sucking their nood.

Ochres, the name of a number of natural earths
impregnated with nuneral colourings, cheefly slide
and alumina. They include run ochre, yellow ochre,
and plumbic ochre, being respectively oxides of
from and lead. Ochres are largely used in the
making of paints.

Octagon, in geometry, is a plane of eight angles and eight sides, and is a regular octagon when all the sides and angles are equal.

Solves and agrees are equal.

Octahedron, in geometry, consists of a solid figure
bounded by eight transgular faces.

Octaren, the name given to the kings of the English
heptarchy, Hengat (455) being the first, and Egbert
(800) the last.

Octastyle, in architecture, is a term applied to an eight-columned portico such as that of the Parthenon

Octateuch, meaning a collection of eight books, is a term generally applied to the first eight books of the Old Testament.

Octave, in music, is the interval between one note and the eighth note from giving a perfect concord.

October, the roth month, but the 8th in the old Roman

calendar. It was held sacred to Mars.

Octopus, an invertebrate fish of the Cephalopoda group, sometimes called "the devil fish," has eight arms covered with suckers, and a head with horny jaws and large globular eyes. It is very common in the Mediterranean.

the Medikerranean.

Octrois are special taxes levied on articles of food before entering a city. They have been established in France from early times, and still exist, though at various periods they have been suspended.

Ocuba. Wax, a vegetable wax used in Brazil in the manufacture of candles, and obtained from the fruit

of Myristica ocuba.

of Myristica octoba.

Oddfallows, the name of a prominent friendly society whose headquarted are at Manchester. It existed in the 18th century as a social club, but was reorganised on its present basis in 1814. It has now nearly 5,000 lodges, and a membership (including the juvenile branch) of close upon a million, with a capital exceeding twelve million pounds sterling.

Odes were originally extempore compositions sung in Odess were originally extempore compositions sung in honour of the gods by the ancient Greeks and Romans. They were glivided into three sections: strophe, antistrophe, and epode. All the most amous ancient odes—of Anacreon, Findar, Horace—were composed before the Christian era. Among the best known English odes are those of Mikton, Dryden, Collins, Gray, Wordsworth and Keats.

Odeum, a small theatre for the recreation of musical compositions, generally contiguous to a larger public theatre; thus the odeum of Athens in classic days adjoined the theatre of Bacchus.

Odomates, an instrument for measuring distances

adjoined the instant of measuring distances travelled by wheeled vehicles. Such apparatus have been known since the 17th century, but have been greatly improved in recent years, as instance the taximeter.

Odontograph, a term in mechanics signifying an ingenious listrument enabling engineers to design and lay of infinitely the teeth of gear-wheels.

Odontography, a description of the teeth and the natural phenomena of dentition.

Odontology, the science of the teeth, is but of comparatively recent growth and includes odontography and the study of dentition.

Odour of Sanctity, a phrase which originally

expressed the belief that the corpse of a holy person emitted a sweet odour, while that of an unbaptised person gave forth an evil odour; the term is now employed figuratively of the reputation.

employed nguaravely of me reputation.

Odryma were a Thracian race who maintained their
independence of the Persians for a long period,
until Philip II. of Macedon subdued them about
343 B.C. They ultimately became absorbed in the

anni ramp 343 R.C. They ultimately became approach Roman Empire under Vespavian.

Odyl, Baron von Reichenbach's name for a supposed magnetic force developed by the material universe in general, and variously termed odic force, odylic force, etc. It has not met with scientific acceptance. force, etc. It has not met with scientific acceptance.

Odyssey, the famous epic poem setting forth the incidents of the wanderings of Ulysses on his way back to Ithaca after the Siege of Troy.

Goumenical Council, one of the general councils of the Eastern Church, the first of the character of historic importance being that of Chalcedon in the 5th century.

Cil-de-Bouf, a term in architecture denoting openings, usually round or eval, in friezes, roofs, or domes of buildings, designed for the admission of light.

Ogham, an aucient style of Irish or Celtic writing consisting of characters formed on either side of a straight line drawn on wood or stone, not used later than the oth or roth century.

Ogulnian Law, the passing of which was secured by the two Tribunes (guinius, BC 300, had the effect of increasing the number of the Pontiffs and Augurs, and conceded eligibility for those offices to Plebeians.

Otyges Deluge, occurred in 1764 B.C., inundating Attica to such an extent that the country lay waste for nearly 200 years afterwards. It takes its name

for nearly 200 years atterwards. It takes its name from King Okyges, who reigned at the time.

Ohm's Law, was propounded by Dr. G. S. Ohm, and determines the quantity of the electro-motive force of the Voltaic battery. It is in accord with the discovery that the earth can be utilised as a conductor, and obviates the employment of a return white its electron believer by when we but up to f wire in electric telegraphy. An ohm is the unit of esistance in electro-magnetics.

Oldium, the botanical name for a fungus, a variety of which is found on the grape-vine, causing what is known as the "vine disease." Another variety, known as the "vine disease." Another variety, Ordium lacts, generates on the surface of sour milk; while yet a further form, Ordium alloicans, develops, in certain unhealthy conditions, aphthæ in the human mouth

Oll Cake has in recent years come into great favour as food for cattle. It is made from linseed, rape, and cotton seed, after the list have been extracted, and a very fattening

Oil Gas, a combustible gas obtained by the de-composition of oil, yielding a brilliant light, and largely employed for illuminating purposes.

Oils are of three classes, fatty or fixed oils, volatile or essential oils, and mineral oils. Fatty oils are of essential oils, and innered oils. The oils are used in the manufacture of soap, for lubricating purposes and for illumnation. Volatile or essential oils are obtained by distillation and are used mainly for essences and colouring mediums; mineral oils are mostly used for producing artificial light, and are being largely utilised as oil fuel. Oil was used in lamps in the time of Abraham, and the references to it in the Old Testament show that the Jew used special oil for anounting kungs, priests, and other high personages. Numerous expenments have been made with oil for calming turbulent waves, and a certain success has attended these experiments. (See Patrol, Petroleum.)

Jibway Indians are a renowned tribe inhabiting the great lake districts of Canada. At one time they were very waithe and gave much grouble to the Government, but in recent years they have become largely civilised and live in prosperous settlements. Oibers' Commet was discovered in first by Oibers the German astronomer. Oibers also discovered the asteroids Pallas and Vesta, the former in 180a and the latter five years later.

Jid Batley, the name generally given to the Sessions Court, adjoining Newgate Prison, for the Jews used special oil for anounting kings, priests, and

trial of criminals in the City of London and throughout the county of Middlesex. There are eight sessions held during each year at what is still styled the "Old Bailey." The judges appointed to try cases are the Recorder and the Common Serjeant, one or more judges of the High Courts, the Lord Mayor and such aldermen as have passed the Chair. The Court House has recently been entirely rebuilt on a handsome and substantial scale.

old Believers, a term applied to a Russian sect which separated from the Greek Church in 1654 in opposition to the Patnarch Nicon. They are said

now to number over twelve millions.

Old Catholics are the German Catholics who declined to accept the dogma of papal infallibility, and now form an independent sect. Professor Döllinger of Murich was their first leader, and Père

Dolinger of Murich was their first leader, and Fere Hyackinthe (Charles Loyson) has been the principal exponent of the party in England and Switzerland. Old Red Sandstorne is a geological term for the group of rocks lying below the Carbonierous formation. It has three series: the Upper, Lower, and Middle Devonian, all rich in fossils. Another name

Middle Devonian, all rich in fossils. Another name for this group is the Devonian formation.

Oleflant Gas, or ethylene, is obtained by acting on ethyl alcohol with concentrated sulphuric acid or phosphoric acid. It is present in coal gas to the extent of about 6 per cent. It is a hydrocarbon and burns with a luminous fame.

Oleflace, a series of hydrocarbons, in which the hydrogen atoms are double the number of those of carbon. The first member of the series is oleflant case. Oleflace different marging in that they com-

carbon. The first member of the series is orenzanges. Olefines differ from parafins in that they combine directly with the halogens and the haloid acids,

which paraffin will not do.

Oleio Acid, a promnert element of numerous fats and olis abounding in those obtained from the olive almond, and smallar firmt. It is styled an organizacid and contains oxygen, curbon and hydrogen, and is much used in the manufacture of certain soaps

Delin, a colouriest oil obtained from animal and vegetable fatty oils, and very widely distributed. It is not found in a pure state, and is soluble in alcohol and ether, but not in water.

and ether, but not in water.

Oloographs, the name given to reproductions of paintings in oils, the colours of the original being more or less taithfully copied. The process is one that closely resembles chrome-lithography.

Oloo-Margarine, a sold fat of a yellowish colour, obtained from the leaf-sta of cattle. This fat is submitted to certain patented processes and put on the market as margarine, a substrute for butter, which it closely resembles in appearance and to some extent in flavory of oil. See Hydrometer.

Oleometer, an instrument for ascertaining the specific gravity of oil. See Hydrometer.

Oleon Laws are supposed to have been passed by Richard I. while on the Island of Oleron, of the coart of France, in roya, and have reference to the com-

of France, in 1194, and have reference to the commerce of the seas.

Olibanum, a resinous gum obtained from the trees of the Boswellia geinis, grown in Somaliland and India. It is of an aromatic order, and used as incense

Olivenite, a mineral of an olive-green colour, oc-curring in crystals lying near copper ore. Scienti-fically it is an arsemate of copper

Olives are the fruit of the olive tree which grows so abundantly in Italy, and which in recent years has been cultivated with considerable success in Southern California and Australia. A stone fruit; in sts unripe condition it is largely used for pickling purposes. Olive oll is obtained from the pulp of the

in sts unripe condition it is largely used for pickling purposes. Olive oil is obtained from the pulp of the fruit, and is the lightest of all fixed oils.

Olivine, a chrysolite, is a nineral of a pale green colour, found in volcanic rocks and meteorites. It is essentially a double silicate of iron aid magnessium.

Olia Podrida, a sort of Spanish "haggis," combining in a stew a number of meats and vegetables,

Olympiads were periods of four years, the era of the Greeks and originated in 776 B.C., this method of computation lasting until A.D. 440, when the 205th Olympiad ended. Olympiad ended.

Olympic Games, instituted in honour of Jupiter by the Greeks, were held every 5th year at Olympia in

the Peloponnesus. These ancient festivals continued, with intergals, from 1942 B.C. to A.D. 394. © Dympjedium was the name of the famous Temple of Jupiter erected near Peloponnesus by Libon, after the conquest of the country by the Eleans. A colossal statue of Jupiter in gold and ivory was executed for this Temple by Phildias.

Omacantha, a genus of beetles of the sub-family Lamune, one very large species of which is the Omacantha gigar of the Gold Coast.

Ombromatas, an instrument for granging the death

Ombrometer, an instrument for gauging the depth of rainfall.

Omega, the last letter of the Greek alphabet, and widely adopted in literature in its figurative sense as

indicating the end of anything.

Omens are auguries or presentiments of some coming Omens are augures or presentiments of some coming event, usually something evil. In olden tunes onnens, portents, and signs were seriously regarded, and among the Greeks and Romans emanated chiefly from the priests or augurs who were supposed to be the recipients of the warnings of the god Omeniades, the name of a dynasty of Mahomedan caliphs, fourteen of whom reigned in Arabia 661—751, and eighteen at Cordova in Spain 754—1031.

Omnibus, a public four-wheeled vehicle for convening bassengers along certain routes at succified

remains a public four-wheeled vehicle for con-veying passengers along certain routes at specified fares. A few carriages of this kind were seen to-wards the end of the 17th century in Paris, but did not become popular until revived in that city in 1828, 12 abs 621 hours. not become popular until revived in that city in 1828, In the following year the first English omnibus was started in London, its running being between Paddington and the Bank of England. The idea quickly extended, and in the course of a few years, general services were in operation. The London General Omnibus Company was established in 1856, and the London Road Car Company began operations in 1883. Motor omnibuses are now a prominent feature of town transit everywhere, the old horse omnibus having almost entirely disappeared from the streets of I ondon. streets of London.

Omnimater, an invention for superseding chain measuring and combining the theodolite and level. It was introduced in 1869, and is the invention of a German engineer named Eckhold.

Omnipotent Act, the name given to an English law passed in 1664, which provided that judgments and executions in Civil cases should not be stayed

and executions in Civil cases should not be stayed except upon recognisarce. It received its name from granting the Courts such extensive powers.

Omnivora, the scientific name of the hog tribe of non-runinants, ranging from pays to hippopotani.

Onafor, the wild ass inhabiting the mountain districts of Central Asia, and valued as food by the Persians.

One Pound Notes were issued by the Bank of Ingland in 1797 and remained in circulation until 1823, when they were withdrawn. A further issue took place in 1825 but listed only a short tune.

Onus Probandi, a legal term signifying that the onus of proof resits on the party or side indicated. This obligation of proof generally devolves upon the supporters of an affirmative.

Onyx, a kind of agate or quartz having its colours

Onyx, a kind of agate or quartz having its colours arranged in parallel layers. Onyx cuts and polishes well, and is much used for cameos.

well, and is nuch used for cameos.

Olitic Formation, a geological term indicating
beds of secondary rocks lying immediately below the
Necomian formation, and existing through a long
stretch of country extending from Yorkshire to
Dorsetshire. It abounds in fossils of molluces and
repules. Portland is a typical stone of colite or rocstone formation.

Oolitie Structure occurs in linestones, and com-prises very small rounded grams, suggesting the ro-of a fish, or the spherical seeds of certain plants; each grain containing a minute central nucleur, round which the component carbonate of calcium has

been deposited.

been deposited.

Opah, a kind of deep-sea fish remarkable for its delicate colouring. It has scarlet fins, and starry silver spots, with iliac and rose-coloured interminglings. It is an inhabitant of the Atlantic and averages from three to four feet in length, sometimes being called the "Kingfish."

Opals are mineral substances, consisting of silica-like

quartz, and are of numerous varieties and colours, ranging from white to brown and green. Some have a vitreous lustre and transparency which constitute what is called "opalescence." Opals are in great

what is caned oparescence. Open at an arrangement of a polymer of a polymer open on the dominating feature, and have been one of the leading. cominating feature, and have been one of the leading forms of anusement in modern times. There is a record of French opera performed as far back as record of French opera came into being towards the end of the 18th century, and in 1600 an opera on the subject of Eurydice was given at Florence on the marriage of Marie de Medicis and Henry IV. of France. Louis the XIVth set up an opera in Fain 1672. Scarlatti was the most prolific producer of operas of the 17th century. About 1684 a species of opera was being performed in London under the management of Sir William Daven int. In 1711 Handel's Rinaldor was produced at the Haymarket; Gay's "Beggar's Opera" was first given in 1727, and ran for 3 inghis; the operas of Mozart had a marked influence upon the development of operatic music at the latter part of the 18th Mozart had a marked influence upon the development of operation used at the latter part of the 18th century. The leading opera composers of the 19th century were Beethoven, Rossini, Weber, Donizetti, Auber, Verdi, Meyerbeer, Gounord, and Wagner, the last-named representing the most marked development that has hitherto occurred in the history of opera. Among the composers of hight operas the names of Oilenbach in France and Sir Arthur Sullivan in England rank high.

Opera Singers of Title. Maibran became by marriage Countess de Merlin; Alboni, Countess de Pepolo; Pauline Lucca, Batones von Wallhofen; Christine Nilsson, Countess Casa Miranc'a: Adelina Patt, Marquise de Caux by her first marrage, and subsequently Barones. Cederstrom; Ella Russell, Countess de Ringini; Mme. Bolska, Countess Brochocki; and Pauline Joran, Baroness de Busch.

Ophilolated, a brass unuscal instrument in the nature

Ophiciacki, a brass musical instrument in the nature of a keyed hassoon, was invented by a Frenchman named Fricinot early in the 19th contury, and it has since played a useful part in brass bands, Ophicia, a zoological term designating the order of

reptilia embracing snakes and serpents.

Ophthalmoscope, an instrument invented in 1841 by litelimiotz for examining the intern of the eye. Oplathocomides, a genus of birds with only one existent representative, the opisthocomis of South America, remarkable for its currous crest and long

America, remarkable for its currous crest and long and delicately-coloured tail.

Optum was known to the ancients, and used by them as a medicine. It is obtained from the white poppy, the unripe "head" or seed caysule of that flower yielding a juice which when dited becomes the opium of corninere. The poppy is largely cultivated in India, Egypt, Persia, and Asia Minor, for the sake of this juice, which yields various alkaloids, such as morphine, narcotine, thebane, etc. Laudanum is a tincture of opium. The Chinese are great suokers of opium, and the habit is one difficult to reinquish when once acquired In 1006 the Chinese Government proposed to the British Government an arrangement by which the importation of Indian opium into China should cease within ten years, and at the same time measures were adopted for closing opium dens in China opium dens in China

opium dens in China

Opium War, so called because it followed on the
destruction in 1840 of a number of British vessels
carrying opium into Chinese ports. The result was
the establishing of the "Treaty Ports" of China and
the cession of Hong Kong to England,

Opossum, a familiar marsurial manunal found in the

more sontherly of the United States, South America, and Australia. It has a long prehensile tail and it not much larger in size than a cat. The females possess a pouch, in which they keep their young. It is of noctumal habits, and a good

Spportunists, a term which first came into use politically in France after the Franco-German war, and referred to a section of the Republican party of which Gambetts was the leader, who held that the true political policy was not to force opinions upon the people, but to wait until circumstances favoured

the people, but to wait until circumstances favoured their advocacy.

O. P. Riota, at Covent Garden Theatre in London, lasted, off and on, from the 18th September to the roth December 180s. They were caused by the increased prices of admission which J. P. Kemble endeavoured to institute. The public declined to pay the increase, and clamoured for the old prices. Much damage was done to the theatre during this time, and the audience made it impossible for the performer, to be heart. The riots were only ended performers to be heard. The riots were only ended by the restoration of the old prices.

Optics. the science which investigates the nature and properties of light and the phenomena of colour. Prolemy wrote a treatise on optics 120 B.C., and burning lenses were known to the ancient Greeks.

burning lenses were known to the ancient Greeks. Spectacles were invented in the 19th century, and the camera obscura in the 16th century. Telescopes were not known until about 1971, and the microscope not before 1620. Among the most eminent writers on optics of modern times was Prof. Tyndall.

Optimism, the theory that every thing happens for the best, has been propounded by many fathers of the church and philosophers, from Plato to Rousseau. It is the opposite of peasumen.

Oracles were in ancient times supposed to be words spoken by the gods, and it was the custom on important occasions to consult these oracles as to the future. The Greeks had the Oracles of Zeus at Dodona, and Apollo at Delphi, while the Romans consulted the Oracles of Mars, Fortune, and others.

Drange, a fruit growing in most sub-tropical climates and in universal demand. It is grown on an ever-green tree that attains a height of about 20 feet at

maturity.

Orangemen are Irish Protestants, who derive their utine from having originally supported William III., Prince of Orange. They exist in greatest numbers in Ulster, where the Protestant religion dominates.

Orang Outang, one of the largest of the anthropoid apes, found only in Borneo and Sunatra. When full grown it stands over four feet in height, and has very long arms. It lives mostly in trees, and exists

very long arms. It lives mostly in trees, and exists on fruits, buds, etc.

Oratorians were originally an order of pries's founded by St. Philip Nerl, about 1964, and received their name from the Oratory of St. Jerome, where they worshipped. They also established themselves in France in the 17th century, and in England in recent times the Oratory at Brow 10th, where Father Faber and others have ministered, serves in a measure to commonance the earlier order. measure to commemorate the earlier order.

Oratorio, a sacred musical drama, performed without scenic aid, originated with St. Philip Nen, without scenic aid, originated with St. Philip Ner, and from about 1520 to the early part of the 18th century this class of composition was not known out of Italy. In 1728 Handel's Oratorio "Israel in Egypt" was performed, and the "Messahir" in 1741. Other great oratorios have been Haydn's "Creation." Beachoven's "Mount of Olives," Spohr's "Last Judgment," Mendelssohis "Elijan," and Costa's "Eli."

Drbit indicates the course of a planet round the sun. All the planetary orbits are ellipitical.

Orbhestra, a band of instrumental performers, either attached to a theatre or opera, and occupying a position close to the stage, or a separate band of orchestral performers engaged to interpret musical compositions apart from vocal illustration. A properly organised orchestra comprises stringed, wood, brass, wind, and percussion instruments. wood, brass, wind, and percussion instruments.

wood, praes, wind, and percussion assuments.

Orein, a colouring natter obtained from lichens. It
assumes a deep blood-red colour when dissolved in
aumonia, and in this form it is called "orcein."

Ordeals, or trais by ordeal, were known in England in the time of the Saxons, and existed down to rars, when they were abolished. The ordeals were usually of are, water, or poison The accused would be set when they were abousned. The ordens were usuany of fire, water, or poison The accused would be set to handle red-hot iron, be cast into water, or made to partake of poison, and unless he could withstand these tests he was condemned as guilty.

Orders. (See Knighthood.)

Orders. Holy, in the Roman Catholic church are of seven kinds, extending from door-kepeers,

exorcists, readers, and acolytes, in the minor class, to descons, priests and bishops of major rank; while in the Protestant churches there are only three-deacons, priests, and hishops.

Orders in Council are such as are issued by the Sovereign as a result of the deliberations of the Privy Council.

Proy Council.
Ordination, the ceremony of installing ministers or clergymen in clerical offices, has existed from the earliest times. In the Anglican and Roman Catholic Churches the rites of Ordination are performed by Bishops; among Nonconformists the power of ordination rests with the governing bodies of the different churches.

power of ordination rests with the governing bodies of the different clurches.

Ordnance Office was an old Covernment department entrusted with the su-ply of weapons and materials of was from the time of the archers to the days of guns and explosives. After the Crimean campaign, when the administration of the Ordnance Board was shown to be very defective, the office was abolished, and its duties vested in the War Ministration of the Ordnance Survey, an authorised survey of Great Britain, entrusted to a special body of Royal Engineers and clvillian experts, by whom maps and charts are from time to time produced, showing the full details of the geographical, geological and industrial condition of the country. The scale adopted for counties is 6 inches to 1 mile, and 1 inch to 1 mile for the general map of the kingdom. In 1890 the Ordnance Survey was placed under the direction of the Board of Works.

Ordonnances were special laws enacted by the

Ordonnances were special laws enacted by the French kings prior to 1769. They were issued in the name of the king, and had the effect of Acts of Parlament. It was the revival of ordonnances by Charles X. that led to the Revolution of 1899.

Charles X. that led to the Revolution of 1830.

Oras are metalliferous deposits of rock from which, under the process of smelting, the metallic element is separated from the useless material. Ores are found in layers or beds, and are classed as oxides, which contain fron, tin and copper; and carbonates, such as iron, copper, zinc, and lead.

Organs are said to have been invented about 250 B C, and form bight remarks a thorative at the said.

and form a highly scientific adaptation of the primitive pandean pipes. The instrument began to be used in churches in the 7th century, from which time it became the most prominent musical feature of Church became the most prominent musical feature of Church services. Among the largest organs in the world are the following:—that of Haarlem, which has 60 stops and 8,000 pipes, the Allert Hall organ, reg stops; the St. Ceorge's Hall (Liverpool) organ, 110 stops; one at St. Louis, America, 150 stops; and one in the Sydhey I own Hall, 120 stops.

Orgies were originally secret celebrations in honour of Bacchus, and noted for the wild heense di-played by the celebrants.

Orginalization as musical instrument composed of

orgaineste, a musical instrument composed of reeds which are played upon by a bellows. A strip of paper passes over the loles of the reeds, moved by a crank, and the paper is cut into holes to represent the required sounds. As the rollers turn the bellows the melody is "ground out."

Ortel College. Oxford, derives its name from a building called "l'Oinole" which stood on its site; was

founded by Archdeacon Adam de Brome in 1326.

Oriel Window is a window projected from the front of a building, and may be rectangular, tragonal, or pentagonal. The ordinary bay window and bow window are varieties of Oriel. When an Oriel window does not reach to the ground it usually rosts upon moulided sills supported by corbels.

Orientalists, an association of Oriental scholars, who from tune to time hold meetings in congresses in different European cities. The first international congress of Orientalists was held in Pans in 1873. Others have since been held in London, Berlin,

Vienna and other cities.

Vienna and other cities,
Orlflamme, the name of the original banner of the
abbey of St. Denis, and adopted by Louis VI. as his
standard, and remained the national emblem of
France for three centuries. The fing was of red silk,
the outer edge being cut in the form of fiames.
Origanists, a sect of religionists who were followers
of Origen who lived in the 3rd century. They

believed that men's souls were created before their bodies, that the celestial bodies had souls and that Christ was the Son of God only by adoption and grace. The Council of Constantinople in 533 condemned Origen's doctrines.

**Origin of Species," the title of Darwin's famous work-by many considered to be the most important book of the 19th century—which was first published on November 24th 19th.

book of the 19th century—which was first published on November 2th, 1839.

Oriole, a beautiful family of birds of the Passeres order, including the Golden Oriole, which is familiar in Central Europe in the summer, and sometimes gets as far as England. The male is of a bright yellow plumage, with black wings and tail. There are several varieties of oriole in America, all of them showing the same distinctive colorations. showing the same distinctive colorations.

Orlon, a famous constellation of the heavens, com

Orion, a famous constellation of the heavens, comprising nearly a hundred stars, all visible to the naked eye. It contains three stars of the second magnitude in a line, and these are called "Orion's Beit."

"Oriando Furicoo," the title of Ariosto's famous epic poem, describing the doughty deeds of Oriando and other knights of the Charlemagne period. It was written in the 16th century.

Orieanist, members and supporters of the House of Orieans, of which King Louis Philippe was a member. The present chef representative of the family is the Duc d'Orieans, who resides chiefly in Brussels.

Ormola, a specially treated form of brass which assumes a gold colour and is largely used for decorative purposes, metal mountaings and furnishings.

Ormulum, a version of the gospels and acts made by

Ornulum, a version of the gospels and acts made by Orn, an ecclesiastic of the rath century. It is metrical and exists in manuscript in the Bodleian Library. Ornuza, the spirit of good according to the Zoroas-

trian religion, represented as eternally warring against evil and personating purity of life.

Ornithology, the branch of Zoology which treats of the structure and habits of birds.

the structure and habits of birds.

Pratthorbynachus, an aquatic bird, curiously mammalian in general structure, but oviparous, of which but one species is known, the Duck-bill or Water-mole of Australia and Tasmania.

Prphray, the name of an ornamental border of gold and silver embroidered on ecclesiastical vestments, upteding the colour known as "king's yellow."

Prery, an instrument by which the motions of the heavenly bodies are indicated. It consists of a globe encircled by a brass meridian line, and was the invention of Charles Boyle, the grid Earl of Orrery.

Many improved developments of this machine have been made in recent times. been made in recent times.

orris Root, the dried root or stem of a species of iris common in Southern Europe. It has medicinal uses, and is esteemed for its perfume and its utility in tooth-powder composition.

Orthotomus, a dainty little bird of the warbler kind including the tailor-birds. They inhabit Java, Sumatra, and Borneo, and have a doesn species. Ortolan, a graceful bird of the bunting family, native to Southern Europe, and an occasional visitor.

to England. It is greatly esteemed as an edible delicacy.

delicacy.

Osborne House, near Cowes, in the Isle of Wight, Queen Victoria's favourite winter residence, and where she died, is now used as a convalescent home for naval and military officers, having been presented to the nation by King Edward VII.

Osalia, the name given to a medal yearly struck and distributed by the Doges of Venice from garly in the 16th century to the close of the Republic. It was of gold or silver, and was inscribed with the name of the Doge, the year of issue, and generally bore some symbolic design.

Oslera, a species of willow growing in damp soils and yielding branches utilised in basket-making.

Osmatum, a metal of the platina order and one of the

yielding branches utilised in basket-maxing.

Samium, a metal of the platina order and one of the
heaviest of known metals. It is obtained from the
platina of South America, California, Australia and
Russka, and has not hitherto been fused. The chief
commercial purpose to which it is put is that of
providing the tip for gold pens.

Osprey, a bird of prey widely distributed over all

northern latitudes and a common visitor to the lakes of Scotland, where it used to build and breed. It is commonly known as the fish-hawk, and feeds almost entirely on fish.

almost entirely on fish.

Ostradism, a method of proscription adopted by the ancient Greeks, whereby sentences of banishment for ten years were voted. The names of objectionable persons were voted on small shells by the people, and these were collected in an urn and presented to the Senate, when a scrutiny took place, and the one whose name oftenest appeared was sentenced; it no one could be estracised unless at least 6,000 works were recorded against him. Ostracism ceased about 38 B.C.

Ostrich, a large African bird which inhabits the sandy plains, and is highly valued for the rich feathers grown on its wings and tail. The neck and legs are naked. The wings are useless in flight, but the birds have a ficetness of foot exceeding that of the swiftest horse. An ostrich's egg weighs 3 lbs.

the birds have a fleetness of foot exceeding that of
the swiftest horse. An ostricht's egy weight's jibs.

Ostrogoths were the Eastern Goths who flourished
in the 4th and sh centuries. Under their famous
leader, Theodoric, they founded a monarchy in
Italy in 492, but were overthrown in 533.

Otarry, the name of a kind of seal remarkable for
its external ears. It inhabits the sea-coast and islands
of America, especially those of the North Pacific.
The sea-bear and sea-lion are included in the family.

Otheosoope, an apparatus invented in 1877 by Sir
W. Crockes, for showing molecular motion, the
effects of radiation.

Ottar, an aquatic carnivorous mammal widely

effects of radiation.

Ottar, an aquatic carnivorous mammal widely distributed over Europe, and at one time very common in England and Waler. Otter hunting, indeed, is still a country sport in some districts, and a breed of dogs called otter-hounds is kept for the purpose. The otter averages about 2 feet in length, exclusive of tail, has web-feet, and is a vary expert swimmer.

Oubliatta, the name given in the Middle Ages to a secret dungeon which formed part of the equipment of the old baronial castles.

of the old baronial castles.

Ounce, a carnivorous member of the cat family, spotted like a leopard and having a long bushy tail. It is only found at high altitudes on the Himalayas, and is often called the "anow leopard."

Outlaw, one who has been placed beyond the pale of law and is not entitled to its protection. Previous to the reign of Edward III. it was permissible for anyone to kill an outlaw. In modern times, however, outlawry applies only to property.

Outsal, a bird of the thrush family, comprising the ring-ouzel and the dipper, both familiar in Britain.

Owntion was a triumph which the Romans accorded to their generals on their return after achieving ylctory, and did not amount to such a distinctive

victory, and did not amount to such a distinctive honour as a "triumph."

monour as a triumpin.

Owiparous, a coological term referring to such mammals, birds, reptiles, and fishes as bring forth eggs to be hatched outside the body of the parent.

Owis, the zoological name for the typical genus of sheep, including both the domestic sheep and their

sheep, including both the domestic sheep and their wild originals.

Ovorlyiparous, a zoological term applied to such animals as produce eggs which are hatched in the body of the parent; the viper, the scorpion, and the earthworm are examples.

Overns Collage, Manchester, now incorporated with Victoria University, was founded in 1846 by means of a bequest of £100,000 by John Owens, a Manchester merchant. Various other valuable bequests have been made to the institution, and a bandestra collage halfding was caused in the handsome college building was opened in 1873.

Ourl, the common name for a raptorial nocturnal bird

distributed over the greater part of the world. Eleven species exist in Britain, including the barnowl, the tawny owl, the long-cared owl, and the short-cared owl. Owls are remarkable for their large heads and round piercing eyes embedded in rings of feathers. They are voracious feeders and live on the smaller mammals, birds, insects, and fish.

Ox, the popular name of the mammals included in the genus Bes. They are hollow-homed ruminants and hoofed quadrupeds, and include the various classes of domestic cattle as well as the different wild species.

The adult male is called a bull, the female a cow, and the young a calf. The best-known breeds of domesticated cattle are the Durham, or shorthom, the Angus, the Jersey, Ayrshire, Suffolk and Hereford.

Oxalic Acid, an organic acid obtained from numerous plants, such as sorrel and rhubarh, and produced artificially for commercial purposes from saw dust, treated with caustic potash or caustic soda. It combines with metals to form oxalates.

saw dust, treated with caustic potass or caustic soca. It combines with metals to form oxalates.

Oxford Clay, a geological formation consisting or a bed of clay, a geological formation consisting or a bed of clay hundreds of feet thick, and forming the lower portion of the Middle Oolite series.

Oxford Univarsity was founded in the reign of Henry Ill. on the site of certain schools which were raid to have been built by King Alfred. Merton College was founded in zeo. Queen Elizabeth granted the University a Charter of Incorporation in 1570. The University has been greatly extended in modern times and has to-day in residence between 3,000 and 4,000 undergraduates. It comprises the following colleges:—University, Balliol, Merton, Exeter, Oriel, Queen's, New, Lincoln, All Souls, Magddelen, Brasenose, Corpus Christ, Christ, Church, St. John's, Trinity, Jesus, Wadham, Pembroke, Worcester, and Hertford.

Ox Gall, the fluids secreted from the gall-bladder of the ox, and used, after clarifying, for fazing colours.

Oxybaphom, an ancient Greek vase with a wide nouth and a handle on each side. The side spaces are usually filled in with figures in low reheef.

are usually filled in with figures in low relief.

Oxygen is the most abundant of all substances, gas that forms one-third of the solid earth, one-fifth of the atmosphere, and eight-ninths by weight of all water. Dr. Priestley in 1774 was the first to separate it from red oxide of mercury. It is colourless, taste-less, and odourless, and forms the chief life-supporting

lement of animal and vegetable lite.

Oyer and Terminer, "a legal term designating a commission directed to the judges of the Supreme Courts, empowering them to hear and detenting the charges of treasons, felonies and misdemeanours, in

Courts, empowering them to hear and determine charges of treasons, felomes and misdemeanours, in the counties to which they are proceeding. Courts of Assize are known as Courts of Oyer and Terminer.

Oyer! a phrase used by the Ushers of Courts of Justice to proclaim silence. It is the Norman-French word "Oyer," hear ye.

Oyster, a bivalve mollusc, of the genus Ostreee, having a very numerous species, and abounding in nearly all seas. The shell is rough and irregular, and the hody shows a very slimple organisation. Oysters are exceedingly prolific, spawning in May and June. In England and Scotland deep sea oysters are not allowed to be sold between 15th June and 4th August. In Ireland, no oysters may be taken between May six and September 1st, except in certain waters. The British supply is so greatly below the demand that large quantities are imported from America. Holland, and Portugal.

Oyster Catcher, a wateng bird of considerable size found in most parts of the world and remarkable for its habits of feeding on small oysters and other mollusces.

Ozokerite, a mineral hydrocarbon found in Moldavia and Wallachia. From it is obtained a substance from which a special class of candle is made.

Ozone, is an active modification of oxygen and contains three atoms to the molecule, while oxygen contains only two. It is only present in extremely small quantities, sea-air containing the most, and large towns none at all.

Ozonometry, the determination of the presence and properties of ozone in the atmosphere.

Paca, a genus of burrowing rodents of the Dasyproctidæ family, found only in S. America, and in
size and shape resembling the guinea-pig. It is of
nocturnal habits, has a streaked and spotted fur,
and lives on fruits and plants.

Pacific Ocean, the most extensive body of water
on the earth's surface, covering nearly one-third of

the entire extent of the globe. It is bounded on the southpy the Antarctic Ocean, and on the north by the Arctic Ocean, on the east by the Western coast of America, and on the west by Asia and Australia. Its total length is about 0,000 miles, its greatest breadth 12,000 miles, and its entire asset over 65,200,000 sq. miles. It has only been known to Europeans since 1513, and the first Engitlan navigator to cross the Pacific was Drake in 1377. In certain parts it is more than five miles in depth, and scattered here and there over its surface are innumerable islands.

Pman, the song of praise or triumph sung by the Greeks on the occasion of great celebrations.

Greeks on the occasion of great celebrations.

Panon, a foot, in ancient prosody, consisting of one
long syllable and three short; the positions of the
long syllable t-ing variable.

Pagans are hearhens or idolaters, people who do
not worship God. The Roman Senate renounced
neganism in 388, but it was not finally put an ead to

paganism in 388, but it was not many, paganism in 388, but it was not many, paganism in 1917.

Pagoda, the name giver, in China, India, and other Asiatic countries to a high pyramidal tower, usually, but not necessarily, connected with a temple.

Paleson tology, the science which is devoted to the investigation of fossil evidences, animal, vegetable, and mineral. The achievements attained in this science by the many distinguished men who have followed it have been of the most valuable kind, establishing with astonishing accuracy the orders of animal existence belonging to the various preestablishing with astonishing accuracy the orders of animal existence belonging to the various prehistoric periods. Some 50,000 species of animals and plants have been made known through the researches of palecontology.

Palsootherium, a genus of extinct tapir-like animals of large size, discovered in the Paris basin and other places, and belonging to the Upper

Encene Age.

Palsosolo, a geological term indicating the most ancient division of the strata formation of the earth's crust, and comprising two main groups, the newer and the older.

Least Indian covered vehicle

earth's crust, and comprising two main groups, the newer and the older.

Palanguin, an East Indian covered vehicle fastened to a pole and carried on the shoulders of four or six natives, now falling into disuse because of improved methods of conveyance.

Palatinates, a term formerly applied to two German electorates or provinces, the Upper and Lower Palatinates, Amberg in Upper Bavaria being the capital of the former, the latter being the Rhinsland Palatinate. They were apportioned amongst Bavaria, Baden, Hesse, and Frusain in 282.

Pale, the name given to the part of Ireland colonised by the English and comprising portions of the counties of Louth, Dublin, Meath, and Kildare. The Anglo-Saxon rulers were styled "Lords of the Pale" Palimpassis are ancient MSS. or parchments which have been partly efficed and used for fresh writings. Many valuable MSS, were thus lost, but in numerous cases the second writing has been washed out, enabling the original writings to be deciphered. Among the tressures thus restored are a dialogue of Cicero's, a portion of a book of Livy, and other.

Pallium, a vestmental ornamentation of white wool treasured by the Pone to archibehone on their

Pallium, a vestmental ornamentation of white wool

Pallium, a vestmental ornamentation of white wool presented by the Pope to archibshops on their appointment, and the sign of Papal confirmation.

Pall Mail, the name of a celebrated West London thoroughfare, called after a French ball game played thereabout in the early part of the 17th century. See Pears' Dictionary of Sports and Pastimers. See Pears' Dictionary of Sports and Pastimers, See Pears' Dictionary of Page 1988 of Sports and Pastimers, See Pears' Dictionary of Page 1988 of Sports and Pastimers, See Pears' of Page 1988 of Sports and Pastimers, See Pears' of Page 1988 of Sports and Pastimers, See 1988 of Sports and Sp

to man are obtained from them.

Palmistry, the pretended art of reading a person's destiny by the lines of the palm of the hand.

Palmitte Acid is obtained either from paim oil or solid fats, and forms a white tasteless and odeur-less subtaines. In combination with glycerine 2 forms "palmitin.

Palm Sunday, the Sunday before Easter, upon which occasion it is customary to carry palms to the churches in some countries, in commemoration of

Christ's entry into Jerusalem for the Feast of the Passover, when the people went forth to geet him with palm branches.

Pampas Cat, the wild cat of the Pampas of South America. It is of a yellow grey colour with striped

America. It is of a yenow grey consus which and exists in very large numbers.

Pampas Deer, a small but graceful deer that inhabits the South American Pampas. The males possess large antiers. There are only two species.

Pampillion, a furry kind of cloth much used in olden since as comment trimming.

- times as garment trimming.

 Panama Canal, over which Lesseps came to grief, enama Ganal, over which Lesseps came to griet, is now nearing completion, and is to be officially opened on January 1st, 1975, although shipping passed through experimentally on September 25th, 1975, the date of the 400th anniversary of the discovery of the Pacific by Vasco de Balbao. Its advantage to the United States—which up to now has had to rest content with a sea route of 12,000 or 14,000 miles separating her Eastern from her Western seaboard will be enormous, for now a canal 4g miles long will connect the two oceans. America started with an expenditure of £0,000,000, and an engagement to pay, after ten years, an annual rent of £5,000. It suchange for this she gets the writtal ownership of the canal zone, the Panama railway, the results of the chall companies' excavation and construction work, and their plant. For M. de Lesseps' original scheme a lock cantal hab been substituted, with its upper level at the middle of three alternative elevations; that is, at 38 feet above sea-level. The work is estimated to entail an expenditure, beyond that of payment to previous companies, of over £50,000,000. There was friction between the U.S. and British Governments in regard to certain treaty concessions to England, but a more friendly disposition has now developed.
- Panda, a Himalayan wild cat of a bright red colour with large ears and a low bushy tail. It is also found in Tibet.
- Pandean Pipes, supposed to have been invented or played upon by the god Pan, consist of seven reeds tuned to scale and blown into by breath from the lips of the performer.
- the lips of the performer.

 Pandex or Pandedots, a summary of the Roman civil law prepared by order of the Emperor Justiman, 533. A copy was discovered at Amalfin 1137.

 Pandenasis, Darwin's hypothesis by which he explained the phenomena of organic reproduction. As Darwin stated it, it implied that every separate that the accordance of the accordance of the production varied uses that if. art of the organisation reproduces itself.
- Pandolin, the scientific name of the "scaly anteater," a member of the armadillo family, found in Africa and Southern Asia. It has an extensive rating and solution Asia. It has an extensive tongue, covered with glutinous matter, which it uses in catching ants, its clinef food. When once caught on the tongue, the insects cannot escape. When attacked, the pangolin rolls itself into a ball, and its scales assume the form of sharp spikes.
- Panorama, a name given to almost any series of continuous scene pictures exhibited, but structly pertaining to such scenes when arranged round the inner walls of a circular building and viewed from the Inner walls of a circular building and viewed from the centre. Mr. Robert Barker, an Edinburgh artist, was the first to give a panoramic exhibition, in 1788, and its success induced him in the following year to show a panorama in London. Great improvements have been made in such "shows" in later times Panalavism, a movement to combine the different Slavonic peoples into one nationality.

 Pantagrael, the leading character in one of the satires of Rabelais. A hero of gigantic proportions and marvallous explosed.

and marvellous exploits.

Pantheism, the doctrine taught by Xenophanes in the 5th century B.C., and having for its motte:
"Everything is God, and God is everything." A
kind of Pantheisn has found its way into most
religious and philosophical systems; Buddhism and
Hinduism partake of this doctribe.

Pantheon, the famous temple in Rome, built about 23 B.C. by Agrippa and consecrated to the gods, its splendid dome and portico constituting it one of the most interesting architectural monuments of ancient days. Since the 7th century it has been used as a Christian church. The Pantheon at Paris, built in 1764, is modelled upon it.

Panther, a large carnivorous quadruped, akin to the leopard, native to India and other parts of Asia, and found also in Africa.

Pantomimes were originally stage representations in which speech was not permitted, all the action being carried on by gesture and movement. The ancient Greeks and Romans favoured them. Later on Greeks and Konians favoured them. Later on pantominue became popular throughout Europe, and in the 18th century, with clown, harlequin, and columbine imported into it, was adopted as a form of theatrical Christmas entertainment in England, and still meets with acceptance, although in recent years the fun and frole have been for the

recent years the fun and froic have been for the most part replaced by spectacle. The most famous English pantonime clown of the early period was Joseph Grunddi.

Papal Infallibility, a dogma stoutly maintained by one party in the Roman Catholic Church, rejected utterly by another, and tolerated by a third, was finally adopted and promugated by a third, was finally adopted and promulgated by the general council at Rome on July 18th, 1870, a great many bishops having withdrawn by way of protest against the decree. Professor Dollinger was excommunicated at Munich for rejecting this dogma in 1871. See "Old Catholics."

"Old Catholics."

Papawer, the typical genus of the well-known botanical order *Papaweracea*, or poppies, found upon every continent of the globe in some form or other.

Paper has been known in one form or another from very early thines. The papyrus reeds of the Mile swamps served the ancient Egyptians for sheets upon which to inscribe their records. The Chinese and Japanese, centuries later, were using something more akin to modern paper in substance, an Asiatic paper-mulberry, yielding a smooth fibrous material, being utilised. With the spread of learning in Western Europe the necessity for a readier medium. made itself felt, and paper began to be manufactured from pulped rags and other substances, though as to the precise period when this was accomplished, or by what country, there is no definite information. Paper was made in England in the reign of Elizabeth from linen and cotton rags, and down to a compara-tively recent period these materials have constituted the chief components of paper. Other paper-making staples have been introduced in recent years, such as surat, a kind of bark brought from India, waste jute, esparro grass, and wood pulp. In modern mills logs are dissolved with sulphur and other solvents, and become pulp in three or four days. Then this is ground to finer consistency in a series of formudable machines, and is ultimately run off through heated machines, and is ultimately run off through heated rollers in continuous sheets, sometimes miles in length. Sizing is introduced generally at the pulp stage. Blotting and filtering papers are unsized, and are rendered additionally absorbent by the use of wool. The machinery for cutting the paper into sheets as required is of very ingenious construction. "Hand-made paper" is formed exclusively of propared rags. The United Kingdom, apart from its own very large resources in this respect, imports one very large resources in this respect, imports one rearly 4 millions pounds sterling worth of material torpaper-making annually. Great quantities of paper for British newspaper use is now being made at Newfoundland paper-mills from native timber.

Paper Hangings were first manufactured in the East and entered Europe by way of Holland in the righ century they were adopted in England, and in recent years the improvements of this class of article have been great.

Paplar-maché, a composition of paper pulp and other substances, to which, when moulded into the desired form, coatings of japan, with gift and coloured inlayings, are added. Many elegant and decorative objects are made of papier-maché. There is also a ceramic papier-maché, which is much

nore durable.

Papyrus, the earliest known form of paper, made in Egypt at a very remote period, from a large species of reed.

Parachute, an apparatus in the shape of an umbrella, intended mainly for use by aeronauts in

times when their balloon is in danger. In recent years many descents from balloons have been made by means of parachutes for the amuse-ment of the public, and some fatalities have attended these exhibitions.

Paracleta (the Holy Ghost, or Comforter), the name used in the English translations of St. John Gospel, and adopted by Abelard to designate the convent in Champagne founded by him, and of which Holoise became the albess.

Paradisa, a Persian word used by the translators of the Old Testament to designate the Garden of Eden, and since incorporated into the language in regard to

any place of happiness.

Paradin was first obtained by distillation of coal, Parialin was first obtained by distillation of coal, the process being discovered about 1830. About 1848, Mr. James Young procured it from immeral oil, and Irish peat also yielded it. The main source of paraffin supply to-day is crude petroleum. It is largely used in the manufacture of candles, for waterproofing, and numerous other purposes.

Paroel Post was established in England in 1883 for inland parcels up to 7 lb. in weight, the maximum being raised to 11 lb. in 1886. The system has since been extended to India, Egypt, and other countries. The British Postal authorities carry over a hundred million parcels annually now, the postage on which exceeds two millions stering.

countries. The British Postal authorities carry over a hundred million parceis annually now, the postage on which exceeds two millions stering.

Parchament, made chiefly from the skins of animals (those of the sheep and goat being mostly utilised), was employed in olden times, before printing was invented, for writing books upon. Latterly it has been manly used for legal documents. A vegetable parchment was invented by W. E. Gaine in 1857, and though not equal in strength and durability to skin parchment, has been largely employed. Vellum is parchment made from the skins of young calves or lambs.

Pardons are remissions of penalties or punishments, a power that is usually vested (at least normally) in the king or other heads of the state of a country. The term implies complete, not partial, remission.

Parhalia is the term applied to the very peculiar phenomen known as "mock-sums" seen sometimes in the higher Arctic regions. At these times the sun is attended by a number of halos crossing each other in various geometrical forms, and said to be due to the refraction of light caused by crystals of ice floating in the air.

floating in the air.

Pariah, a very low caste of Hindu, outside the pale of regular castes, and avoided as something unclean. They are the lowest class of labourers, but are

They are the lowest casts of incouriers, but are often employed as servants to European families.

Paris University is said to have been founded by Charlemagne, but as known to modern times we established in the rath century, and is one of the greatest educational institutions of Europe.

greatest educational institutions of Europe.

Parliament, as a British institution, derives its origin from the Saxon general assemblies, or Wittenagemot. The representatives of the people later formed a House of Commons, which was settled by statute in 1298 and gradually acquired its present transcendent and absolute power and present transcendent and absolute power and jurisduction, and sovereign and uncontrollable legislative authority. The name comes from the

French word parlement or discourse.

Parquetry, the rame of a style of flooring consisting of small rectangular wooden blocks lad down

ing of smal rectangular wooden blocks lad down according to geometrical pattern.

Parrot, the popular name of a widely distributed family of tropical birds, including the Afnean grey parrot, the green pairot of South America—both familiar cage pets in this country—and the various parrakees, cockatuos, macaws, fories, etc. Nearly the whole of these birds possess a remarkable gift of imitating sounds, especially that of the human voice.

Pareses, descendants of the Zordstrians, or Fireworshippers of Persia, are now nore numerons in India than in the land of the Shah. They are born traders, and many of them not only possess great wealth but are renowned for their charites.

Parthenon, the famous Temple of Minerya at Athens, erected about 442 B.C., under the superintendence of Phidias, who therein placed his

renowned statue of the Greek goddess. The Partimon was 227 feet long by 101 feet broad, and was in the pure Doric style. The ruins still existing are of considerable extent.

Particularists, a German political party-name applied to such members of the smaller states as in 597-2 opposed absorption into the empire.

Particular, a well-known British game bird, the shooting of which forms a considerable attraction to sportsmen in the season, which opens on September 1st. There exist only three species, two of which

rate. There exist only three species, two or when are native to this country.

Pasquinades, short saturical poems such as Pasquin, the Roman cobbler poet, used to amuse the public with by reciting from his stall.

Pessionists, a priestly order founded in the 18th century in Italy by St. Paul of the Cross. In 1842 some Passionists established themselves in England, and the order has now several houses in this country, the leading one being at Highgate; the late Cardinal Manning solemnly bressed this monastery at its institution in 1876.

Passover, the chief Jewish festival, commemorating the departure from Egypt, and the incident of the Angel of Death passing over the houses of the Israelites

Passports were at one time a necessary voucher for travellers, and consisted of a licence signed by a ruler, or proper State official, authorising the person ruler, or proper state omciai, authorising the person named to pass through a country, or from one country to another. Passports to British subjects are granted by the Foreign Office. They may be considered as practically abolished, however, except in war time; though their employment in certain Continental countries sometimes still facilitates travel.

countries sometimes still facilitates travel.

Pastel, a painting mater, all mostly used for portraits, composed mainly of pipeclay and colouring matter.

Paston Lettars, a series of letters that passed between members of the Paston family, of Norfolk, in the 15th century, and aff-rding much detailed information concerning the social condition, manners, and customs of the period.

Paten, the dish used for holding the consecrated bread in the Euchanstic service.

Pathology, the science of diseases, in their full physiological and anatonucal bearings; investigating their predisposing causes, characteristic symptoms, and progress from inception to climax and conclusion. Patricians, the anistocracy of ancient Rome, comprising Senators or their descendants.

prising Senators or their descendants.

Paul's Cathedral, 8t., stands on the site of an ancient Pagan temple that existed in London in the yrd century. The present noble building is the third that has been erected on this ground. The secondarine Gothic structure which possessed what was then the highest spire in the world—was totally destroyed in the Great Fire of 1656, and in 1674 the effice was completed in 1710 and cost £1,511,702. Its total length from the main portice to the east end is 510 feet, its breadth 282 feet, and its height to the top of the cross 404 feet. top of the cross 404 feet.

Peagock, a bird of large size and beautiful plumage.

its characteristic features being a tail of brilliant "eyed" feathers, which it has the power of erecting and spreading out, the males possessing resplendent feathering to a much greater extent than the females. The bird has been semi-domesticated in Europe from early times. It is a native of India and Java, and is said to have been first brought to Europe by Alexander the Great.

Pean, a term in heraldry indicating one of the furs borne in coat armour, the ground of which is black,

borne in coat armour, the ground of which is black, with ermine spots of gold.

Pearl is produced by certain shelled molluses, chiefly the oyster. The inner surface of the shells of the pearl oyster yield "mother-of-pearl," and distinct pearls are believed to be morbid secretions, caused by some external irritation. Many fine pearls are found in the actual body of the oyster. Madagascar, Ceylon, the north-west coast of Western-Australia and the Gulf of Mexico are among the most productive pearl-fishing grounds. In ancient times Britam was renowned for its pearl fisheries,

the pear's being obtained from a species of fresh water mused. The Shah of Persia gave Cribo.co for a pead, and Cleopatra is said to have given Bo.co for another. Western Australia has produced a so-gram pear's, the finest the world has seen. The largest pear i ever found was the "Beresford-Hope Pear's," which weighed 1,800 grains, over six times as much as the oyster that produced it. The ex-Empress Eugenie had a necklace of pearls which were found in the Fiji Islands, and valued at several thousand pounds. But her most famous necklace was one of matchless black pearls. Philip II. which were found in the Fiji Islands, and valued at several thousand pounds. But her most famous necklace was one of matchless black pearls. Philip II.

of Spain had a large pearl valued at £10,000.
Leuis XIV. gave a pearl to Madame de Maintenon which weighed rrr grains. Baroness de Forest's pearls are said to be worth £50,000, while Lady Dennan possesses a rope of pearls, 400 in number, valued at £60,000, each pearl being worth £750 on the average. A pearl necklace, valued at over £700,000, was stolen durant transit through the post between

waiued at £60,000, each pearl being worth £75,00 in the average. A pearl neichace, valued at over £7.00,000, was stolen duraig transit through the post between Parls and London, in the early part of 1913, and the capture of the theves, followed by the discovery of the pearls in the roadway at Highbury, formed one of the sensations of the year.

Peasants' Wale was the serious rebellion which spread over Southern Germany in 1524, the result of a strong religious movement. It swakened a terrible conflict, in which cruel atrocities were committed, and was not suppressed until it had run a course of violence for about a year. The members of one revoliting band were called the "Bundschuh," from the large shoes they wore.

Peas, decayed vegetable matter found mostly in marshy positions, and common in Ireland and Scotland. Peat is coal in its first stage of development. It is burnt for fuel in many cottage homes.

Peocary, an animal of the Ungulata order, found in large numbers in South America. They are slaped like a boar and are of pig-like habits. They are dark-coloured, covered with bristles and provided with tusks, which form powerful weapons of attack.

Peoculiar People, a religious sect—founded in London about 1836—who held the theory that it was sinful to call in medical aid when peeple were sick, prayer being all-sufficing. Numerous charges of manslaughter were brought against these people from time to time because of neglect of medical aid, and some were importsoned. Occasionally "Peculiar from time to time because of neglect of medical aid, and some were imprisoned. Occasionally "Peculiar People" still figure in the police courts.

Pedomeser, an instrument for recording distances walked, but only capable of registering the number

walked, but only capable of registering the number of steps taken.

Peal Tower, the name applied to the numerous fortified towers or strongholds which are to be found along the Scottish Border. They serve both as dwelling-houses and places of defence, and belong to the period when lawlessness had to be reckoned with more seriously than nowadays

Peap o' Day Boys were members of a secret insurrectionary society of Jrishmen who in 1944 and later caused a good deal of trouble to the authorities. It was their custom to visit the houses of the "Defenders" at daybreak and carry off their arms.

Palasfans were a sect of the 4th centure, founded

Pelagians were a sect of the 5th century, founded by a Briton named Pelagius, who was preaching in Rome circa 400. A bitter controversy was aroused over the Pelagian doctrine, which maintained, among other things, that the consequences of Adam's sin did not go beyond himself, and that the general resurrection of the dead was not due to the resurrec-

resurrection of the dead was not due to the resurrection of Christ. Pelagianism was condemned by the councils of Jerusalem and Carthage.

Pelican, a genus of bird with long depressed bills, and a sort of pouch suspended beneath, enabling the bird to hold a number of fish in reserve for future consumption. They have immense wings and webbed feet. Two species inhabit Eastern Europe, and seven other species occur in tropical climates.

Fammican, venuon or other mest that has been sliced, dried, pounded and made into cales, for use by explorers and others who are likely to be out of reach of fresh mest for a considerable time.

Panal Laws are such enactments as impose a penalty for certain acts of omission or commission by

persons ot a different faith from that which is estab-lished. Penal Laws were originally directed against Roman Catholics, and under Elizabeth, James I., and William III. were repeatedly enforced with great injustice. At one period Roman Catholics were deprived of many important civil rights, and it was not until 1800 that their emancipation from these Laws was fully carried out.

Panance, a punishment prescribed or voluntarily accepted as an atonement for a sin or offence. Public penance was largely exacted in olden times, and in the Roman Catholic Church to-day penance appointed

to the sin is imposed at confession.

Penguin, a genus of large birds with small wings and webbed feet, existing in enormous numbers in the Southern Ocean and Antarctic Sea. They breed on the rocky coast, and in the season are to be seen in vast numbers standing erect over their eggs. are facile swimmers, and live on fish.

are facile swimmers, and live on fish.

Paninsular War lasted from 1508 to 1814.

Wellington defeated the French at Fuentes D'Onoro,
Albuera, Ciudad Rodrigo, Badajos, Vittoria, Salamanca, and entered France with the Allies in 1814.

Panitantiarias are special prisons where convicts
are confined and put through a course of training
intended to reform and make useful citizens of them.

The term is now used to designate places where
criminals serve sentences of penal servitude.

Panitanta were a conventual order established in

criminals serve sentences of penal servitude.

Penitamis were a conventual order established in
1272 by Bernard of Marsellies, and consisted mostly
of repentant courtes-uns. They were called
Penitents of St. Magdalen. Similar order, were
established at Paris and Orvieto at later periods.

Pentatanuch, the first five books of the Old
Testament, Genesis, Exodus, Leviticus, Numbers,
and Deuteronomy.

Pentacost, in the Christian Church, the Whitsuntide festival in commemoration of the descent of the
Halv Choes upon the apostles during the feast of the

Holy Ghost upon the apostles during the feast of the Pentecost; to the Jews it is a time of solemn celebration—"the feast of weeks," celebrated on the 50th day, or seven weeks after the Passover.

Soth day, or seven weeks after the Passover.

Pepsin, the leading constituent of the gastric juice, which may be obtained by digesting parts of the mucous membrane of the stomach of suntable mammiferous animals in water. It is used as a remedy for indigestion, and other medical purposes.

Pepys Diary," written by Samuel Pepys, Secretary to the Admiralty under Charles II., was first published in 1825. The original MS, is deposited at Magdatene College, Cambridge. The "Diary "gives a graphic picture of the social life of the period.

Perch, a well-known family of sea and freeh-water.

Perch, a well-known family of sea and fresh-water fishes, with dark striped sides. The common perch of British rivers and lakes falls an easy proy to the

angler because of its voracity.

angler because of its voracity.

Perfumes are essences or odours obtained from floral and other substances. The chief flower perfumes are those obtained from toos, jasuine, orange flower, violet, and acacia. Heliotrope perfume is largely obtained from vanilla and almonds. Among the aromatic herbs which yield attractive perfumes are the rosemary, thyme, geranium, lavender, etc., while orange peel, citron peel, musk, sandal wood, patchouli, and other vegetable products are largely drawn upon. In recent times chemistry has been called into play in aid of the perfumer, and many of called into play in aid of the perfumer, and many of the popular perfumes of to-day are chemically pre-pared in simulation of the scents of the flowers or other natural substances the names of which they bear.

other natural substances the names of which they bear. Parl past attos were followers of Aristote, the name arising from the philosopher's habit of walking up and down while he expounded his theories. Parl ursy, the offence of giving false evidence has been from the ekrilest times severely punished. The ancient Romans threw the perjurer from the Tarpean Rock, and after the Empire was Christianised, those who swore falsely upon the Gospel had their tongues cut out. The usual punishment in England from the 16th to the 19th century was the pillory, fine, and imprisonment. It is now punishable by imprisonment.

Permiam Formation, a group of rocks lying between the Tries and the Carboniferous strata. It has three subdivisions, Upper, Middle and Lower Permiss, all of which are rich in fossil deposits.

Permisa, all of which are rich in fosal deposits.

Perpektual Median is a problem that has engaged
the ingenuity of many inventors, known and obscure,
including George Stevenson and Arkwright, both
of whom struggled with the idea until convinced of
its impracticability. There are even yet people who
imagine that a machine that will possess within itself
the power of supplying its own motion is among the
inventive possibilities.

Peruke, the name given to the wig worn by men in
the zyth and sigh centuries, and up to the end of the
first decade of the righ century. Perukes did not
make their appearance in England until about 1200,
and during the Restoration period were of great
length, falling upon the shoulders. They gradually dimunished in size until they disappeared
altogether.

altogether.

Peruvian Bark. (See **Cinchona.**) **Peseta,** a Spanish silver com worth about 9**[**d.

Pessaimism, the theory, as taught by Schopenhauer, that this is the worst of all worlds, and that it is better to sleep than to wake, and to die than to sleep.

peter to steep than to wake, and to die than to seep.
The term is also generally used to express a tendency to look upon the dark side of things.

Petalozzian Bystem concerns itself with the education of poor children in reading, writing, and practical industrial employment, and was founded by Johann Bestalozzi in 1775. Although it was not successful in Petralozzi's time, it has been improved and

cessful in Portalozzi's time, it has been improved and developed on prosperous lines since the philanthropic Switzer's demise.

Petaned, an instrument of war, invented in the 16th century, consisting of a metal cylinder which was filled with gunpowder, and fired at gates or barriers to blow them up. It is now obsolet.

Petanioo Mansacre, a result of a conflict between the military and a large concourse of people assembled at a Parliamentary Reform meeting held on August 10th, 13p, on St. Peter's Field, Manchester, involving the loss of many lives.

Petar's Panoa, an annual tribute paid in former times to the Pope, said to have been at first a voluntary offering by Ina, king of the West Saxons, and

tary offering by Ina, king of the West Saxons, and tary offering by Ina, king of the West Saxons, and amounting to a penny a year levied on all families owning land of the annual value of 3od. The tax was continued down to the regn of Henry VIII., by whom it was abolished. It is still customary to call contributions sent to the Pope "Peter's Pence," but nowhere are such payments enforced to-day.

Pater's. St., at Kome, as it at present exists, was built in the 16th and 17th centuries, the first atone being laid by Pops I luius II in 1806 and completed

bolit in the one and you tentaries, it is man assume being laid by Pope Julus II. in 2506, and completed and consecrated in November, 1556. The dome was designed by Michael Angelo, and Raphael was em-ployed for a time in decorating the building. The ength of the Cathedral is 659 feet; it has a breadth

length of the Cathedral is 669 feet; it has a breadth of 49 feet at its widest point, and its highest point is 43 feet from the ground.

Patitio Principli, a line of argument which assumes the conclusion aimed at as a proved fact.

Patition of Rights, passed in the reign of Charles I., June 7th, 1008, contained the important proclamation that no freeman should be compelled to pay taxes except as laid down by Act of Parliament. Their none should be illegally imprisoned: that ment: that none should be illegally imprisoned; that soldiers and sailors should not be billeted on private persons; and that commissions should no more be

issued for punishing by Martial Law.

Petrel, an ocean bird of great power of wing, common

Petral, an ocean bird of great power of wing, common in the Southern Ocean, and, as regards some of its species, a visitor to the northern parts of the British Isles. The Stormy Petral, Fulnar, or "Mother Carey's chicken," breeds in Britain, The birds pass most of their time far out at sea.

Petral, a hydrocarbou occurring in petroleum; petroleue, so largely employed in motor propulsjon novadays, is a mixture of mineral oils, specially frepared, and is found naturally, in one form, as the liquid constituent of asphalt.

Petroleums, the mest abundant of inflammable mineral oils; during the last fifty years produced in

enormous quantities in North America and Mexico, and ingranous parts of Europe and Asia. Previous to 1850, when a system of refining was discovered that enabled it to be utilised as an illuminant, it was not of much commercial value. The adoption of ollsteal for railway and shipping purposes—unid especially for ships of war—is exercising a great influence upon the oil industry. In 1874 he world's petroleum production was 33,000,000 metric tons, the United States contributing over 30,000,000 tons, Russia, 3,850,000 tons, and Mexico, 2,25,656 tons, the last-named country showing an increase of upwards of 300 per cent. Pfennig, a German copper coin, worth 1 of a penny, rooth part of a mark.

rooth part of a mark.

Phalanx, a name applied by the ancient Greeks to \$ body of troops drawn up in close array, with over-iapping spars, and eight, ten, or more rows deep, The Macedonians stood sixteen deep. A Greek phalanz consisted of 8,000 men.

phasian consisted it economics.

Patty Officers in the navy correspond with noncommissioned officers in the army.

Pawter, an alloy of tin and lead, and sometimes, as in
Britanua metal, of tin, copper, and antimony.

Pharmacopasia, the authorized book of formula for
the representation of medicines multiplied, by the

harmacopoun, the authories book of formulae for the preparation of medicines, published by the General Council of Medical Education and Registration of the United Kingdom. Each country

Registration of the United Kungdom. Each country publishes a similar book.

Phancas, the name of the first lighthouse, built by Ptolemy 1, 289 B.C., on the 1sle of Phancs, at the entrance to the harbour of Alexandra. It was 460 feet high, and one of the "seven wonders."

Phassans, a familiar bird of the Gallines order allied to the jungle fowl and turkeys, and comprising some 75 species. Phensants came from Western Asia, are of beautiful plumage, and bred for game. Phanyl, an oryanic radical, found in carboic acid (phenol), benzole, and anilline.

Philipanica, the oratons delivered by Demosthenes,

philipping, the orations delivered by Demosthenes, 352-342 R.C., against Philip of Macedon-remarkable for their acrimonious invective—since when similar discourses have been styled philippic. Phillipsite, a mineral tound chiefly in old igneous rocks, and formed of silicate of alumnium, calcium,

and potassium. Philology, the study of the literary memorials of different nations. Comparative Philology is more strictly the science of language, in its various forms;

origins, laws, and alliances.

Philosopher's Stone. (See Alchemy.)

Philosophy, as defined by Sir Wulkan Hamilton, is

"the science of things divine and human and the causes in which they are contained; the science of effects and their causes; the science of sufficient reasons; the science of things possible the science of science; the science of the absolute. The greatest minds of all ages have engaged in philosophical speculations, and many systems and theories have been evolved. (See the various subject and name headings.)

Phlogiston, a term invented by Stahl to describe

Phiogiaton, a term invented by Stahl to describe
"the mfammable principle" as distinguished from
fire in action. Stahl's theories placed the phenomena
of combustion on an adequate basis."
Phomnix, a fabled bird of great beauty, which, after
an existence of five or six hundred years in the
wilderness, was said to have made its own funeral
pyre, set it afame with the fanning of its wings,
pertshed, and afterwards sprung into new life and
worth from its num ashes.

perished, and afterwards spring into new life and youth from its own sahes.

Placanix Clubas, for the spread of rebellious propaganda, were established in various parts of Ireland in 1959-9, and many arrests were made. Of the persons brought to trial, however, only one received punishment, Daniel Sullivan, who was sentenced to 10 years' penal servitude.

Placanix Parks, the great public park of Dublin, 1,800 acres in extent and containing the Vice-Regulation of the person of the Production of the Cavendish was assassisated in 1988.

Phonograph, an instrument for reproducing sounds, and constiting of a wax cylinder, rotated by clockwock or by a handle, and having a monthipiece into which a person egesks. As the voice reaches the

cylinder the vibrations are recorded on the wax, from which what has been spoken into the mouthpiece can be afterwards reproduced as required.

Phonography, a system of shorthand introduced by the late Sir Isace Pitman in 1837, and since greatly developed.

Phosphorus was discovered by Brandt in urine in 1867. It is found, more or less, in most animal and vegetable tissues, and in most minerals. It is an essential element of all plants and of the bones of animals, and is now chiefly obtained from bones. In combination with various metals it forms different phosphates, which are largely utilised as manures.

combination with various metals it forms different phosphates, which are largely utilised as manures. The chief commercial use of phosphorus, however, is in the preparation of lucifer matches.

Photography has been known in regard to its general principles since the days of the alchemists, who discovered that chloride of silver turns black on exposure to light. Wedgwood had some success in chloride of filter transitioner, but it was not excessifi who discovered that chloride of silver turns black on exposure to light. Wedgwood land some success in chloride of silver experiments, but it was not until 3830, upon the discovery of Daguerre which introduced the photographic camera, that any great practical results were obtained. This discovery produced the daguerrectype. A few years later Talbot patented the calotype, by which photographs were obtained on paper treated with a solution of silver loddle in potassum iodide, and the negative was arrived at. Since then the development of photography has proceeded with remarkable success, improvement on improvement having been introduced. Colour photography is a subject that engages the attention of many experimenters, and some promiseattention of many experimenters, and some promise-ful results have been obtained. (See Pears' Dic-

tionary of Photography, pp. 225-346 of this volume.)

Photometer, an instrument, of which there are various forms, for measuring the intensity of light. The photometers of Bunsen and Rumford are in

nost general use.

Phrenology, the so-called science of the skull and brain propounded by Dr. Call, along with Spurzheim, in 1810-12. It has still many adherents, but few scientists of established reputation have accepted it

as based on adequate principles.

Phrynosoma, a genus of horned lizards, allied to the molochs and to the toads or irogs, averaging some five inches in length and abundant in Texas and the southern parts of the United States. The peculiar feature of these animals is that they have numerous hard spines on their heads. They are frequently kept as pets.

Phylactery, an amulet or charm worn about the person and supposed to have a protective influence

over the wearer.

Phylloxera, a kind of plant lice which attack the grape vine, and in some years cause great devastation in the vineyards.

sum in the vineyards.

Physicians, Royal Gollege of, was constituted in London, in 1518, Dr. Linatre, physician to Henry VIII., and the projector of the College, being its first President. The present College in Tradigar Square was erected about 1825 from designs by Sir R. Smirke.

R. Snirke.

Physiognomy, a so-called science which claims to interpret the temperament and disposition of people from the features of the face. Ansotte and Cicero studied the subject, and from the 10th century to recent times it has had many expoundes, the chief of whom was Lavater, whose investigations, as set forth in his "Fragment," published in 1776, were of extreme interest. Physiognomy caunot, however, be classed with accepted sciences; though most people believe in it to a certain extent. Physiology, the science of the structure and functions of animal and plant life.

Planoforts is claimed as an invention for a French

Planoforte is claimed as an invention for a French Planoforte is claimed as an invention for a French instrument maker named Marius, a German organist named Schrooter, and an Italian named Cristofaeli, working independently of each other, in the 18th century. It proved to be much superior to the harpsichord, which it superseded, insamach as the strings of the latter were struck by guills, while those of the planoforte were struck by small hammers. Planofortes were introduced into England about 1960, and a German named Zumpi was making them in London in 1766. The most eminent English makers have been Broadwood, Collard, Kirkman, Erinsmead, etc., and among the leading makers of France and Germany are Erard, Pleyel, Bechstein, etc. Upright planos were introduced about 1800, and "cottage" planos about 1840. The other kinds are the Grand, the Semi-Grand, and the Square planofortes, all, however, worked on the same planofortes, all, orinciple.

Plastre, once a common Spanish silver coin worth
4s. 3d. English. The name of plastre only applies
to-day to certain coins of low denomination in Turkey

and Egypt.

Pioquet, a card game invented by Joquemin for the diversion of Charles VI. of France when in ill-health

about 1300.
Piots, inhabitants of Scotland in pre-Roman times

about 1300

Plots, inhabitants of Scotland in pre-Roman times, are held by some historians to be a branch of the old Celtic race, by others to lave been of Scythain origin. They occupied the Lowland portion of Scotland, and were subdued by the Scots in the given the second of Scotland, and were subdued by the Scots in the opticentury, Kenneth II. becoming king of the whole of Scotland.

Plotiures of Great Price. The costilest picture in the British National Collection is Holben's portrait of the Duckess of Milan, which had been exhibited there on loan from the Duke of Norfolk for nearly 30 years, and became the nation's property for £72,000 in 1909. The next costlest is the "Ansidel Madonna" of Raphuel, bought in 1885 from the Duke of Marlborough for £70,000—equal to upwards of £12 per square inch. Ruskin spoke of it as "quite the loveluest Raphael in the world." It has been valued by the Director of the National Callery at £15,500, and Mr. Cladotone was wont to find satis-action in 1908, for £40,000. Titian's portrait of Arnosto was acquired for the National Collection in 1908, for £40,000. Titian's portrait of Arnosto was acquired for the National Gallery in 1904 from Sir George Donaldson for £30,000. Other costly accusations include Van Dyck's "Charles the First" £17,500. Holbein's "Anibassadors," Velasquez's "Admiral Philidorareja," and Moron's "Italan Noblemain," from Longford Castle, which together cost £55,000—5,90,000 of which was derived from private gifts. Longford Castle, which together cost £55,000— £30,000 of which was derived from private gifts. Prices at the regular and private picture sales have Prices at the regular and private picture sales have attained extraordinary figures at many recent sales. The Duveens paid £41,30 for Ronney's portrait of Lady de la Pole, for which, with a companion picture of her husband, the artist received only 100 guineas Raeburn's portraits have also realised extraordinarily high figures in recent years. Plers, a projecting embankment, wall, wharf, quay, or landing place, now to be found at most sea-coast towns. One at Southend, Essex, is over a nule in length, and the Southport Pier on the west coast is almost as long. There was an Act passed by Parliament in 1865 to facilitate the formation, management and maintenance of olers and harbours in Great

and maintenance of plers and harbours in Great Britain and Ireland.

Pleties were a body or religious reformers, who, under the leadership of Spener, a Leipsic professor, spread themselves over Germany in the 17th and 18th

spread themselves over Germany in the 17th and 18th centuries. Although guilty of some entravgances, they were zealous in their aims, and did good work in promoting the practical side of religion.

Pig, the popular name for a hog or swine, applied to both sexes, though, when making distinctions, the mature male is styled a boar and the female a sow.

Pike, a familiar fresh-water fish abundant in the temperate regions of both hemispheres. It forms good sport for the angler in our rivers and lakes, and sometimes attains a weight of from zo lb. to 30 lb. It is extremely voracious, is covered with small scales, and has ferocious-looking head.

Pilothand, a fish of the herring family, but with smaller scales and more rounded body. It appears off the Corulsh coasts in vast shouls every summer.

Pilstrimages, the undertaking of a journey to a distant place or shrine, to satisfy a religious vow or secure spiritual benefit, were resorted to in early Christian times. The first recorded pilgrimage is

that of the Empress Helena to Jerusalem in 326. In that of the hippers release to Jerusalem in 220. In the Middle Ages they became common, and were undertaken by monarchs and people of rank in all Christian countries. The Mahomedans have been making pilgrunages to Mecca since the death of the Prophet, such lutty being enjoined by the Koran. In recent years Roman Catholic pilgrunages to Lourdes, La Salette, and other places have drawn large numbers of the devout.

large numbers of the devout.

Pligrim Fathers, the 74 men and 28 women, all
English Purtans, who, after living some years in
exile in Holland, to escape persecution in their own
exile in Holland, to escape persecution in their own. exile in Holland, to escape persecution in their own country, set sail from Southampton on August rgth, 1600, for America landing at Plymouth Rock on December 25th of that year. They founded the settlement of Plymouth, and are regarded as the ploneers of American colonisation, although 13 years earlier a small Virgunian colony had been established. "Pligring Progresses," Bunyan's famous allegory, written in Redford gaol. The first part was issued in 1678. It is the greatest work of its kind, and has gone through hundreds of oditions.

Rone through hundreds of oditions.

Phlory, a wooden instriment of purishment in use in England until 1837. It consisted of a pair of the beards with lobes through which the culprit's head and hands were put, and was usually erected on a scaffold. While a person was undergoing this punishment the mob generally pelted him with stones and rubbish, sometimes to his serious injury. People convicted of forgery, perjury, or libel were often condemned to the pullory, but from 1815 to 1837, when the pillory was abolished, the only offence for which it could be inflicted was perjury.

Plinchbeck, an alloy (28 per cent, zuc, 75 copper)

Pinchbeck, an alloy (25 per cent. zinc, 75 copper) introduced by a London toyseller named l'inchbeck in the 18th century, and largely used for the making of watch cases and other articles where cheapness are desired. It was intended to unitate gold.

Pine, a conferous tree that flourishes in most northern

- Fine, a connerous tree that monishes in most northern latitudes, and including many species, all of which afford valuable timber, and yield turpenine and tar. The "Scotch fir" is the only species native to Britain. Pinnaole, a pointed, spire-shaped structure rising above the roof of a building, serving mainly as orna-ment, but also of use in giving firmness to the part it rests on. Pinnacles are found in nearly all styles of exhibitories. architecture.
- Pine were in existence, no doubt, in prehistoric times, and have been unearthed in British barrows Brass pms were introduced into England from France about 1540, and were being made in this country three years later. They were manufactured by machinery in England in 1824.
- Pipa, a species of toad inhibiting Gulana, and not found elsewhere. It is of considerable size, and is remarkable for the fact that the female carries on its back the eggs of its young until they are latched, herself depositing them in that position. Generally known as the "Surinam toad"

Pipe-fish, an eel-like fish with an elongated snout resembling a pape. It is common in British waters, and there is an American species. In many places it is called the "sea horse."

Pistole, the name originally given to a Spanish gold com, worth about 16s. sterling. Other countries—France, Italy, Germany—also adopted the name, and altered the value.

Pistols, small firearms, were invented at Pistols in Italy, and were adopted by the Fughsh cavalry in 1544. At the present day pistols are mostly of the

ray, and were another by the Impaint actuary mere another in 1544. At the present day pistols are mostly of the revolver pattern.

Picairn Islanders were originally the mutineers of the Bounty. They took possession of the island in 1790, and it was not until 1814 that there whereabouts was ascertained, accidentally, by a passing chip. The mutineers, under their lender, Atlans, had settled down to a sort of communal existence, married settled down to a sort of communal existence, married black women from a neighbouring island, and increased so in numbers that in the course of years they were too many for the island to support, and in 1856 they were removed by the British Government to Norfolk Island. (See Norfolk Islanders.) Pitch-blende, a very scarce uniteral, which has been much talked about recently because of its being

the source of radium. Scientifically, it is an oxide of uramum, and is of black or brown colour. It occurs in maßes with ores of lead, silver and tin, in the latter connection being found in Cornwall. Saxony, Bohemia, and Hungary also yield it in lead and silver veins, while small quantities have been found in some parts of the North American continent.

Plack, an old Scotch con of the 15th and 16th centuries, and of variant value.

turies, and of variant value.

turies, and of variant value.
Plague, the name given to a terribly fatal epidemic which spread over Europe and devastated England at different periods between the roth and the 1916 centuries. The most senous of these visitations were those of 1473, 1478, 1488, 1506, 1507, 1528, 1551 and 1664 (the Great Plague of Loudon).
Plates, a familiar British sea-fish, of the flounder family, largely used as food and of fair quality, though not reckoned equal to soles.

Plaid, a comprehensive garment or tartan of woollen material checked and coloured in distinctive markings for different Scottish clans, and worn by women as well as men.

Plain-Song, a style of musical composition sung in unison, familiar in the churches of the West from very early times, and still largely used, especially in

the Roman Catholic services

Planets, the name given to such celestial bodies as revolve round the sun m elliptical oibits. The mane was first used by the Greeks to indicate their difference from the fixed stars. There are nine primary planets, Mercury, Venis, the Earth, Mars Jupiter, Saturn, Urans, Neptune, and the Jupiter, Asteroids,

Asterous.

Plan of Campaign, the name given to the agitation, at its height in Ireland about 1887, the object of which was to compel landlords to reduce their rents. These proceedings were adopted in connection with the National Land Lengue and gave rise to much disturbance. The Pope condemned the "Plan of Campaign" in 1888.

Plantagenets began to reign in England with Henry II., in 1154, and extended to Richard III., who was killed at the Battle of Bosworth Field in

who was kined at the natice of norwood related 1485. There were in all 14 Plantagenet Kings.

Plantigrada, the scientific name for such Carmivora as walk with the vole of the toot fast to the ground, such as the bear, badger, racoon, etc.

Plansay, Battle of, was fought between the British under Chve and the Indians under Suraja Dowlah on June 23, 1575. The Intital had a force of only a few thousand men, but gained a decisive victory over an army of 68.000.

only a few 'housand men, but gained a decisive victory over an army of 68,000.

Plate, the term applied to gold, silver, or platedware, such as spoons, knives, forks, dishes cups, etc. (See Goldsmiths' Company.) In recent times it has been the custom to melude under the term arricles of the baser metals, covered with a time coating of silver, and differentiated as "electro-plate".

Platinum, a scarce white metal generally allied with fridium, osmum, ruthenium, and palladium. It can only be melted in an oxylydrogen or electric furnace, but can be rolled out into a film-like sheet,

or drawn out to the finest wire.

or unwn out to the fines wie.

Plebalans were the ordinary citizens of Rome as distinguished from the Patricians. Inter-marriage between the two classes was prohibited.

Plelades, the name applied to the Seven Stars of the Taurus constellation, and really comprising, when viewed through a powerful telescope, many streament of farms. thousands of stars.

Plough Monday, the day on which in olden times the rustic population returned to their regular labours after the Christmay festivities. It falls on

labours after the Christmas festivities. It falls on the first Monday after the Epiphany.

Ployar, a well-known wading bird, widely distributed over the marshy places of Europe, and a familiar object in many parts of Britain.

Plug Riods were frougent in the manufacturing districts of the North of England about 1842, when there was great distress among factory workers. The rloters attacked mills and, by drawing the plugs from the boilers, stopped the machinery.

Plume, strictly a feather, but often worn as a military head adornment consisting of a tuft of

feathers. Any ornamentation of this description is now styled a plume.

Plurality, a term in Ecclesiastical Law Genoting the holding of more than one benefice by one person at the same time. This was much indulged in formerly, but is now expressly prohibited.

Plymouth Brethren, a Nonconformust sect founded about 1830 by Mr. Darby. They are not at great variance with other Protestant churches, recombs no order of uninsters, and vessive two

at great variance with other Protestant churches, recognise no order of uninsters, and receive into communion all who acknowledge Christ. They possess over no chapels in England and Wales.

Pneumatic Despatch, a method of parcel forwarding, by means of compressed air, through a tube or along an enclosed railroad. The experiments hitherto made in this direction have not been matterly all the communications.

hitherto made in this direction have not been particularly successful on a very extensive scale, but it seems probable that pneumatic despatch will be ultimately widely adopted. Already the system is satisfactorily at work in connection with the short-distance transit of letters, packets, etc.

Poet Laureate is an office that dates from a very early period. There was a Versificator Regis in the time of Henry VIII. Chaucer held the office in the reign of Richard II. Skelton was Poet Laureate under Henry VIII. Sponer held the post in Queen Elizabeth's time; Ben Jonson also held it. Dryden was Laureate from 1690 to 1700. In the 18th Century the Poet Laureates were Southey, Wordsworth and Tennyson. Bit. Alfred Austin was Poet Laureate from 1896 to his detail in 1913, when Mr. Robert from 1896 to his detail in 1913, when Mr. Robert

Tennyson. Mi. Alfred Austin was Poet Laureste from 1896 to his death in 1973, when Mr. Robert Bridges succeeded to the office.

Poistiars, Battle of, was fought on September 19th, 1956, when Edward the Black Prince gained a complete victory over John, King of France, who was taken prisoner and brought to London Pointer, a well-known sporting dog of Spanish origin known in this country from about 1698. The remarkable feature about this dog is that when it soes game it stands still and points with its up-lifted foot in its direction.

Point Bedal, for service in the Polar regions.

foot in its direction.

Polar Medal, for service in the Polar regions,
was first granted to the officers and crew of the

Discovery, in recognition of the success of their
enterprise in the South Polar regions.

Pole-Cat, an animal of a dark-hrown colour,
averaging about 18 inches in length, exclusive of
tail. It is carnivorous and belongs to the weasel
family. Like the skunk, it has the power of emitting
a most offensive odour.

Pole-Bax is of the second magnitude, and the last in the tail of the Little Bear constellation. Being near the North pole of the heavens, it always remains visible in the Northern hemisphere; hence its use as

wishle in the Northern hemisphere; hence its use as a guide to seamen.

Police of one kind or another have existed from the earliest times. There was a London which is the right century, and its members were knowned and its jurisdiction extended from time to dissequently the entire of the xyll century, who have subsequently controlled by Sir Robert Peel (then are Feel), and in 1893 it was extended to other parts of the county London has about 25,000 police, with 144 horses, and the total number in England and Metropolitan 25,050 police; Scotland has 3,501 and freing 1,15,501. The Metropolitan and City of London Rollee cost about 52,000,000 a year, and the cost of the county and outside of the metropolis, is over £5,000,000 at 100 political England, Wales, and Scotland outside of the metropolis, is over £5,000,000 at 100 political power and its distribution among use nations, leaving regard to population, productive expectly.

political power and its distribution among containes, having regard to population, productive capacity, social features and methods of government.

Politica, a dance that was introduced shire England from Bohemia in 1843, and wan great papularity, See Pears' Dictionary of Sport and Pastinues.

Political, a tax levied on every adult—every liead or poli—was first imposed in England in 1840, and led to the "Possants' Revolt," headed by Will Tyler. It was re-imposed in 1813, and again by Charles II., but abolshed by William III. in 1849.

Polo, an interesting game which has been well

styled "hockey on horseback," and seems to have

styled "nockey on norseneck," and seems to never the existed in the East for a long period. See Passe Dictionary of Sports and Pastimes.

Polyandry, a kind of domestic existence which allows a woman a plurality of husbands. It only prevails in a few remote communities, in some parts of India, Ceylon, and Tibet, and among certain

savage tribes.

Polythaism, the doctrine of plurality of Godheads. Polythaism, the doctrine of plurality of Godheads. Polyzos, the name given to a class of molluscoida living in aggregated masses, and having the appearance of moss. They are diverse in form, of very primitive structure, and the reproductive organs of both aexes are present in the same individual. Pomace, the name given first to the pulp of apples and other fruit after pressing—as in cider-making; and later to fish reduce after the oil has been compressed from it. The latter is then exposed to the sun and in its dried form constitutes fish guance.

and later to non retuse after the oil has been com-pressed from it. The latter is then exposed to the sun and in its dried form constitutes fish guano. Pomander, the name given to a small ball or box which was formerly carried suspended from the neck or girdle, and contained perfunes and spices which were supposed to be a protection against infection. Pomology, the science of fruits, treating of the cultivation and properties of fruit trees and fruit-bearing shrube.

bearing shrubs.

Ponlard, a stabbing weapon somewhat larger than a dagger; very commonly carried about the person by Spaniards and Italians of the 16th and 17th centuries, but never much in vogue in England.

Pontifex, the title assigned in ancient Rome to members of the chief College of Priests, whose duties were of a general kind. The "pontitex maxi-mus" was the chief religious official of the State.

mus" was the ciner retigious omicial of the State.

Pontoon, any temporary floating structure that forms
part of a bridge across a river. Pontoons are my various forms, mostly cylindrical and hollow, others
take the shape of deck-hoats locked together.
Pontoon bridges capable of supporting railways are
a feature of modern military equipment.

Poodle, a well-known variety of domestic dog,
having a thick curly coat which in France it is the

having a thick curly coat which in France it is the custom to cut close on the lower part of the body. It is an exceptionally intelligent animal, capable of being taught many tricks.

Pope (The), the head of the Roman Catholic Church; his "Infallibility" an article of faith; he is elected by the body of Cardinals; since 1870, when the King of Italy deposed the holder of the office from temporal power, no Pope has left the Vatican between appointment and death.

Pope Joan, a favourite card game of the 18th century. See Pears' Dictionary of Sports and Pastimes.

Poplin, a favourite fabric composed of silk and worsted, and now chiefly manufactured in Dublin. The industry was first introduced into this country from I rance by Huguenot refugees in 1693.

Poppy Oil, a fixed oil obtained from the seeds of the

Poppy 011, a fixed oil obtained from the seeds of the opium-poppy, and used as a food, for illumination, and in a certain class of soap-making.

Population of the British Empire—The British Pinipire—according to the most recent returns, numbers 417,148,000 persons, 45,790,590 of whom are resident within the United Kingdon; —England and Wales, 36,070,492; Scotland, 4,760,904; Ireland, 4,30,205; Islands, 48,915. The population of the punicipal Dominions and Colonies is as follows—

Lotis.

New Zealand 1,070,910 Canada 7,200,643 1,194,043 2,564,965 1,686,212 Cape Colon,
Transvaal
Orange Free State
Rhodesia
Uganda 528,174 1,000,000

Knotiesia (1,000,000)
Uganda (2,000,000)
Southern Nigeria (0,000,000)
Southern Nigeria (0,000,000)
Forcupine, a peculiarly constructed rodent whose back is covered with long, sharp, black and white spikes, which form a powerful means of defence.
There are two species—the Common Percusine,

which is found in Southern Europe and Northern Africa; and the Tree Porcupine, which is restricted to the American continent.

Porphyry, a form of crystalline rock of many varieties that in ancient Egypt was quarried and used for the decorative portions of buildings. The term is now applied generally to the eruptive rocks

term is now applied generally to the eruptive rocks of the porphyritic class.

Porpoise, a marine fish of the dolphin family, and a comnion inhabitant of northern seas. Porpoises travel in shouls, their progression being marked by constant leapings and plungings. Their ayerage length is front four to five feet.

Porf. a special kind of red Portuguese wine, taking its name from Oporto. It was little known in England until the Methien Treaty of 1703, when it was permitted to be imported at a low duty.

Portuguilla, a strony, movable timber or iron grather

Portcullis, a strong, movable timber or iron grating let into the wall of the gateway to a feudal castle, and capable of being lowered or raised at will. It formed an effective protection against attack in days anterior to firearms.

Porter received its name from the fact that it was

Forther received its name from the fact that it was first drunk by porters in London. (See Beart.)

Portland Cement is a mixture of about 20 parts of clay with 80 parts of chalk, specially prepared in kilns, and forning a substance which, after admixture with water, will set hard and solid.

Portland Yasa, one of the most renowned specimens of Greek Art, long in the possession of the Portland family. In 1870 it was placed on loan in the British Museum, and in 188c was smashed to precess Portland family. In 1810 it was placed on loan in the British Muscuin, and in 184g was smashed to pieces with a stone by a man named Lloyd; but, having been cleverly restored, it is now exhibited in the Jewel room. It was discovered in the oth century near Rome in a marble sarcophagus, and is supposed to have, been the cinerary um of some Imperial personage. It was purchased from the Barberini family in 1770 by the Duchess of Portland. The wase stands about to inches high, and is ornamented with figures in white enamel on a dark blue ground.

Portreeve in olden times was an official appointed to superintend a port or harbour, and before the name of mayor was used the chief magistrate of

London was styled the Portreeve.

Porsana, the name given a bird of the rail family. In England it is commonly called the crake.

Positivism, a system of philosophy propounded by

Auguste Comte, rejecting all metaphysical concep-tions; a species of utilitarianism.

Posse Comitatus, an old legal term designating all available people in a county, between the ages of 15 and 70, hable to be called upon to aid the sheriff

asserting the power of the law.

In averting the power of the law.

Post Impressionism, Cubiem, and Futurism embrace three latter-day art movements which, to some extent, represent the barbaric in artistic expression. The Post Impressionist repard drawing as secondary to beauty of paint, and leave the artist to scatter his colours as may best convey his impression. The Cubists and Futurists go still farther, and am at realising, by a series of chaotically-placed colours, the pictorial idea in the mind of the artist. While to the lay onlooker all three movements signify little that is understandable, to their devotees they indicate a healthy desire to break away from old conventions. Poss-obt is a bond given for a loan undertaking to repay the lender the sum borrowed, with interest, after the decease of another person from whom hom he

after the decease of another person from whom he

after the decease of another person from whom he expects to receive money.

Post Office. A post office system of a kind has existed for centuries, but after the introduction of railways postal administration assumed special magnitude. With the penny postage system, in angurated by Sir Rowland Hill in 1840, the modern post office era may be said to have commenced. In 1856 the Post Office began to lastile money for the public by establishing the Money Order Department. The Post Office Savings Bank followed in 1863, and Postal Orders were introduced in 1863. Since 1870 the Telegraphs have been owned by the State, and the Post Office Telephone System was stablished in 1863, although the National Telephone Co.'s system was not fully combined with the Post

Office Telephone service until January 1, 2922. With Omce I dispinone service until January 1, 272. With a larged augmented business and increased facilities there has been a lowering of rates, the 6d. telegram dating from 1890, and 1d. per 4-os. Inland letter postage rate from 1897. The Parcel Post was in augurated in 1881. Post Office work is always increasing. Some five thousand three hundred million postal aligurated in 1881. FOR OMEC WORK is always increasing. Some five thousand three hundred million postal packets (letters, postcards, newspapers, parceis, etc.) are delivered in the United Kingdom in the course of a year; and in the same period are issued about 10,63,600 inland money erietrs. representing over £40,000,000; about 4,000,000 foreign and colonial orders of the value of nearly eleven millions sterling; while postal orders are issued to the number of 13,20,000, and the value of over £50,000,000. There is enearly £70,000,000 invested in the Post Office Savings Bank. Nearly 1000,000,000 telegrams are sent in a year. There are 1000 post offices in the United Kingdom, employing nearly 22,814 persons of whom 46,741 are women. A new General Post Office has been built on the old Christ's Hospital site in Newgate Street, at a cost of £320,000. (See Talegraph, Telephone.)

Potassitum, a metal discovered by Sir Humphry Davy in 1807, and now generally obtained by the iguition of a mixture of charcoal and potassium caubonate. It is one of the most potent of reducing agents. It is a common constituent of numerous rocks, and its compounds are found in many solls and our actable and animal treases. Among its chief

rocks, and its compounds are found in many soils and vegetable and animal tissues. Among its chief compounds are nitrate or nitre, caustic potash, etc.

Potoroo, a marsupial animal so like the kangaroo in shape and movements as to be called the kanguroc rat. They have on roots, and are found only in West Australia and Tasmania, and are found only in West Potatomes, large pear-shaped fints discovered from time to time in the chalk formation, and supposed to

time to time in the chalk formation, and supposed to be the fossils of large sponges.

Pottary was made in prehistoric times, as the numerous fossel evidences testify. Under the ancient Egyptians, great skill was attained in this art, and all the early civilised peoples devoted themselves with success to pottery production. In the Middle Ages the Italians, Germans, Flemings and Dutch made great progress in pottery developments, bringing into use enamels and giazes. Delit, in Holland, introduced a class of eartherware in initiation of porcelain, which was in great vogue throughout Europe for a considerable time. In France, Bermard Pallssy produced the famous enamelled ware which bore his name, and a little later the English Staffordshire potteries came into prominence, and attained great prosperity and high Later the English Stafford:hire potteries came into prominence, and attained great prosperity and high artistic realisation under Wedgwood. Among the other great centres of pottery and porcelain production may be mentioned Dresden and Sèvres. In England, in addition to the Staffordshire porteries successful manufactures have been established at Chelsea, Derby, Worcester, Coulon, and Colebroo. Dale; while in the Far East the Japaness and Chinese have always been famed for their productions of beautiful ware.

Pot Wallopers, the name applied to certain electors who, prior to the Reform Act of 1832, we permitted to receive the Franchise on producing proof that they had, as the phrase went, "bolico their own pot," in the constituency during the six

months preceding an election.

Poulett Peeraga Claim was the claim of William Turnour Thomas Poulett to the Poulett earldom. The Turnour Thomas Poulett to the Poulett earldom. The claimant used to wheel a street organ about bearing a placard with the inscription "I am Viscount Hinton, son of Earl Poulett." The House of Lords pronounced against him, and he died in a workhouse in 1999.
Poultry Gompher was one of the old London City prisons, and stood in what is now called the Poultry. The Poultry Chapel was built on the site of the Old Compter in 1879.
Prado Gallary, the great public picture collection of Madrid, containing a superb collection of paintings by Velasquez, Murillo, Raphael, Titlan, Direr, Van Dyck, Rubent, el legal term applied to any offence calculated to interfere with, or cast contempt upon

the prerogative of the Crown. The law against this, at first intended to prevent the encroadments of papal power in England, was passed in 1906.

Prestorian Guards, a personal bodyguard established by the Emperor Augustus, and employed down to the time of Constantine.

Prairie Dogs are common rodents in Western America, and very like the marmot in general structure. They live in communities in burrows.

Prawns, crustacean animals allied to lobsters, shrimps, and cray fishes. There are several species, but the best known is the edible prawn.

Prebendary, a clergyman who receives a prebend or stipend because of his special connection with a Cathedral or Cathedral Church.

Preceptors, College of, founded 1846 for middleclass teachers. Diplomas are granted for Associates, Licentiates, and Fellows. Professorship of the Science of Education since 1872.

Predestination, the Calvinistic doctrine that God

Precessination, the Calvainstic doctrine that God from and to all etermity predestined everything to happen as it does and must happen, even to the fixing of the souls to be rewarded and punished.
Prefect, chief magistrates in Ancient Rome, and in the absence of the Chief of the State performed the functions of Government. In modern times the title is applied to the Chiefs of Administration of the Departments of France.

Prehnite, a translucent mineral of a pale green colour and crystalline in structure. It is a double silicate of alumnium and calcium, and is mostly found in old igneous rock formations.

Pre-Raphaelites, a school of artists formed about

resease the control of artists formed about 1850, and including among its exponents Millais Rossetti, Holman Hunt and others, whose ideal was absolute fidelity to Nature. For a time the school kept well together, but later modified their ideals, and exercised nuch influence upon art developments.

Presbyterian Churches. Foremost of these is the Church of Scotland, constituted at the Reformation, and to-day has over 1800 minuters and licertion, and to-day has over 1800 minusters and heetiates, 1,440 parsis churches and about 71,849 communicants. The cluci official is the Moderator, chosen annually, who ranks next after the Lord Chancellor; the Sovereign himself being represented by a Lord High Commissioner. The church organisation is cintrolled by Kirk Sessions, Pre-byteries, Synods, and the General Assembly.—Among the other Presbyterian Clurches are the United Free Church of Scotland (formed by a merging of the Free Church of Scotland and the United Presbyterian Church, effected in 1900), which has 1,779 minusters, 1,541 churches, and over 500,000 communicants; the Free Church of Scotland, representing such as were opposed to minon with the soo,oo communicants; the Free Church of Scotland, representing such as were opposed to union with the United Presby terian Church, and has 80 mmsts and 180 congregations; the United Original Secession Church ("Auld Lichts"), dating from 1733, and having 26 churches; and the Presbyterian Churches of England and Ireland. The two leading Scottish churches are very active in the foreign mission field, and commissioned claplains are selected from these bodies for ministrations to Presbyterian troops.

pooles for ministrations to Pre-hyderian troops.

Press-Gamf, a body of sailors employed to impression into naval service, frequently resorted to informer times in England, especially during the war with France in the early 19th century, but not since.

Prester John, the name of a Christian ruler or priest of the Middle Ages. He was supposed to live in the interior of Africa.

Primer, the name given to a book of devotions, put forth by the Roman Catholic Church a. The first book for children to read in schools.

book for children to read in schools.

Primogeniture, the right of the first-born male child to inherit the real estate of his father, in the absence of direction by will or deed to the contrary.

Primose League, founded in 1833 to commemorate Lord Beaconsfeld's political services and to promote the principles he advocated. The primose is the Beaconsfeld foral emblem, and each annue reary of his death, April 19th, is called Primrose Day.

Prinos, the evergreen cak, or Winterberry, a bush the leaves of which are sometimes used in America as a substitute for tea.

as a substitute for tea.

Printing by movable types was first practically utilised by John Gutenberg, at Mayence, about the middle of the fifteenth century, Fust and Schooffer being associated with him. The invention is claimed for Gutenberg, and also for Laurence Coster of Haarlen. It was introduced into England by Caxton, who are up a printing press in Westprinster in see. Haarleili. It was introduced into England by Carton, who set up a printing press in Westminster in 1475. Gothic characters were first used, being superseded by Roman letters in 1518. The mechanism of the printing press was crude up to 1801, when the first iron press was invented by the third Earl of Stanhope. Steam printing dates from 2814, Mr. John Walter, of press was invented by the third Earl of Stanhope. Steam printing dates from 2814, Mr. John Walter, of the Times newspaper, being the first to the the steam press invented by a German named Kong. This press printed r, 100 sheets per hour. Improvements were subsequently introduced by Applegarth and Cowper, and great strides were made in 1898 when the Hoe machine, which turned out 20,000 impressions an hour, was put on the market. Then came the Walter press which printed on continuous rolls of paper from curved stereotyped plates. In connection with printing the Linotype invention has been of great utility, and another and somewhat analogous machine contrivance is the Monotype.

Priories evisted in this country from the 8th century, and were dependent upon the Abbeys. They were dissolved in England in 1414.

Privateers were ships of private individuals licensed in time of war to seize and plunder the ships of the enemy. In 1896, however, privateering was abolished.

Privy Council, of advisers to the Sovereign, has existed in England from early times. It conprises a large number of members selected from the most distinguished men in the Realm, and includes the Royal Pinces and Archbishops, the principal Officers of State and of the Royal Household, and has a Lord President, who is appointed by Letters Patent. It

President, who is appointed by Letters Patent. It grants Charters of Incorporation; but, generally speaking, its power is small in comparison with what

speaking, its power is small in comparison with what it was in former times.

Protectionists as a political party, derived their name from a society for the protection of agriculture established in 1844 in opposition to the Anti-Com League, which had for its leader Lord George Bentinck from 1846 up to the time of his death in 1848. The society was dissolved in 1852. Notwith standing this, Protection as a political policy lias not ceased to have its adherents, and in recent years there has been a strong revival of the Protectionist idea in England, and the fiscal policy known as Tariff Reform, on the lines advocated by Mr. Chamberlain, has been adopted by the Unionist party, and proposes to bring into effect certain measures which, at all events to a retailatory extent, would re-establish the Protectionst principle.

measures when, at an events to a fetulatory extent, would re-establish the Protectionist principle.

Protestant, as a denominational term, was first applied to the Lutherans, who, in 1529, protested against the encroaching power of papacy.

Proteus, a peculiar genus of amphibian new found

Except a pecular genus of amphibian newl found only in the subternance accerns and lakes of Central Europe. It averages about a foot in length, and is of a fiesh colour. It is said that its blood corpuscles are 15 times larger than those in human blood.

Protocol, a diplomatic term denoting the first draft of the control of the contro

of any important document to be used for political DUIDOSE

Protogine, an rotogine, an Alpine variety of granite, some variations of which contain tale or chlorite.

variations of when contain as or enoute.

Protoplasm, meaning the first creation of a thing, is a term applied to describe the substance which, under the right conditions, develops into organic life. Scientifically, protoplasm is defined as consisting of hydrogen, carbon, oxygen, and nitrogen in intricate combination.

combination.

Provost, a Scottish official similar in rank to an English mayor. The Provosts of Edmburgh, Glasgow, Aberdeen, Perth, and Dundee are styled Lord Provosts. The title of provost is also given to the heads of various English collegos.

Proxymite, a term used in the 1rth century to indicate such as used leavened bread in the Eucharist.

Prud'hommes (Prudent Men), Councils of, were French trade tribunsls, of masters and workmen, formed to decide on disputes. Such tribunals existed

in the Middle Ages at Marsellles and Lyons, and were formally revived in the latter city in 1806. Similar bodies exist in other parts of France. Prunella, a kind of material once largely used for gowns of peasant women, and later utilised for the lattings of women's shoes.

Prussic acid is a compound of nitrogen, carbon and hydrogen, and obtained by distillation of cyanide of potassium. It is probably the most poisonous of known compounds.

Paslms, Book of, believed to have been mainly written by King David; this part of the Holy Scriptures contains 750 separate compositions. Psychical Research concerns itself with the investigation of such phenomena as are included in the terms meanerism, psychology, and spiritualism. The Society for Psychical Research was founded in 1802, and has now about a thousand members.

Ptarmigan, a family of birds of the grouse class, mostly inhabiting the mountains of Scotland and other northern countries. It lives on Alpine and similar plants, and in the winter assumes a white plumage. The ptarmigan of our game shops are mostly of Norwegian species.

similar plants, and in the winter assumes a winter plumage. The ptermigan of our game shops are mostly of Norwegian species.

Pterodactyl, the name of a remarkable group of extinct flying reptiles, the fossil remains of which have been found in the rocks of the Lower Llas, the chalk of the Mesozoic epech, and other strata. Ptomaine, a term applied to decaying animal or vegetable matter, usually of a poisonous nature.

Public Bender, usually of a poisonous nature of officials that is alluded to in the "publicans and sinners" phrase in the New Testament, Public Bendools in England include the following:—Bedford Grammar School (founded 1556); Birming-lam, King Ldward School (1523); Brighton College (1847); Christ's Hospital, West Horsham (1523); City of London School (1734); Cheltenham College (1847); Christ's Hospital, West Horsham (1523); City of London School (1734); Halleybury College (1862); Harrow School (1571); Malvern College (1863); Manchester Grammar School (1571); Malvern College (1863); Manchester Grammar School (1575); School (1563); Mill Hill School (1877); Repton School, Derbyshire (1523); Stonyburst College (1526); Personic School (1536); Sirwesbury School (1523); Stonyburst College (1526); Personic School (1526); Wellington College (1866); Marchan School (1526); Wellington College (1866); Marchan School (1566); Wellington College (1866); Marchan School (1566); Wellington College (1866); Marchan School (1526); Wellington College (1866); Wellington College (1866); Marchan School (1526); Wellington College (1866); Wellingto

utilised for cleaning purposes, for polishing, and for smoothing surfaces and edges of parteboard and surfaces of word, metal, and other material. It is imported from the Lipan I sless.

"Punoh," the leading English humorous publication,

Punch," the leading English himorous publication, was established in 1811, and has had among its editors Mark Lemon, Shrifey Brooks, Ton Taylor, Sir F. Burnaud, and now Mr. Owen Seaman. Among its contributors it has numbered Plackeray, Douglas Jerrold, Tom Hood, Gilbert a Beckett, and its artists have included Richard Dayle, John Leech, Sir John Tenniel, Charles Keene, George du Maurier, Phil May, Linley Sambourne and Bernard Partridge. It adopted a partly colouned cover ur rota. adopted a partly coloured cover in 1913.

Punt, a 'small, flat-bottonied boat, used for fishing

and ferrying, propelled by pushing a long pole against the bed of a stream.

Purgatory, the place where, according to the Roman Catholic doctrine, the souls of the dead find

Roman Cathous dectrins, the souls of the fead not temporary habitation while undergoing purification.

Puritams, the name originally given to the followers of Calvin in England in the time of Elizabeth, and alterwards applied to dissenting bodies generally, who took sides against the Stuarts and High Church party when Parliamont was in civil conflict.

Pylon, the name given to the huge monumental gateways erected in front of ancient Egyptian temples or other public buildings.

Pyramids of Egypts, near Cairo, on the left bank of the Nile, are vast masses of brick or stone with inner chambers and subterranean entrances, dating from about 250 B.C. The largest was built by Cheops, the Egyptian king, for his toesh, and there he was buried, 100,000 men being employed for 20 years upon it. This is cauled the Great Pyramid, and has a helpht of 480 feet, and in base is 764 feet square. It is supposed to have been originally enclosed in a marble casing. The brother and successor of Cheops erected the second pyramid, and the third was built by Mycerinus, a son of CReops. The second and third Pyramids are considerably inferior in size to the Great Pyramid, though even they are of vast proportions. Much has been written about the Pyramids, one of the most informing books upon the subject being that of Richard A. Proctor, entitled The Great Pyramia: Observatory, Tomb and I emple.

Pyroxene. (See Augite.)

Pythian Games were one of the four great Greek testivals in honour of Apollo and Diana, when contests of many kinds were indulged in and palms of Laure D branches were distributed as prizes. These games took place every fourth year near the temple of Delphi.

games took place every fourth year near the temple of Delphi.

Python, one of the largest kind of snake, non-poisonous, and destroying its prey by crushing it. Some species average 30 feet in length, and prey upon deer and other small mammals. It is found

only in the Old World.

Quack is one who pretends to possess medical skill for the purpose of making money. Although not so numerous now as in former times, quacks are still to be found in all countries and draw their victims from every class. There is nothing to prevent a nan ollering a remedy or a person taking that remedy in the ordinary course: but if fraud can be proved, or a quack does injury by what he persuades people to buy, he is liable to prosecution.

"Quad," the quadrangle, as of a college or gao! hence the slang name quad for "quod" for a prison. Quadra is the name given to a square border enclosing a bus-relief, also a fillet or hand in an lonte base moulding, enclosing the social or hollow;

Ionic base moulding, enclosing the scotia or hollow; also the plinth or lower member of the podium, in

the lonic style,
Quadragesima Sunday is the first Sunday in
Lent, the forticth day before Faster,
Quadrans-Muralis, a small northern constella-

tion, with no large stars.

Quadrant, an astronomical instrument for measuring altitudes, superseded in modern times by the sextant. It consists of a brass arc of a circle co sextant. It consists of a brass are of a circle go degrees in length properly graduated. There are numerous quadrants used in navigation.

Quadrille, adapted from an old Figench country dance, became ashionable in France and England in the early part of the 10th century. See Pears' Dictionary of Sports and Passimes.

Quadroon, the offspring of a white person and a half-breed or inulatto, representing three-fourths white to one-fourth black.

Quadrumana, an order of mammals deriving the name from the fact of their being "four-handed" that is, being able to use the hind feet as well as the fore feet as hands. To this order belong apes, monkeys, and lenurs. The term is not much used now, Primates, in later classifications, embracing the quadrumanous annuals and also man,

the quadrumanous annuals and also man.

Quadruped, the term applied to four-footed animals
generally, irrespective of class or species,

Quadruple, Alliance denotes the combination
for defence or attack of four powers. The most
noted have been those of England, France, Austra
and Holland in 1718, to maintain the Treaty of Utrecht;
and that of 1814, under which England, Austria,
Prussia and Russia combined against Napoleon.

madruple Treasy, signed in London on the zand April, 1834, by the representatives of Great Britain, France, Spain and Portugal, for securing the Spanish throne to Isabella II

Quession, an official appointed to guard the public treasure in ancient Rome. At first two Questors sufficed; then the number was increased to eight; and under Julius Casar there were 40.

Quages, an African quadruped of the horse species, striped like a zebra on the neck and head, but not

striped like a zebra on the neck and head, but not on other parts. It is now extremely scarce.

Quahod, a bivalve of the clam order, with large round shell, highly valued as a food. It is chiefly confined to the Atlantic coasts of North America.

Qualit, a bird of the partridge family, of which only one species, the Common Qualit is found in England. It is not more than 8 inches long, and is an estcemed table bird. It is common in most of the warmer regions of the Old World, and there is a species in America to which the name is amplied but 'thus hird regions or the Old World, and there is a species in America to which the name is applied, but this bird does not strictly belong to the quali family. The peculiar dactylic call of the extremely pugnacious male bird of the Common Quali species has given rise to its popular rustic name "Wetny-lips, Wetny-feet," from a fancied similarity of sound.

Quair, an old name for a pamphlet, or little book. Quaker, and of asset for a pampilet, or little local Quaker, the popular name for members of the Society of Friends, a religious sect founded by George Fox about the middle of the 17th century. In matters of belief they do not differ materially from other Protectant bodies; the chief difference is in worship, Quakers having no prescribed formulas, They assemble in what they call their Meeting Houses, and any one in the congregation exhorts the amenby as he of she may be individually prompted. They only speak as the saying is, "as the Shurt moves them." Shert meetings are not infrequent. The ordinances of baptism and the Lord's Supper they reject. They object to swear upon oath, and up to 1833 were punishable by law for this refusal; up to 1833 were punishable by law for this refusal; since then they have been permitted to afirm. Until recent times they adopted great simplicity of attire, and in addressing people used the second person singular, but gradually have conformed more to common usage. Many Friends have attained distinction both in public life and in business, and as a body they are highly respected for their honourable dealing. William Penu was one of the most prominent of the early Quakers, and introduced the rollignon into America. The term Quaker was first applied to the sect because of the founder's frequent use of the word "Tremble" in his exhortations. The number of members of the Society of Friends in England and Wales is over 18,000, and in Ireland about 2.00.

about 2,500,

Quare Impedit ("Why he hinders"), the title of a
writ calling upon any person interfering with the
rights of the owner of a presentation to a benefice to show cause why he impedes.

Quarrel, the old name for a dart or bolt, shot from a crossbow or catapult in war, before the employment of firearms.

Quart, a measure of capacity, a quarter of a gallon,

Quarter, a fourth part—as, a quarter in avoirdupois weight, that is 28 lb., a quarter of a hundredweight; eight bushels.

Quarter-Days in England are Lady Day (March agth), Midsummer Day (June 44th, Michaelmas Day (September 39th), and Christmas Day (December 39th). In Sociand the legal terms are Whitsan (May 19th), Martinmas (November 11th); the Conventional terms Candlemas (February 2nd) and Lammas (August 18t) make up the quarter-days.
Quartering, in heraldry, is the disposition of various escutcheons or coats of arms in their proper "quarters" of the family shield, in such order as indicates the altiances with other families "Quarterly Review," the great Tory quarterly, was started in 1809, in opposition to the Edunburgh, the Whig organ, established seven years earlier. Gifford was its first editor.

Quarternaster, a military officer charged with the provisioning and superintendence of soldiers in camp Quarter-Days in England are Lady Day (March

or barracks, and holding the equivalent rank to a lieutenant. The Quartermaster-General is an officer who presides over the provisioning department of the whole army. A Quartermester in the Navy is an officer charged with the steering equipment.

Quarter-Sessions, a quarterly criminal court held by justices of the peace in countless and by Recorders in boroughs, having jurisdiction in minor offences, highway and Poor Law administration, etc. In Ireland quarter-sessions are held by county court judges. In Scotland a court of quarter-sessions is held in the county towns by the justices, who have power to revise sentences passed at special and power to revise sentences passed at special and

power to revise sentiates percentage of a stout pole some 6 feet long, which was grasped in the middle and could be swung with telling force in defence or attack. Combats with quarter-staves

were frequent in Norman times and later.

Quartet, a musical composition in four parts, vocal or instrumental. String quartets, consisting of first and second violin, a viola, and a violoncello were most in vogue in the 18th century, and some of the finest instrumental music we possess was composed for these instruments.

tor these instruments.

Quarto, a sheet of paper folded to make four leaves, or eight pages; usually abbreviated to "4to."

Quartodecimani, an early Christian community who celebrated the Paschal festival on the 14th day of the month, when the Jews celebrated their Pass-over. In consequence of the confusion cauved, the practice of the Quartodecimani was condemned by the Council of Nice in 325. Quartz is a common and usually colourless mineral,

PUBATE is a common and usually colourless mineral, abundantly diffused, and occurring crystallised and massive. In the first form it is in hexagonal prisms, terminating in pyramids. When pure its specific gravity is 2'66. It is one of the constituents of granite, graess, etc. Among the quartz varieties are rock crystal (colourless), smoky quarts (tinged, as yellow obps. amethysis, and sapphire), ordinary or false, milky quarts, and rose quarts. Quartz velns in metanorphic rocks often yield rich deposits of gold. Mining for gold in the rock is termed quartz-minure.

of gold. Mining for gone in a somewhat false resemblance, and used as a prefix to other words.

Quastle, a Latin term implying a somewhat false resemblance, and used as a prefix to other words.

Quastle, a genus of plants of the Sinarubacee order, with five-lobed callyx. There are two species, the most commonly known being a native of tropical the ather of Africa. It viselds a drug called America, the other of Africa. It yields a dring called bitterwood, much valued as a medicine. The negroes use it as a fever remedy. In commerce the product of the bitter-ash and other allied trees is generally substituted for quassia.

generally substituted for quassia, Quaternary Deposits, or Post-Tertiary, are the latest stratified rocks of the oarth's crust, and include the Glacial, post-Glacial, and Recent systems.

Quaternions, a mathematical method invented by Sir William Rowan Hamilton, based upon mental transference or motion by vectors, four numbers being involved; hence the name. The system, though intragate, is of great use in the column of

being involved; hence the name. Inc system, though intricate, is of great use in the solving of problems in solid geometry.

Quatra Bras. Battle of, was fought in the Belgian village of that name two days before the battle of Waterloo (June 15, 1875). It resulted in the defeat of Ney's army by the British and their

Quatrafoil, in architecture an ornament, plercing, or panel, resembling the four petals of a cruciform flower, largely used in the English Perpeadicular style, and less frequently in the Decorated.

Quattrino, an Italian coin of about the value of an English farthing.

English farthing.

Quaves, a note of music, equal to ono-eighth of a semibreve est one-fourth of a minum.

Queen, a femala covereign. The first queen of which there is historical record is said to have been which there is historical record is said to have been Sebeknefrara, of the zath Theban dynasty, who reigned about 1650 h.C. The queens of England have been Mary I., who reigned 4 years; Elizabeth (45 years; Mary II. (jointly with William III.) (6 years); Anne (ra years); Victoria (63 years).

Queen Anne's Bounty, a fund established in the reign of Anne (1704) for augmenting small church livings and aiding in rebuilding personages, etc. Its income is derived from tithes, Parliamentary grants, and private gifts, the latter in 1911 amounting to

and private gifts, the latter in rost amounting to face, and private gifts, the latter in rost amounting to face, so, in respect of to luvings, and the henefactions received to fate, by The governors of the Bounty hold securities to the value of fate, so, co.

Summa Lanne's Farkhings are supposed to fetch very high prices, but ordinarily they are not worth more than fates. Those with the emblements design of "Feace in a Car" engraved on them, which are extremely rare, realise for cores.

Summar Stellans. Not long ago the school children of Coisterworth, near Grantham, went out on strike against one of their masters. Other queer strikes may be recalled. The executioners of Canton went out on strike against an strike and the strike one, complaining that unless they got more than so cash in a stilling a head they would starve; the female prisoners in Wormwood Scruber fracture; the female prisoners in Wormwood Scruber fracture; the laundry fires, work which had previously been the laundry fires, work which had previously been the price of their strikes one man against an integer of convicts; the beer drinkens of Bamber History. Convicts; the beer drinkens of Bamber History. The principal of their strikes of the second exvourte beverage; the barristers of St. Amand struck as a protest agrants the "tyrannical attitude" of the presiding judge; and among other bodies who have adopted this form of protest against grievances within recent years are paupers, choir-boys, ministers (who considered a pound a day "little better than an insult"), commercial travellers, and undertakers' men.

Queles, a name given to the crimson-beaked weaver bird of Africa.

bird of Africa.

Queroiteons, the bark of a species of American cak, from which a yellow colouring matter is obtained. It is also used in tanning, Querra, a form of stone handwill for grinding corn, in use in early times. It consisted of two flat stones, the upper revolving on a pin unserted in the lower. Quickallwar., (See Marcaury.) Gristians, a doctrine first expounded by a Spanlard, Miguel Molinos, in the 17th century, and serving for the foundation of a sect in France which was joined by many distinguished people. It dispensed with rites and coremoutes, and claimed that the mercies of God and the ments of Christ were sufficient for a man's religious needs. Blaziane Guyon was a man's religious needs. Madame devoted Quietist of the 17th century. Madame Guyon was a

devoted Quietist of the 17th century.

Quillas for writing with were first used in the 6th
century, and superseded by steel pens in the 17th.

Quince, a well-known hardy orchard tree of the pear
family, bearing fragrant, yellow, pear-shaped fruit,
largely used for preserves. A muchage is made from
the seeds, which also possess medicinal virtues.

Quinaleaean vis, one of the fiftoen ancient Roman
magistrates appointed to keep charge of the Subylline
books, and called prests of Apollo.

Quinaleaea a vegetable alkali obtained from the bark
of several trees of the Conchona genus. It is
extremely bitter and colouriess. The drug, subhate
of quinine, is one of the most valuable medicines,
forming a powerful tonic. It is antiperiodic, antipyretic, and antineuralgic. In cases of malaria it is
the most efficacious simple remedy known.

pyretic, and antineuralgic. In cases of malaria it is the most efficacious simple remedy known. Quintain. a tilting post, from the top of which a board was suspended horizontally for the tilters to strike at with their lances. Quintail. Metrique. a French weight of soo kile-grammes, or see list avoirdupois. Quintail, a musical composition of five parts, for voices or strings. Quintilians, the name given to certain heretics of the and century, who used bread and cheese for the Eucharist and permitted women to be briests. Thair Bucharist and permitted women to be priests. Their leader was a Roman woman named Quintills. Quirinal, one of the seven hills upon which Rome was built.

was out. Suisoalus, a class of birds of black plumage belonging to Passers order, popularly known as Boattails, because of the feathers of the tail being turned
up. They are confined to the Southarn States of
North America and Central and South America.

Quiver, a receptacle for arrows. In olden times, when exchers were the main portion of an army, quivers were of leather, and deep enough almost to cover the arrows.

Puorum, a term indicating the number of me of any body or ecanony necessary to be present at any meeting or commission before business can be transacted. Forty members constitute a quorum in the House of Commons.

the House of Commons.

Que Warranto ("By what Authority"), a form of
writ which has existed in England since rate, and is
a direction to the proper authorities to inquire into
the circumstances under which any office or franchise
is held. The proceedings in such cases at the
present day are by "information."

Rabbi, a Jewish term applied to specially ordained officials who pronounce upon questions of legal form and ritual, and also generally accorded to any Jewish scholar of eminence.

Jewish scholar of eminence.

Rabbits, a rudent burrowing mammal, a native of
Europe but now common in other countries where it
has been introduced and multiplied enormously,
especially in Australia. In its wild state it has a
brownish fur, while in its domesticated varieties it is
of many colours—grey, white, black, and pied. Wild of many colours—grey, white, black, and pied. Wild rabbits have erect ears, but in some domestic breads the ears are long and droop, hence the term lop-eared. They breed rapully, rearing several litters a year. The fur is utilised for hats and other purposes, and

The fur is utilised for hats and other purposes, and the flesh is a popular stricle of food.

Racahout, a substance made from the acorn of the belote or Barbary oak, and much used as a food and medicament by Arabs. An admixture of the same name, with various added ingredients, is sold in France.

Racema, a botanical term indicating flowers of a clustering and pendant form, the individual blossoms being borne on simple stalks granged round a single

being borne on simple stalks arranged round a single common axis.

Rack, an ancient instrument of torture, consisting of a platform fitted with bars, one of which was mov-able. The feet of the victum were fastened to one bar and the hands to the other; then by means of the movable bar the limbs were stretched to great tension-scoretimes but the imms were stretched to great tension-scoretimes to the point of dislocation-and the torture was continued either until the tortured one "confessed" or became senseless.

Rack-rent, rent of the full yearly value of sthe property held. A term generally used to denote excessive rent.

Rack-work, a piece of mechanism in which a rack is used; a rack-and-pinion arrangement or the like,

A rack in this sense is a toothed-bar, adapted to work into the wheel teeth.

work into the wheel teeth.

Rancon, a planturede carnivorous mammal, common to the American continent. Is about a feet long, with a bushy ringed tail, and sharp snout. Its akin is valuable. The raccon has the peculiar habit of dipping its food in water before eating it.

Radelliffe, Library's, Oxford, was founded under tha will of Dr. John Radeliffe, who died in 1714, leaving £40,000 for that purpose. The Library was opened in 1749.

Raddanks, a classification of the snimal kingdom adopted by Cuvier, and including the Protoses, Polyacos, etc. This classification, however, is not now followed, the members of it being arranged in scongrete groups.

separate groups.

Radicals, as the name of a political party, dates from about 18t6, when the Reform movement began to assume prominence, and "Radical Reform" was vigurously agitated for: ordinarily the term means proceeding from or pertaining to the root of any matter or body. arate groups.

matter or body.

Badfonestar, an instrument invented by Sir William
Crookes in 1975, for transforming radiant energy into
mechanic force. It consists of four horizontal arms
of fine giass, poised so as to revolve estily on a paint,
and is enclosed in a glass or metal tube almost
exhausted of air. The arms move under the influence
of light and heat, according to the strength of the mays.

Radium, a remarkable element discovered by Madame Curie in infinitesimal quantities in prich-blende, and possessing an astonishing degree of radio-activity, giving off heat and light with an intensity not approached by any classical statements. activity, giving off heat and light with an intensity not approached by any other substance. It is about 268 times as heavy as hydrogen, and according to Sir Oliver Lodge 100,000 electrons of radium could lie in the diameter of an atom. It is assumed that radium is present in the sun, and some scientists hold that in this element we have probably what may solve the problem of the material universe. As yet, however, it is impossible to foreshadow the extent to which radium can be practically utilised. The Radium Institute, founded and equipped by Lord Iveagh and Sir Ernest Cassel, was opened on August, 1911, for the treatment of patients and the prosecution of researches into the effect of radium on the human system.

Radius, in geometry, is the measurement of a straight line marked from the centre to the circumference of

a circle or curve

Based Schools were established in this country in 1844 by number of philanthropists headed by the Earl of Shaftesbury, with the object of educating and protecting very poor children. There are now hundreds of such institutions in the United Kingdom.

nuncreas or such institutions in the United Kingdom.

Ragasone, the popular name for the class of sandstone which shows a ragged fracture on breakage.

Kent rag is a familiar example.

Rail, a well-known genius of the Rallida family—one
species of which—the Water Rail—is common in
various parts of Continental Europe, and also in the
fen districts of England.

Rail way Classes. Some thirteen hundred million
passenuers are carried by the railways of the United

sengers are carried by the railways of the United passengers are carried by the salaways of the kingdom, Of these (exclusive of season-ticket holders) about 30,000,000 travel first-class; over 38,000,000 second class; and over 1,248,000,000 thredclass. From November 1st, 1844, every railway company was compelled to run one train a day company was compelled to run one train a day each way between all as stations, and to convey passengers at a penny a nule. This was the work of Mr. Gladstone while President of the Board of Trade, from 1843-45. In 1872 the Midland announced that third-class traffic lass increased except in 1900, while the other classes have decreased. Railways of the World. There is invested in the world's railroads over £9,250,000,000. Europe accounting for about hif the total capital, and the United Kingdom for over £1,300,000,000. The pallways of Europe represent an investment of £29,950 a mile, while those of the rest of the world average £11,400. Great Britain's railroads represent

\$22,950 a mile, while those of the rest of the world average \$51,30. Great Britain's railroads represent the highest cost per mile, the figures being \$55,368, while those of Belgium com next with \$55,068. From total railway mileage of the worl is about \$670,000 miles; the United States ading with \$25,000 miles; Russia has \$4,000; Germany, \$9,000; Indra, \$3,000; France, \$1,000; Australia, \$18,000; Antra-Hungary, \$8,000; the United Kingdom, \$2,417; Canadi, \$2,750, Argentine, \$20,000; Moxico, 10,000; Brazil, \$4,000; Italy, \$1,000; Spain, \$1,000; Japan, \$5,500; Switzerland, \$2,000. Anter discharged from clouds in drops, and formed of the aqueons vapour of the atmosphere, derived from the evaporation of water both from sea and land. Before it reaches the earth it is the purest form of water known. The heaviest rains occur in equatorial regions, and the smallest in the deserts.

and land. Before it reaches the cartin is no potent form of water known. The heaviest rains occur in equatorial regions, and the smallest in the deserts. Rain Gauge, an instrument consisting of a deep metal funnel whose stem dips into a graduated glass jar and measures the rainfall dropped in it. As Rajah, the title of a Hindoo prince, once equivalent whose of home her wow only implying chieffainship

Eajan, the title of a limdoo prince, once equivalent to that of king, but now only implying chieffaiuship in the native states of our Indian Engire.

Eamadan, the time of the Mahomedan Lent, the 9th month of the Moslem year, a movable period fixed according to lunar culculation. It lasts for thirty days, and all good Mahomedans fast in Ramadan from sunrise to sunset each day, during the internal force muses to sunset hains at liberty. the interval from sunset to sunrise being at liberty

to eat, drink, and make merry.

**Rambler (The)," published by Dr. Johnson twice a week while it lasted.

Rambouillet was a royal French château some ag miles from Paris, and served as a royal residence for nearly three centuries. Francis I. died, and Charles X. abdicated, there.

Ramie, or China grass, a plant largely grown in China, Japan, and other parts of Asia. From its fibre many beautiful lustrous textiles are manufactured in China and Japan, and more or less successful attempts have been made to establish the industry in England.

successful artempts have been made to establish the industry in England.

Ramillies, Battle of, was fought on May 23, 1706, between the English and German forces and the French and Bayurians, when the latter were signally defeated. For his great achievement on this day the Duke of Mariborough was accorded high reward and honours.

high reward and honours.

Ramism, the logical doctrine propounded by Pierre de la Ramée, opposed to that of Aristole, and the subject of some controversy in the 17th century. Milton wrote upon it, and for a time it was in favour at Cambridge University.

Rampans, in heraldry, is a term applied to the figure of an animal with forelegs elevated, the decter uppermost. When the animal is shown side-faced it is rampant displayed, when fullace, rampant guardant; when looking back, rampant reguardant; and when in sitting position, rampant sejant. rampant sejant.

Rampion, the common name for plants of the bell-

Rampur Chudder, a kind of fine woollen shawl made at Rampur m India. Ranelagh Gardens was a fashionable public garden at Chelsea for concerts and dancing in the

Ranters, and existed down to 1804.

Ranters, a name applied at one time to the Primitive Methodists, a body who separated themselves from the Wesleyan Methodists in 1810, and by Ranters their more demonstrative practices, such as street preaching, camp meetings, processions, etc., attracted

much popular attention pronounced "Rauntz Day Yaches" a Yaches (much popular attention pronounced "Rauntz Day Yache") a Swiss herdsman's melody, played on the alpeniorn, as a call to the cows. As played in the open air, with the mountain echoes answering, it is

very effective.

Rape, a cruciferous plant yielding coleseed or rape-seed, extensively grown in all parts of Europe and India. Rape oil or colza is made from the seeds, and the leaves and refuse are used for sheep-food. And oil is a yellow, tinck oil, of considerable commercial importance as a lubricant and for other purposes. It was at one time much used as an illummant. Raphides, crystals of calcium oxalate, found mostly the relies of cluster of the column of little, force

Raphides, crystals of calcium oxalate, found mostly in cells of plants of the palm and lily order.

Raptores, an order of birds of prey, of which there are upwards of 500 species, divisible into two main sections, Futconside and Strigides, including in the first eagles, vultures, hawks, falcons, etc., and in the second owls and other nocturnal birds of prey.

Rastadt Treaty of Peace, between the French and Germans, was signed on the 6th March, 1714, and closed the War of the Spanish Succession.

Rat, a well-known order of rodent embracing many species. The brown and answer of m Eurone early species.

Rat, a well-known order of roders embracing many species. The brown rat appeared in Europe early in the 18th century, coming from the East and entering by way of Russia: now it is widespread and met with in Britain and all parts of the Continent. The black rat, which was the common rat before the arrival of the brown species, is a smaller animal and now comparatively scarce. There are numerous other kinds, all of them gross feeders, and existing in such numbers in many places as to constitute a pest. Very active measures of extermination have lately been adopted.

Ratel, a carpivorous animal of the badger family, having the sower part of the body black, and the upper part a light grey. It is found in India and at the Cape, and is often styled the "honey-badger" because of its honey-eating propensities.

Rationalism claims to decide nutters of belief and doctrine by the test of reason. It recognises only

doctrine by the test of reason. It recognises only what is demonstrable by science, rejects supernatural authority and revelation, but does not entirely deny

the existence of a God or the immortality of the soul. A sect calling themselves Rational Christians first obtained registered places of worship in this country in 1896; they claim that their methods of investigating religious matters are more rational than those of Christians attached to other recognised denomina-

Ratition, a bird classification which includes ostriches, cassowaries, emus, and other flightless, flat-breasted birds.

Rattening, a term applied to the act of concealing or taking away workmen's tools to prevent them being used during trade disputes. The word came into use at Sheffield and thereabout during the great

labour disputes of 1867.

Rattleanske, a genus of venomous snakes which obtain their name from the possession of a rattle in the end of their tail, consisting of horny pieces so arranged that when vibrated they make a rattleagound. They are only found in North and South

Rayelin, a form of detached fortification of triangular shape, with two embankments constituting a pro-

shape, with two embankments constituting a projecting angle.

Rawan, a black-plumaged bird of the crow family, with raucous voice and massive bill. Occurs in many parts of Europe, Asia and America. Ravens are easily domesticated and form interesting pets. Dickens had one which he turned to good account as the companion of "Barnaby Rudge."

Ray, a kind of fish with a very flat body and broad and fleshy pectoral fins. There are about 140 species, In Britain they are generally called skate.

Razor Bill, a sea-bird of the ank family, having a high, furrowed bill, and dark plumage. It inhabits rocky cliffs during the breeding season and at other

rocky cliffs during the breeding season and at other times is mostly out on the open sea. It lives ex-clusively on fish, which it catches by sudden diving.

Readers, a class of ministrants introduced in the Church of England in 1866 and still continued. Their duties are to read certain portions of the Service and otherwise to assist in church work, though they are

not ordained or entitled to be styled "reverend."

Real, a silver com current in Spain, Mexico, and
South America, and worth about 24d. English.

Realgar, a mineral of a reddish colour formed in crystals and also granular, in China, Mexico, and some parts of Central Europe, and is a compound of arsenic and sulphur.

Reaping Machine, in its present practical form,

is an American invention which cuts down standing is an American invention which cuts down standing grain and binds it in sheaves ready for carting. The leading machine of this kind is the invention of McCornick. Several reaping machines were pre-viously devised in this country, but they were crude efforts in comparison with the present effective harvester and binder.

Rebeccaites were a secret Welsh organisation existing in 1843, whose object was to destroy toll-gates, which were so numerous as to be a burden to the people. They dressed in women's clothes, and called themselves "Rebecca's daughters," with called themselves "Rebecca's Gaughters," what particular reference to the passage, "And they blessed Rebecca, and said unto hor, Let thy seed possess the gate of those which but them." They went abroad in the night-time and did much destruction. A general relief from highway tolls followed after a commission of inquiry.

followed after a commission of inquiry.

Rabus, a kind of word-puzzle in which pictures of
things are given in place of words and letters. For
instance Ramsgate might be represented by a couple
of raus and a gate. These picture puzzles afforded
much amusement to the leisured class of the Middlo
Ages. The name of Aldershot is a perpetuated
robus, the arms of the town including representations
of an alder tree and uvramidal boass of shot

of an alder tree and pyramidal hoaps of shot.

Rocent Formations, in geology, are the newest statt or beds, and represent a period late than the Pleustocene. The fossil deposits of these formations

Stratt or occus, and services of these tormations are mainly similar to existing species.

Rechabites, members of asciety of total abstainers from intoxicating drinks. Rechab, father of Jonadeb, refused to drink wine, build or live in houses, sow seeds or plant or own vineyards. The

modern Rechabites do not carry their abstention further than refraining from intoxicants.

Recitative, a style of singing only slightly removed from ordinary speaking, and utilised for narrative portions of operas, oratorios, etc.

Recitage, one who withdraws from the world to devote himself in solitude to religious meditations.

Recorder, a judge of a city or borough having a court of quarter-sessions. The Recorder of the City of London is elected by the Lord Mayor and Aldermen, but other recorders are barristers of eminence appointed by the Crown.

Record Office, in Chancery Lane, London, the place where the Public Records of England are now preserved, including Domesday Book, the various Rofts of Charters, and important historical documents from a remote period.

Rofs of Charters, and important bistorical documents from a remote period.

Recreative Religionists was the name given to a body of gentlemen who sought to popularise natural religion by courses of scientific lectures. These lectures were delivered by such eminent men as Huxley, Carpenter, and o'hers, and from 1866 onward for some years were very popular, and led to the formation of the Sunday Lecture Society.

Rector, a clergyman having charge of an ecclesiastical parish, and entitled to receive all the tithes. The same title is borne by the head officer of some of the Universities and Colleges.

Recusants was the name given to such people as refused to attend the Anglican Church or to acknowledge the ecclesiastical supremacy of the Crown in the days of Elizabeth. Severe penalties were incurred by these persons, who were mostly Roman Catholics, and the Act continued in force for a considerable period. Though dissenters were relieved from 1699, the Act was not fully repealed till 1844, the least of terrification seminated to the force for a considerable period.

till 1844.
Redan, a style of fortification consisting of two parapets or mounds of earth in angle form, the apex

pointing outward.

Red Crag, the name given to a strata of incoherent gravel or sand, containing certain fossil mollusc deposits, found on the Sulfolk and Essex coast, and largely used in manure manufacture.

and argety used in manure manufacture.

Red Cross. (See Geneva Convention.)

Rede Lecture, at Cambridge University, was instituted and endowed in 1524 by Sir Robert Rede, chief Justice of Common Pleas. These lectures were superseded in 1859 by an annual oration, which is usually given by an eminent scientist.

Red Letter Daw. a church featural day inducated the

Red Letter Day, a church feshval day indicated in the Prayer Book by red letters. It has come to be used in speech and writing to indicate any day

of special significance.

Redoubt, a term applied to enclosed fortified works generally, but more especially to a small area temporarily fortified as a place of retreat for a defending force.

detending force.

Redpole, a family of birds noted for bright crimson forcheads and crowns. They inhabit some parts of Southern Europe and of North America, are abundant in Western Asia, and are also represented by some British species, including the linet and the common redpole, both of which are admirable songsters

Red Sand Stone, the general name for red sand stone geological formations, this fly produced by the

stone geological formations, this hy produced by the disintegration of ordinary crystalline or metamorphic schists, oxide of non forming the colouring factor.

Redstart, the sub-family of the Saxacolome order of birds, confined to the Old World, and nearly allied to the Redbreasts. They have red leathers in their tails. The two species found in Britain are the common Redbreast and the Black Redstart, the former a winter and the latter a sunner visitant.

Redwing, a bird of the thrush family, which finds its way to this country for the winter. It is not so large as the common thrush, but it is very similar in its general colouring and structure.

as the common thrash, but it is very similar in its general colouring and structure.

Redwood, a great timber tree found in California, growing from 200 to 300 feet high and from 8 to 12 feet in diameter, with a bank from 6 to 12 inches thick. The wood is largely used for building purposes. There are several other species of red

wood in the East and West Indies, and the Scotch pine is locally known by the same name. C

pune is locally known by the same name. C.

Read. Instrument, any wind instrument of the
oboe or clarmet class, the sound of which is produced through a tongue or plate of read, wood, or
metal in the mouthplece, which when blown through
emits a musical sound, by the vibrations induced.

Refeatory, the name given to the eating room,
chamber or other apartment of a monastery, or
other place where meals are regularly eaten.

Referender, the name given in Germany to a
candidate for judicial office who has only passed a
portion of his examinations, and is filling a minor
position without pay.

osition without pay.

position without pay.

Referendum, a term applied to a clause introduced into the Swiss Constitution in 1874, providing that certain laws passed by the Legislature should not be put into force until referred to, or ratified by, the people generally. Also used to signify a note by an ambassador to his government on a point respecting

which he is without specific instructions.

which he is winous special instructions.

Reformation, the great religious movement of the 16th century, which resulted in the establishment of Protestantism. In the previous century Wychiffe, Huss and others had sounded the warning note, and Protestantism. In the previous century Wychife, Huss and others had sounded the warning note, and when later on Luther took up the cause in Germany, and Zwingli in Switzerland, adherents soon became numerous. The wholesale vending of indulgences by the Papal agents had incensed the people, and when Luther denounced these things he spoke to willing ears. After much controversy, the Reformers boildly propounded the principles of the new doctrine, and the struggle for religious supremacy grew bitter. They claimed justification by fatth, and the use as well as the authority of the Scriptures, rejecting the doctrine of transubstantiation, the adoration of the Virgin and Saints, and the headship of the Pope. Luther was excommunicated. But the Reformation principles spread, and ultimately a great part of Germany, as well as Switzerland, the Low Countries, Scandinavia, England and Scotland were wen over to the new faith. In England, Henry VIII, readily espoused the cause of the Reformation, his own personal quarrel with the Pope acting as an incentive Under Mary there was a brief and Sangunary reaction, but Elizabeth gave completeness to the work which her father had intated.

Reformation Schools, for the reclamation of

Batormatory Schools, for the reclamation of juvenile offenders, organated in France in 1830 The Philanthropic Society of London founded such an institution at Redhill in Surrey in 1850. Since then many other schools of this class have been opened,

institution at Redhill in Surrey in 1850. Since then imany other schools of this class have been opened, under government authority and inspection, and there are now some 45 Reformatory, 130 Industrial, 24 Truant and 24 Day Industrial Schools in existence in Great Britain, with about 23,000 boys and 5000 girls. In Ireland there are six such schools.

Reform Billia. The principal Bills have been passed for the Reform of the Parliamentary Franchise. The first was that of 1832, which in addition to a sweeping re-distribution of seats, granted the franchise to borough householders paying a for restal, and in counties to those with a rental of £50. The second Reform Bill was passed in 1867, conferring the franchise on all borough householders paying poor rates, on lodgers paying £102 aver, and to tennants in counties paying £102. A third Reform Bill, passed in 1884, practically gave household suffrage and effected a large measure of redistribution of seats. The Parlament Bill of 1912 may also be classed with Reform Bills, since it practically abolishes the veto of the House of Lords, and paves the way for the reconstitution of that hamber.

Bartages for destitute boys and gris were established in 1852, the first institution of the kind being in Great Queen Street in London.

Great Queen Street in London.

Bagalla, a term commonly used to indicate the ensigns of royalty, such as the crown, sceptre, swords of State, etc., which, in the case of the British insigna, are kept in the Tower of London; but in its stricter sense meaning the prerogatives of royalty, which are six in number—the power of judicature, of life and death, of war and peace, of estrays, etc., of assessments, and of minting money.

Regattas, which are boat or yacht races, were first introduced into this country in 1775, when the Thames was the scene of one of these competitions. Since then they have become popular institutions on the river and round the coast, and at Henley every year there is a very fashionable gathering at the Regatta there.

Regency Bills were the Acts of Parliament passed in the reign of George III., appointing the Prince of Wales (afterwards George IV.) to the Regency during his father's mental incapacity.

Regant's Canal, extending from Faddington-where it connects with the Grand Junction Canal-through Regent's Park, Islington, Hoxton and Hackney, to Lunchouse, where it merges into the Thames, it is o miles in length and for a considerable portion of its course is subterranean. It was opened in 1800.

opened in 1820.

Registeds, the name given to the commissioners who tried and condemned Charles I. They were zeo in number, of whom 70 acted and 50 signed the death warrant. On the Restoration most of those who were then hving were brought to trial, and zo out of

29 were executed.

Regiments, the name given to bodies of military forces forming the largest permanent unit commanded by a colonel. The Dragoon Guards, the Scots Greys, and the Royal Irish were formed about 1084, the Coldstream Guards in 1060, and the first regiment of Lancers in 1816.

Regium Donum, a royal gift in support of the Presbyterian munistry of Ireland, begun by Charles II. in 1672, and revived by William III, in 1690. A commutation of this allowance twas effected by a

special Act in 1871.

Regius Professor, a University Professor occupying one of the Chairs established by Henry VIII.

Oxford has eight Regins Professors, Cambridge three, and Dublin five.

Reiohdrath, the Austrian Parliament, comprising an Upper House of Princes, Nobles and Prelates, and a Lower House of 353 members. Reichates, the Det or Imperial Parliament of

Germany Reign of Terror, in France, practically dated from the ascendancy of Robespierre to his fall,

from the ascendancy of Robespierre to his fall, March 1793 to July 1794.

Reindeer, a genus of deer horned in both sexes, occurring only un hortherly regions. It has an average height of 4 feet 6 inches, is very fleet of foot, and the Laplanders utilise it for draught purposes.

Reilog are objects which the Roman Catholic Church

has declared to be worthy of special veneration, and comprise supposed portions of the Cross, bones and garments of saints etc., which are treasured in churches

garments of sank-etc., when are reasure an enumera-and shrines, and often attract large bodies of pilgrims. Relief in sculpture is of three kinds—high relief (alto-relievo), in which the figures stand out to the extent of one-half on their natural proportions, low-relief (basto-relievo) when the figures project but slightly; and middle relief (meazo-relievo), when the venderline is intermediate.

projection is intermediate.

projection is intermediate.

Religions are of more numerous kinds than can well be classified. At the present time, it is estimated there are throughout the world about 500,000,000 Christian adherents, including 270,000,000 Roman Catholics and 170,000,000 Topicestants; nearly 400,000,000 Confucians and Taolits, 270,000,000 Followers of Hindooism, 220,000,000 Manmedains, 140,000,000 Buddhists and 12,000,000 members of the Jewish faith.

Religious Tract Ecolety was founded in 1779, and circulates from 60 million to 70 million copies of the numerous multipations wearly.

and circulates from 60 million to 70 million copies of its numerous publications yearly.

Remainder, a legal term signifying a future condition of an estate, taking effect after its enjoyment by the present tenant is terminated. It does not "vest" une'l the event which will put an end to the precedent estate is certain of happening.

Remore, a peculiar family of fishes possessing a fiattened oval suctorial projection on the top of the head, by which the fish can attach itself firmly to the bottoms of vessels or other objects. The remora occurs mostly in warm seas and attains a length of about so inches in the tropics.

about so inches in the tropics.

Renaissance, a term designating the revival of classic ideals in literature, painting and architecture, a movement which was most prominently exemplified a movement which was most pronuncing exempliant in France, and lasted through the main part of the 15th and 16th centuries. The influence of the Kenalssance in Highland was mostly literary. Rennet, a substance obtained from the stonach of a calf or other sucking quadruped, and used for

curdling milk.

Repeater, the name applied to a watch that will strike the hour last past on the pressure of a spring. In the more modern examples the repeating extends

strike the hour axt past on the pressure of a spring. In the more modern examples the repeating extends to the striking of the quarters and nilinites.

Repleyin, a legal term indicating an action-at-law to decide whether goods taken in execution have been rightfully seized or not ornamentation produced by hammering up metal from the inside, so as to form distanct designs on the outer surface.

Representative Peers are peers elected by their fellow peers to, sit in the House of Lords—Scotland has 16, elected or re-elected for cach Parlament; Ireland has 26, elected for life.

Reptilla, the class of vertebrate animals including tortoises, lizards, snakes, crocodiles, etc. They are in general structural arrangement very similar to birds, and the theory of evolution indicates that birds are the descendants of the Reptilla.

Requiem, a Mass for the dead, musical settings of which lave been written by many eniment com-

which have been written by many enment com-

posers. Among the best-known Requiems are those of Palestrina, Mozart, and Verdi.

Reredos, the ornamental screen at the back of the altar or Communion table. It is often of a highlydecorative character.

decorative character.

Resine, are vegetable compounds largely employed in the industrial arts. They comprise india-tubber, repeated, in the industrial arts. They comprise india-tubber, representation, a protective article worn over the mouth by persons affected with throat or lung disease, to prevent their breathing the raw cold air or fog. Ordinarily it is made of wire gauze so conor fog. Ordinarily it is made of wire gauze so contrived that the air in its passage into the mouth is slightly warmed. Respirators charged with filtering substances have been introduced.

Respondentis, a legal term applying to maritime contracts, mortgaging ships and their cargoes for money advanced; differing from a bottomry bond in the neighbor.

the extent of the pledge.

Rest, a musical term denoting silence or cessation from playing for the period represented by the character of the rest. Thus, there are minim, semiforeve, quaver, and other rests, which represent the same lengths of silence as the notes themselves would esent in sound.

Retriever, a variety of the domestic dog useful to sportsmen for bringing in game that have been shot. It is a capital water-dog, and is usually of a black or

brown colour.

brown colour.

Revelation. (See Apocalypse.)

Revolvar, a revolving pistol provided with a number of chambers (sax being the usual number), each of which can be fixed in succession by the pulling of the trigger. A weapon of this kind existed in the ryth century, but it was not until 185t, when Col's revolver was introduced, that a really serviceable small arm of this class was available. The principle of the revolver has been adapted to breech-loading guns, as in the mitralleuse and the mauser.

**Revuedes Deux Mondes," the famous French fortnightly review, which has been contributed to by the greatest writers in France; started in 1831.

wringnty review, which has been contributed to by the greatest writers in France; started in 1821. Rhastle Bede, a term applied to certain strata which connect the Lins and Trias formations. They shound in fish fossils, and occur at Penarth in Wales and in certain parts of the Alps.

Rhea, a large bird of the octrich fanily, a native of America, and the only species of the Ratitize known on the American continent.

Rhegus, the name of one of the sacred monkeys of India. It is abundantly distributed over the hills and plains, and is about 18 inches long and of a wish-brown.

Rhinoceros, a huge hoofed quadruped, of which

there are nine existing species; native to the river and marsh regions of Africa, India, Borneo and Java. It is remarkable for its thick hide and upturned snout, from which springs a long horn. The white rhinoceros, which is scarce, is the biggest species, attaining a length of 10 to 12 feet and a height of from 5 to 6 feet. The black rhinoceros is the most familiar.

the most familiar.

Rhodium, a scarce metal discovered by Dr.

Wollaston in 1604 in platinum ores.

Rhynchops, a genus of birds of the gull family,
inhabiting the tropical parts of Africa, India and
America. They are noted for their large curved
bills, the upper smadible of which is much shorter than the lower one.

than the lower one.

Rialto, a famous bridge that crosses the Grand Canal
at Venice, and dates from 150.

Ribbon Flash is a deep-sea fish, deriving its name
from the ribbon-like shape. Though many feet in
length, it is only an inch or two thick. By reason of
its keeping to the ocean depths, the ribbon fish is rarely met with.

rarely met with.

Ribbontam, a term applied to an agitation got up in Ireland about rêzo by a secret society whose object was to avenge upon landlords what the conspirators considered the wrongs of tenants. Many agrarian crimes were committed by the members of this society between 18g8 and 1871, when a special Act

society between 18g8 and 18g1, when a special Act was passed for their repression.

Ribbons, strips of fine fabric, usually made of silk, velvet, or satin, and in a great variety of colours and designs. They came into vogue in the rich century. Coventry is at present the chief seat of the ribbon industry in England.

Ribbon Seal, a kind of seal found in the North Pacific, remarkable for being ornamented with an almost white broad band along its back and around its neck.

Pleas. a prain-vielding grass extensively cultivated in

Rice, a grain-yielding grass extensively cultivated in India, China, and certain parts of America, and forming the india and Chinese peoples. Rice to the value of nearly three million pounds sterling is annually imported into this country. Arrack, an alcohouc liquor, is made from fermented rice seeds.

fermented rice seeds.

Ricolitéa, an ornamental stone, found almost exclusively in New Mexico, and presenting a series of
white, olive and green serpentine layers.

Ridex, the popular name of a Dutch gold coin first
put into circulation in the roth century, but not now
in use. Its name was derived from its having
engraved upon its obverse the figure of a horseman.

It weighed about 50 grains. A coin of the same
name was issued by James VI. of Scotland, afterwards James I. of England.

Rifle, a firearm, grooved in the barrel in order that the projectile may receive a rotatory motion on its

own axis upon expulsion.

Riffe Bird is a remarkably beautiful Australian bird of a deep glossy black with olive-green and blue

of a deep glossy black with obve-green and blue metallic markings. It is of above all habits. It is only the male which are of such fine plumage.

Rights of Mana, the title of the declaration of the French National Assembly in 1798, proclaiming that all men have equal rights. Also the title of a famous book by Tom Paine, justifying the Revolution.

Rinderpest, an infectious cattle disease to which other ruminants are also liable. It apreads very quickly when once it breaks out, and over 50 per cent. of all the animals attacked do. It comes from Central Asia, and some of its visitations to this country have been attended by enormous loss of life in 1866, out of 180,740 cattle attacked, over 73,000 died. The disease brings about a congestion of the mincous membranes, and there is an entire cessation of nills secretion. of milk secretion.

Ring Dowe, a kind of wood-pigeon, common in Britain, and about 17 inches long. It is of a blue-grey colour, tinged with brown.

ging-money is supposed to have been in circulation among the ancient races of Europe, though the evidence on the point is not perhaps very conclusive. Numerous ring-shape pieces of broaze, however, have from time to time been discovered, which seems the property of the to favour the idea.

Binks, for roller-skating, began to be popular in 1875 and in the course of the next ten years similar places were started all over the country, but died down after a few years, to witness a revival, how-ever, in more recent days.

Not Act (The), was passed in the first year of the reign of George I., its object being to prevent riotous assemblies. In times of disturbance, when a breach of the peace is threatened, if a magristrate reads the Roit Act to a collected crowd of twelve, or more persons anyone refusing to disperse is liable to arrest and a long term of punishment.

Ritualists, the term used to designate an extreme

High Church section of the Church of England, who brought into the ceremony of public worship coloured vestments, lighted candles, incense, and other features of Romanist worship, and excited much opposition and contention. The practices other features of Romanist worship, and excited much opposition and contention. The practices were repeatedly condemned. A Ritual Commission was appointed in roye to receive evidence in regard to ceremonial excesses, and attempts are being made to arrive at a basis by which both High Church and Lew Church adherents can agree upon the subject of ceremonial. The report of the Ritual Commission, published in roof, concluded that the law of public worship in the Church of England had become too narrow for the present generation's religious life; and that the machinery for discipline had broken down. The Commissioners favoured the giving of greater power to Bishops for the suppression of objectionable practices, but beyond this no immediate remody of any effectuality or extent was suggested, and Ritualism remains practically unchecked.

Rix-Dollar, the name of a silver coin current in Germany, Sweden and Demmark up to the early part of the 19th century and worth about 5.

Roach, a well-known fresh-water fish of the carp family, not often reaching more than a couple of rounts in wearth.

family, not often reaching more than a couple of pounds in weight.

Roburite, a flameless explosive invented and adopted in Germany in 1988. It is composed of chlorinated dinitro-benzene mixed with sufficient

ammonium nitrate to oxidize it.

Rock Butter, the name commonly given to petroleum when found in its semi-solid state.

petroleum when found in its semi-solid state.

Rookets for use in war were invented by Sir
William Congreve carly in the right century, and
proved very destructive in siege operations.
Rockets, as implements of war, however, are now
superseded by more efficient agents; but they are
still used for signalling purposes, while in that
connection their utility has been much increased in
recent years. Boxer's life-saving rockets are mostly
used in Enpland. used in England.

used in England.

Rookling, a marine fish of the cod family, distributed over the coasts of Europe, Iceland, Japan, South Africa, and New Zealand. There are eight known species, five of which are found on the British coast. This fish is remarkable for the number of barbels it carries around its mouth.

Rooks comprise the solid portions of the earth's crust, and all are composed of mineral substances and classed in reference to their various formations and conditions. (See Names of Different Rocks)

Rook Soap, a kind of clay or black bole of a sticky nature, used for washing cloth and in the manufacture of cravons. It is a hydrate of silicate of aluminium.

of crayons. It is a hydrate of silicate of aluminium.

of crayons. It is a hydrate of silicate of aluminium.

Bod, a measure of length equalling 5\(\frac{1}{2}\) yards, also called a pole or a perch.

Rodentia, an order of mammals of the gnawing class, and including all kinds of rats, nuce, aquirreis, porcupines, hares, rabbits, etc.

Roe, the parts of fishes which extend on each side of the ribs in loles next to the untestines. What is called "hard roe" is that of the female and consists of eggs; that of the male is the soft roe or milt. It is estimated that the ova in one conger-eel number many millions. many millions.

many minions.

Meebuak: a deer that was formerly coumon in the forests and parks of Britain, but is now only found at large to the northern parts of Soctiand. It is met with in many of the temperate regions of northern Europe and Asia.

Rogation Week begins with Rogation Sunday, the Sunday before Ascension day, and continues through the whole week, when extra prayers and supplications are offered as a preparation for the

ASCENSION.

Rois Faineants (King Do-Nothings), were the Merovingian Kings of France between 656 and 752, so-called because of their leaving the duty of govern-

ment to their ministers.

Roller, an African and Asiatic bird of the Cornciade family. It gets its name from its habit of turning over in the air like the tumbler pigeon. It sometimes

occurs in Britain

Roman Catholic Church is the Christian Church Roman Catholic Church is the Christian Church whose head is the Pope of Rome. Its Creed comprises twelve articles, the seven sacraments of Baptism, Confirmation, Eucharist, Penance, Extreme Unction, Orders, and Matrimony: the doctrines unclude those of Original Sin and Justification, sanctioned by the Council of Trent; the Mass, as a propitatory sacrifice; Purgatory: Papal Supremacy, etc. It was the established Church of England until the Reformation, after which many disabilities were imposed upon Roman Catholics, and continued was more of less severe form until the nussing of the were imposed upon Roman Latiolics, and continued in a more or less severe form until the passing of the Emancipation Act of 1820. There are three Roman Catholic Archibishops in England (Westmuster, Birmingham and Liverpool), two in Scotland (St. Andrews and Edinburgh, and Glasgow), and four in Ireland (Armagh, Dublin, Cashel and Tuam). There are over 260,000,000 Roman Catholics throughout the world, of which about five and a-half millions. are in the United Kingdom, over three and s-quarter millions being in Ireland.

Romanesque Architecture includes the round-arched and vaulted orders, which were prominent from the 5th to the 12th century, and retains some characteristics of the Classical style, modified on Mediaval lines. The Byzantine and Lombard Mediæval lines. The Byzantine and orders come within the term Romanesque,

orders come winn the term Romansque.

Roman Roads were made for the most part by crimmals, and were of great strength and durability. Four such roads were made in England during the Roman occupation, fragments of which still remain. These were Waiting Street, stretching from Kent to Cardigan; the Icknield Way, from St. David's to Tynemouth; Fosse, from Cornwall to Lincoln; and Ermin Street, from St. David's to Southampton.

Ermin Street, from St. David's to Southampton.

Roman Walls for defence against invasion were
built by Agricola, Hadrian, and Septimus Severus
on the northern borders of England as a pratection
against the Picts and Scots. The first wall was begin
by Agricola in A.D. 79, and extended a distance of 80
miles from the Tyne to the Solway Firth; the second
was built from the Firth of Forth to the Firth of
Clyde, 36 miles. Agricola's wall was extended by
Hadrian in 121, and by Septimus Severus in 208, and
ran from Bowness, near Carlisle, 6b Wallsend-onTyne. Many parts of these walls still remain.

Rondo, the nature of a short musical composition with

Rondo, the name of a short musical composition with one prominent theme recurring throughout.

Rontgen of Wurtzburg, while experimenting with a Crookes vacuum tube, when the fact was accidentally revealed that a photographic plate, contained in a dark box and exposed to its rays, reflected metal a dark box and exposed to us rays, reacted meta-objects, the lox itself seeming transparent. Further experiments developed the idea, and now by the aid of Röntgen Rays photographs can be obtained of objects enclosed in solid bodies, enabling bullets and any solid bodies of nietal, as well as bones, etc., in the body to be perfectly located and investigated. The discovery has proved of great advantage in surgical operations, and from experiments that are constantly in progress it is bossible that the rays

surgical operations, and from experiments that are constantly in progress it is possible that the rays may prove of great utility in the case of various skin and other dasq-ses.

Roodebok, a reddish-brown member of the deer family, with large ears and pomted horns, abounding in the forests of Southern Africa.

Rook, a very common bird of the crow family abounding in all parts of Britain. The birds nest in colonies, and live chiefly on birds and insects. The plumage is black with blue and purple tinges.

Rosqual, a marine mammal of the whale order, specimens of which have been met with of from 70 to roo feet long. They yield but a small quantity of himber, and therefore are not much hunted. Several species are found in the North Sca.

Rosanziline, a well known emiline dye commonly known as magenta. (See Aniline).

Rosanzy isee Readel).

Rosanze a green micaceous mineral first discovered by Professor Roscoe, and containing some 30 per cent. of vanadium pentoxide.

Rose Estelle, so-called because it feeds, wherever possible, on the juice of the rose. It is of a green colour on the back, red underneath, and is not more than one inch in length.

Roses retain their pre-eminence among flowers year Roses retain their pro-eminence unong nowers year after year, and the attar of roses is the most famous and most costly of all perfumes. The finest rosegarding in the world are those of the province of Kezanilk, in Eastern Roumelia, where the plantations, which lie along the sweet Valley of Maritza, extend for the wards of an inless. Here nearly 6,000 lb. of the

which lie along the sweet Valley of Maritza, extend for ubwards of ao miles. Here nearly 6,000 lb, of the attar is produced every year, to make which several thousand tons of picked juctuls are used, for it takes about 200 lb, of rose leaves to make a single ounce of the attar. The price of the Turkish attar, which is produced by distillation, is from £15 to £20 per lb.; but that which comes from the South of France, where only a small quantity is produced, is even more expensive, owing to its particularly fine quality. The price of this is as much as £45 to £50 per lb.

Boses, Wars of the, between the rival houses of York and Lancaster, for the possession of the English crown, began in the regul of Henry VI. and terminated with the death of Kichard III. on Boworth Field. The emblem or badge of the Lancastrians was the red rose, and of the Yorkits the white rose. It is said that 100,000 of the gentry and common people, 200 nobles, and 12 Princes of the Bloed were killed during the 30 years of this fierce contest. All rivalry between the Roses ended by the marriage of Henry VII., the Lancastrian, with the Princes Elizabeth, daughter of Edward IV., the Yorkist.

Rosetta Etome, a stone discovered in 1790 by the Frenchat Rosetta in Egypt, and afterwards deposited in the British Museum It is a piece of black basalt about 3 feet long, and contains heroglyphic inscriptions, which were successfully deciphered, and found to contain a decree of Ptolemy Epuphanes, of about 195 B.C

about 195 B.C

Rose wood, the name given to the timber of various South American trees of the Leguminasa order. Its ground colour is dark brawn with red streakings, forming a variety of attractive designs.

forming a variety of attractive designs.

Roalcryadans were a sect of philosophers founded
by a German monk manned Rosencreuz in the rath
century. A good deal of mystery, however, surrounds the history of this secret society, the members
of which were credited with the possession of the
secrets of alchemy.

secrets of attention.

Rota Club was a political association formed during
the Commonwealth, whose object was to secure the
election of the chief officers of the State by ballot,
and to have annual changes of Members of Parliament.

and to have annual changes of Meinters of Pariament by rotation. Hence the name of the Club. They did not accomplish much, however.

Rotahe, a small set-bird of the Auk family, mostly inhabiting the Arctic Regions. Its back and wings are black and the under parts white. Fauilliarly known as the "Little Auk."

Rotlfara, the order of animals known as "whoelenimalcules," mid-procopic mize, but possessing

highly organised structures.

oction Row, a corruption of route de roi (king's drive), the fashionable riding and driving resort in Hyde Park.

Rottenatione, a siliceous limestone inade porous by the action of water. In a pulve, ised form it is used for polishing soft metols.

Bounds, a Russian silver coin of the nominal value of

about g. English.

Rouge, a substance obtained by heating copperas to
the point of decomposition. This form of rouge is
utilised both for polishing purposes and as a pigment.

Another kind of rouge used as an artificial colouring matter is obtained from the dried flowers of Car-thamus finctorius, and is mixed with French chalk

thamusrinctorius; and is maked what a return finely powdered.

Rouge at Noir, a well-known gambling card game played on a table divided into two sections and marked with two black and two red lozenges. Any number of players can take part, and the money is staked on the red or black spaces. The cards are chealt out, first to Noir, until the pips aggregate more than 30; then in like manner to the Rouge, and the

packet coming nearest to 31 wins the stakes.

Boulette, a gambling game played on a table carrying a revolving disc divided into 39 compartments, coloured red and black respectively. The players stake their money on any compartment, colour, or combination of numbers they please. The disc is whirled round and a ball is set rolling in the opposite direction, dropping finally into one of the compart-

ments, thus deciding the winning number or colours.

Round, a musical conjub-tition in several parts, taken
up by each participator at a different point from
the other, and effecting a harmonious combination
throughout. A Catch is similar in form, but usually

allied to humorous words.

Roundheads, the name given to the Parliamentary party during the Civil War. It was originally a term of derision applied by the Royalists. Round Towers are conical erections of considerable

height, dating, probably, from some period 1-tween the 6th and 12th centuries. These buildings are numerous in Ireland, and three remain in Scotland. It is supposed they were built for ecclesiastical pur-

ris supposed they were used to direct evidence of this existing.

Rove Beetles, beetles with long narrow bodies, and a habt of suddenly curving up their tals when surprised. They are a numerous genus, and much in evidence on warm summer ovenings. They not

surprised. They are a numerous genus, and much in evidence on warm summer evenings. They not only fly, but are capable of running at a great speed. Royal Reademy was founded in London, in 1768, under the patronage of George III., with Sir Joshua Reynolds, who was knighted for the occasion, as first president. The early exhibitions of the Academy were held first in Pall Mall, and later in Somerset House, where the exhibitions continued to be held until 1828, when, the National Gallery being built, the Academy moved its quarters to that building. In 1869, the present Royal Academy, a Burlington House, was opened. The Academy numbers 40 R.A.'s and about 30 A.R.A.'s. The presidents have been: Sir Joshua Reynolds (1768), Benjamin West (1760), Sir Thomas L. twenne (1820), Sir Martin A. Shee (1820), Sir Charles Fastlake (1820), Sir Francis Grant (1860), Lord Leighton (1878), Sir J. E. Millaus (1820), and Sir E. J. Poynter (1836). Royal Academy of Music, founded in 1823, has enjoyed a Royal charter since 1830, and an annual Government grant of 5500 since 1868. Every form of music is taught there, and the chief modera languages. It has valuable scholarships, and has produced many entinent musicians.

Royal Agricultural Society was founded in 1838 and incorporated in 1840. It holds an annual show, at which valuable praces are offered for the best stock and the most important inventions in agricultural implements. These shows were held at

best stock and the most important inventions in agricultural implements. These shows were held at agricultural implements. These shows were held at different places each year from 1832 until a few years ago, when London was fixed upon as what was hoped would be a permanent show place, and a large tract of ground was secured at Park Royal for that purpose. The shows held at the latter place, however, falled to attract the public, and a reversion was made to the old system in 1906.

Royal Gollege of Hussic, at Kensington Gore, was incorporated in 1883, and receives pupils of both sexes. It has 57 Open Free Scholarships and 12 Close Free Scholarships.

Royal Humane Society. (See Humane Boolety, Royal.)

Royal Institution was established in 1799, and was incorporated by Royal charter in 1800 for "the diffusion of knowledge" and the facilitating of inventions and scientific discoveries. It was in the

building of the Institution that Faraday conducted his experiments. Since 1833 it has supported two professors, one of chemistry and one of physiology. Royal Society was founded in 1660 and received a Royal charter in 1662, Sir Robert Moray being the first president. Two years later the society began to publish its Philosophical Transactions. It was to the Royal Society that Newton first read his Principla, which was ordered to be printed. The to the Royal Society that Newton first read his Principsa, which was ordered to be printed. The meetings of the society have been held in rooms in Burlingtom House since 18gy. There is a Parlia-mentary grant of £4,000 a year to the society for scientific purposes. Among the presidents have been Sir Christopher Wren, Pepys, Sir Isaac Newton, Sir Ioseph Banks, Sir Hunphly Davy, Professor Huxley, Lord Rayleigh, and Sir Archibald iselkie. Rubber, produced from the julce of certain tree's and shrubs of tropical countries, is in such extensive demand now for tyres and other purposes that rubber plantations have been established in almost every part of the world where nubber can be grown. The best

plantations have been established in almost every part of the world where nulber can be grown. The best kinds come from the Amazon valley. In 1910a great rubber "boom" was experienced, hundreds of new companies being floated, while the price of rubber was more than doubled. There is an annual consumption of some 125,000 tons of rubber at the present time (1914). An artificial rubber, "synthetic rubber"

as introduced in 1912.

Rubicon, a small over falling into the Adriatic, and forming one of the Italian houndaries, the crossing of which anciently involved decisive action and constituted a declaration of war. Thus the phrase "crossing the Rubleon" came into general use, denoting an act from which there is no withdrawal.

denoting an act from which there is no withdrawal.

Rubidium, a scarce clement first discovered in
certain mineral waters in Bavaria in 1867 by Bunsen,
It is always associated with lithium, and frequently
with potassium and sodium.

Rubrios are the special instructions in regard to the
ceremonies of the Church, appearing in the Prayer
Book, and easily denoted by being printed in red.

Ruby is a deep red kind of Corundum, and a variety
of sapphire; one of the most valued of precious
stones, the best examples being worth more than
diamonds of the same size and quality. Burna
yields some of the finest, and rubies of inferior colour
are found in Siam. Cevlon. South A frica, and Brazi. are found in Siam, Ceylon, South Africa, and Brazil.
Rudd, a fresh-water fish of wide distribution, plentiful

tagata, a treas water is no who distribution, plentinal in the rivers of Britain, and found in most other parts of Europe, also in Asia Minor. It is of a reddish-gold colour, with a greenish-blue beard. It averages from r to 2 lb. in weight.

Rudeshelmer, a noted brand of wine made from grapes grown in the districts of Rudesheimer on the right bank of the Rhine.

right bank of the Rnme.

Ruff, a bird of the sandpiper family, which was at one time very common in the Fen districts. The males are peculiar in having a well-developed ruff of feathers round the neck.

Ruffe, a small fresh-water fish common in most parts

Ruffa, a small fresh-water fish common in most parts of Central Europe, and similar in appearance to the ordinary perch. It is found in British rivers.

Rufflas, the name given to a pleated strip of fine linen worn by men in the breast of the shrt, and fashionable down to the early part of the 19th century.

"Rule, Britannia!" the national sea-song of England, was written by James Thomson, the author of the "Seasons," and set to music by Dr. Arne about rue. about 1740.

Rum, an ardent spirit distilled from molasses, and containing from 40 to 50 per cent. of alcohol. It is chiefly manufactured in the West Indies, and Berives

its special flavour from a volatile oil.

Ruminantia, a class of ruminants that chew the cud, being provided with a compartmented stomach, enabling them to swallow food, and afterwards bring it back to the mouth for mastication.

it back to the mouth for mastication.

Rummage Sale, the name given to a clearing-out
sale of articles, at docks or other public places,
which have not been claimed by their waners within
a prescribed period.

Runes or Runio Inscriptions, the description
applied to certain alphabetic characters discovered
cut upon stone monuments and implements found in

many parts of Europe, including Engiand. In only a very few instances has it been possible to put any distinct and conclusive interpretation upon them.

Rupea, an East Indian coin forming the standard unit of value in India. It is of the nominal value of ss., but, owing to the fluctuating price of silver, its value has much deteriorated in recent years, its actual value being rated by an Act of Parliament in 1808 at 1s. 4d. 1808 at 1s. 4d.

regg at rs. 4d.

Rusa, a genus of deer inhabiting India, Ceylon, the
Philippines, and the Malay Archipelago. It stands
about 5 feet high, is of a dark brown hue, and of a
somewhat sturdy build. Its antiers are long and
powerful. The Sambur is the most familiar species.

Rusiochine, a red substance resulting from evaporating the green solution formed when chlorine, water
and ammonia are added to quinine already in solution.

and ammonia are added to quinine already in solution.

Russian Grand Dukes.—The surviving male relatives of the Cara Nicolas II. extend to cousins of third degree and are all grand dukes. These thirty male members of the imperial house are a serious burden on poverty-stricken Russia, for each one of them receives as his birthright an income of £100,000, approximately, a year from the moment he sees the light of the world till the hour of his death. sees the light of the world till the hour of his death. The present sum paid to the grand dukes and princes of the Russian imperial house thus amounts to a total of about three millions sterling per annum. Between them these grand-dukes and princes own 5,000 square miles of land, or about one-fortleth part of the entire terratory of European Russia. Besides these vast estates, they possess no less than 325 palaces and castles, and employ some 20,000 domestic servants. servants.

servants.

Ruthwen Raid was the conspiracy of which Ruthwen Raid was the leader in 1982, directed against James VI. of Scotland, which was unsuccessful, and in consequence of which Gowrie lost his life two years later.

Rye House Plot, formed in 1683 with the object of assassinating Charles II. and the Duke of York (afterward James III., in order to secure the succession of the Duke of Monmouth. The plot was frustrated, and among those who suffered death for supposed participation in it were Lord William Russell and Algermon Sidney. The meeting place of the conspirators was Broxbourne, Hertfordshire.

Sabal, the typical genus of the Sabalida family of fan-shaped leaved palms. Sabal palmetto is the Palmetto Palm.

Sabaoth, a Hebrew word, meaning an army or host, and applied sometimes to the Supreme Being, e.g. "the Lord of Hosts," (Rom. ix. 29).

e.g. "the Lord of Hosts," (Rom. ix. 29).

Sabbatarians, a term generally employed to designate such as rigidly observe the Sabbath, but in the 17th century applied to a sect which was in favour of Saturday (Seventh Day) being honoured as the Christian Sabbath. In America at the present time there are still several sects of Sabbatarians, or Seventh Day Baptists.

Sabbath, the Day of Rest as ordained by God. Christians make it the first day of the week, and the

Christians make it the first day of the week, and the Jews the seventi.

Sabbath Breaking.—In England penalties for the disregard of the Sabbath have been imposed from time to time by the Legislature. By the Statute as, Charles II., c. 7, still in force. "No person is allowed to work on the Lord's day, or use any boat or barge, or expose any goods for sale, except meat in bublic houses, initia at certain hours, and works of necessity or charity, on foreiture of s." Prosecutions under this Act are regularly carried out in several places, and the penalty imposed is duly paid by trademen who break the law.

Sabbatical Year was instituted by the Jews in ancient times for the purpose of giving the soil a rest from cultivation. This was every seventh year.

Sabbilianism designates a religion founded by Sabellius in Egypt in the 3rd century, and did not accept the Trinity. A Council of the Roman Church condemned it in A.D. 260.

Sabines were a brave race inhabiting a territory near Rome in early times. Romulus, it is said, lured the Sabine men to the Roman sports, and in their absence carried off their daughters by force. Ultimately the Sabines were absorbed in the Roman people about 266 B.C.
Sable, a beautifully furred mammal of the weasel family, inhabiting Siberia and other parts of Northern Asia. It is bright brown in colour, and has a long, bushy tail. There is also an American variety. Wherever it exists it is hunted for its valuable fur.

Saccharfin is an ionide of orthosulphobenzoic acid, a

Baccharin is an ionide of orthosulphobenzoic acid, a

coal-tar product, and is 300 times as sweet as cane sugar. It is not used as a substitute for sugar, but simply as a sweetening agent when sugar is forbidden, as in certain diseases. It has no value as a food.

Saccharold, a name given by Kane to a sweetish substance, similar to orcin, produced by the decomposition of Heeren's pseudo-crythrin.

Saccharometer, an instrument for determining the amount of sugar in solution by means of polarised light. Used in broweries and distillenes for esti-

mating the specific gravity of worts, &c.

Back was the name given in olden times to the white
dry wines of Spain and Madeira, canary being the

most popular.

Sacrament, according to the Protestant Church, includes Baptism and the Lord's Supper. In the Roman Catholic Church there are seven Sacraments. (See Roman Catholic Church.)

Sacred Books of the East is the term applied to

the Books in which the faiths of Brahmans, Buddhists and Mahonimedains are set down; and are claimed by believers to be works of Divine inspiration.

Sacred Wars of the ancients were three in number.

those of the Aplictyons against Cirrlia, 505 B.C.; that between the Phocians and the Delphians, 448 B.C.; and that of the Phocians and the Mace-

donians, 346 B.C.

Sacrifice, the offering up to a deity of some object as an expression of thank giving or pentience. The first sacrifice we read of in the Bible was that offered to God by Abel. The ancient Greeks and the Romans practised sacrifice largely, and the history of Paganism is full of stories of human sacrifices. Some savage races include in these inhuman cruelties

some savage races induge in these liminian cruents.

Sacrilega is the breaking into a place of worship and stealing articles therefrom. In olden times these offences were punishable with death, but by Act passed in the last century the punishment was generally treated as an ordinary burglarous offences.

Saddles were introduced by the ancient Greeks or

Romans, and were not known in England probably before the 6th century.

Sadducees, a Jewish sect of unbelievers, who held

"" has mortal, and that there was no here-

after. Alluded to in the New Testament.

Safety Lamp, as used m coal mines, was invented by Sir Humphry Davy in 1815, and illustrates the principle that flame surrounded by fine wire-gauze is ineffective to former information. ineffective to ignite inflammable gases. George Stephenson invented a safety lamp about the same

Stephenson invented a safety lamp about the same time and much on the same principle, but the completely effective safety lamp has yet to be invented. Safitia, or "the Arrow," one of the celestial constellations situated between Cygnus and Aquila. Sagittarius is another of the zodiacal constellations, consisting of 69 stars, which ancient astronomers worked into the representation of an archer. It is situated between Scorpio and Capricornus.

Saffa, an antelope of Tartary, Western Asia, and Eastern Europe, tawny yellow, and about the size of the fallow deer.

the fallow deer.

Sainfoin, a widely cultivated forage plant, especially adapted for sheep. It is of strong, leafy growth and bears bright red flowers.

Salamander, a species of amplebian lizard, of which there are several varieties: the spotted salamander is black spotted with gold, and is popularly credited with being incombustible in fire, which is of course, a fallacy. Neither is it venomous, as has

been supposed.

Salicin, a white crystalline substance, much used as

a medicament, and obtained from the bark of willow-

a medicament, and obtained from the bark of willow-poplar, and other allied trees. It is a compound of carbon-hydrogen and oxygen.

Salic Law was instituted in France in the 6th century for the purpose of excluding females from inheriting the Crown. The Bourbons introduced the same law into Spain, but this was abolished by decree in 1830 to enable Isabella II. to succeed.

Salioylio Acid can be obtained from the flowers of the useadow-sweet and from 6il of whiterpreen, but

the meadow-sweet, and from oil of wintergreen, but

the meadow-sweet, and from oil of wintergreen, but is now usually prepared by the action of carbon dioxide on sodium phenate under pressure. The acid is then prepared from the sodium salicylate. It is used both as an antiseptic and as a food preservative.

Salmon, a familiar fish notable for its habit of ascending rivers from the sea, in the autumn and there depositing its spawn, not returning to the sea until the early spring. It is unlawful to catch salmon between September 14th and February 1st.

Salt, me of the uddest of condinents exists in many

substances, and is chloride of sodium, compounded of the non-metal chlorine and the metal sodium. It of the non-metal chloring and the metal sodium. It is obtained from deposits in the earth, from salt-springs, and from sea-water. There are salt mines in Galicia which have been worked for hundreds of years. The chief Fighsh salt-mines are in Cheshire. Saltpetre. (See Nitre.)

Salvage, compensation given in respect of property saved from the perils of the sea, when the ship con-taining it has had to be abandoned, or it has been lost. Salvage compensation varies from one-tenth to

one-half the value of the rescued property

Salvation Army originated in East London in 1865, under the name of the Christian Mission, by William Booth, a former Methodist minister. The body in 1878 took the title of the Salvation Army, and for working purposes adopted a quasi-military organisation, with its General (Mr. Booth) as its commander-in-chief. The movement had for its object the promotion of religion among the masses, object the promotion of religion among the masses, and has been carried on with great energy and success. It publishes 69 periodicals in 24 languages, with a total weekly issue of over 14 millions. It operations extend to 52 countries and colonies. It has over 7,500 corps, circles, and societies, upwards of 20,000 officers and cadets, and 55,320 voluntary local officers. It has 644 shelters and homes. In this branch of its work it supplies annually over five million beds and more than eight million meals. An million beds and more than eight million neals. An International Congress of Salvationists was held in London in 1924, and again in 1924, and King Edward received. "General "Booth in private audience at Buckingham Palace. Later the venerable head of the organisation made extensive motor-car nead of the organisation made extensive inotor-car tours and trips abroad in furtherance of his work. His health failed, however, early in 1912, and after an operation on his eyes, and the almost total loss of his sight he broke down and died in August and was given a great funeral after a lying-in state. Bramwell Booth, his son, succeeded him

Sanatorium, an institution for the reception of people out of health, and requiring nursing and medical attendance.

Sanctuaries were places where offenders against the law were free from arrest, and the law were free from arrest, and when all such asylums were suppressed in this country, several parts of London were treated as sanctuaries. The chief of these refuge localities was in Whitefriars. There were others in the Minories, Mitro Court, the Savoy, Westiamster and the Mint. There were also sanctuaries at Beverley and at St. Burian's in Cornwall.

Sand Blast, an American invention introduced in 1871, is a method of cutting or decorating glass and other hard substances by means of sand driven by a ner hard substances by means of sand driven by a

blast of air or steam.

Sandarling, a bird of the sandpiper family, occurring on the British coast mostly as a bird of

passage, and making its home in Arctic regions.

Sand Grodies, a common bird of the grouse family, inhabiting Southern Europe and Northern Africa.

Sandpiper, a bird comprising several varietics, some of which inhabit Britain along the Northern coasts.

Eanhedrim, the ancient Jewish Ecclesiastical Council of 70 members, said to have been griginated by Moses when he called together 70 elders to ussist him as judges. In modern times the Sanhedrim has

only ben summoned on very rare occasions, such as that convoked by Napoleon I. in 1806.

Sanitation, the science of health in its application Sanitation, the selence of health in its application to disease prevention generally, embracing the investigation of drainage, air supply, isolation in infectious disease, and hygienic measures of all kinds. The Sanitary Institute of Great Britain, founded in 1876, has accomplished much valuable work in the interests of public health and convenience.

Sankhya, one of the leading systems of the Hindoo faith, and supposed to be the philosophy from which Buddhism originated. It recognises no derty, but assumes the existence of primordial matter and of spiritual individuality.

Sans-Culettens a term originally applied by the French aristocrafts to the revolutionary leaders in

French aristociats to the revolutionary leaders in 1790, and afterwards adopted by the latter as a title of honour.

on nonur.

Sansignt is the language of ancient East India, spoken by the Brahmins, and existing in early Oriental literature. As written in India at the present day the Sanskrit alphabet comprises 47 letters—14 yowels and 32 consonants. The language is still spoken in certain parts of southern India.

spoken in certain parts of southern india.

Baponin, a compound obtained from the soapwort root, and from certain barks, seeds, and plants. It is utilised to some extent as a bronchial reinedy, and in its pulverised form induces excessive sneezing.

Sappan-Wood, the timber of a tree attaining a height of from 30 feet to 40 feet, abundant in Ceylon and the East Indies. It is chiefly of value as wielding a red dive.

and the East Indies. It is through the vision originally to members of the regiment of Royal Engineers.

to members or the regiment of Royal Engineers.

apphild Wersa, a nettre form of verte said to have
been invented by Sappho, the lyric poetess of
Mitylene, who flourished about 600 B.C. This verse
consists of five trochees, the second of which is a
spondee, and the third a factyl.

spondee, and the third a dactyl.

Sapphire, a valuable deep blue stone, next in hardness to the diamond, found mostly in India, Ceylon, and Northern Italy.

Saracana, a band of Bedouin Arabs, who in the Middle Ages were employed with considerable success by the Emperor Valons against the Goths. In the 6th century they became Mahommedans, and in the 8th conquered Spain. Later, the term Saracen was used to indicate the non-Christian races generally against whom the Crusades were directed.

Sarpine. a white crystalline solid found in animal

Sarcine, a white crystalline solid found in animal tissues and juices.

Saroophagus, the name given to a stone coffin, such as was used by the ancient Egyptians, Greeks

such as was used by the ancient Egyptians, creeks and Romains, for receiving the remains of their famous dead. These sacophagi were often decorated with rich carvings and sculptures.

Bardine, formerly supposed to be a distinct species of fish, but now conclusively proved to be the young of the pitchard. They abound in the Mediterranean and on the Norwegian coasts, and form a valuable table commodity, being largely preserved in oil and other substances for Continental and American consumption.

Bardonyx, a species of agare comprising layers of alternating brown, rod, white and other colours. It is much esteemed as a gem.

Barancollin, a valuable ornsmental marble occurring near Sarrancolm in the Aure Verley, France. It is vari-coloured, with yellow predominating.

dominating.

Sassanides were a dynasty of Persian rulers descended from Artaxerxes. They reigned from 226 to 652,

and to 652.

Basseline is native boric acid of a yellow white colour, occurring as a deposit in the water from the hot springs of Tuscany,

Batallites are small planets revolving round the larger ones. The moon is the earth's only attellite. Saturn has eight.

Satin, a slik fabric of glossy surface of a velvety texture, once very fashionable for dresses, but now

little used except for trimming purposes.

Batin-Bird, the famous "bower bird" of Australia
so named from its habit of constructing a bowerlike nest; has a glossy black plumage, with the

nke nest; has a glossy black plumage, with the under parts yellow.

Batin wood, the timber of a tree plentiful is is and Ceylon, and valued for cabinet work. It is of fine grain and very hard. Varieties also exist in the West Indies, Florida and Tasmania.

Batrap, the name given in ancient times to a Persian Governor of a Province.

Persian Governor of a Province.

Saturday, the seventh day of the week (the Jewish Sabbath), derived its name from Saturn, or, as some hold, is called after the Saxon idol, Saterne, which was worshipped on this day.

Saturn, a planet, the sixth from the Sun, from which it is distant about 872 millions of miles, and

around which it makes a revolution in 10,759 days.

It is about 77,230 miles in mean diameter, or ten times as large as the earth, and rotates on its axis in ten and a quarter hours. It is surrounded

axis in ten and a quarter nours. It is surrounced by a series of rings apart from, but revolving round, the planet. It has eight satellites.

Saturnallia, festivals held in ancient Rome in honour of the god Saturn. They were made the scene of the most houstenous festivities, and were continued for several days about the nilddle of Presenter.

December

Baurocetes, the name given to a genus of fossil cetaceans discovered in the Tertiary formation of South America.

South America.

Savings' Bank. (See Banking in "Business' Savoy Palace, in London, between the Strand and the Thames, was originally built in the right century by Peter of Savoy. It was burnt in the Wat Tyler Rebellion in 1981, and afterwards restored and converted into a hospital in the reign of Henry VII. It was here that the famous but fruitless Savoy Conference was held between the Church and the Presbyterian Party in 1651. The ackent chapel of the Savoy was burnt down in 1864, but rebuilt the following wear.

chapel of the Savoy was burnt down in x864, but rebuilt the following year.

Sa.W., a tool said, by Pliny, to have been invented by Dradalus, and fashioned in imitation of the jaw-bone of a snake. Saw-mults date from the 15th century, in Madeira and Breslau, but they were not introduced into England before the 15th century, and even then met with great opposition. The circular saw was invented in the 15th century.

Saw Mish, a sub-tropical fish whose snoot often attains the length of several feet, and is provided with saw-like projections which render it dangerous even to the whale list.

to the whale itself.

Sakons, a Teutonic race originally inhabiting what
is now Holstein. It was from this people that the
conquerors of England sprang in the 5th century.

Scald, the name of the Norse poets, who were somewhat analogous to the bards of Wales. Their office
way to celebrate the achievements of their warriors and leaders.

Boandalum Magnatum, a law passed in 1378, prescribing certain punishments to such as circulated scandalous statements concerning peers, Ministers, and other public functionaries.

and other public functionaries.

Scapular, a vestment hanging from the shoulder to the knees, worn by members of certain Roman Catholic orders. The name is also given to two small pieces of cloth worn over the shoulders by lay members of the church in honour of the Virgin.

Scarabballs, a genus of beetles widely distributed through Africa and Asia and the inner parts of Europe. It is to this genus that the "Sacred Beetle" of the Egyptians belongs, and numerous representations of it are found on ancient monuments. Scoate a small April-Savon celo elements of its head of the second of t

representations of it are found on ancient monuments.

Boeat, a small Anglo-Saxon coin, circulated in the
7th and 8th centuries, and worth nominally a penny;
struck sometimes in silver.

Roaption, a sect of philosophers founded by Pyrrho

pospector, a sect of princepopers founded by Fyrmo in ancient Greece 348 E.C. Their philosophy consisted in general doubt concerning everything. Scoppre, the staff or rod constituting the symbol of supreme authority. Tarquin, the clair, was the first

Roman to assume the sceptre in 468 B.C. The French kings of the 4th century made a golden rod their sceptre.

Schledam, a kind of gin, commonly called Hollands, manufactured at Schledam, from the juice of the juniper berry and mait barley.

Boilines was constituted a pulsaw "to prevent the growth of schism and for the further security of the Churches of England and Table 1989. growth of schism and for the further security of the Churches of England and Ireland as by law established." Teachers were required to conform to the Church. The Act was repealed in 1719.

Schiss, the geological name of certain rocks in closely parallel layers, the mica schust being the most important. Quartz is a main constituent.

Schoolmen, or Schoolastie Philosophers, were a body who, in the Middle Ages, deveted themselves to the study and exposition of difficult suestions of religious inquiry, and attempted to

guessions or religious inquiry, and attempted to guessions of religious inquiry, and attempted to reconcile the teaching of the Church to the dictates of human reason. Amongst the chief Schoolisch were Archbishop Anselm, Albertus Magnus, Thomas Aquinas, Peter Lombard, and Duns Scotus.

Aquinas, Peter Lombard, and Duns Scotus.

Schooner, a small two-masted vessel with fore and
aft sails. Some also carry top-sails. The schooner
is a favourite sailing vessel on account of its speed.

Scorpion, a large form of spider, in structure not
unlike a lobster. It is only found in hot clumates,
and often attains a length of 6 or 7 inches. The tail is provided with a venomous sting, which, though

tail is provided with a venomous sting, which, though seldom fatal, causes extreme pain.

Soctists were followers of the Schoolman, John Duns Scotus, who propounded certain moral laws and doctrines which were somewhat at variance with the teachings of the main body of Schoolmen.

Scotus, Bay. This movement, founded by Lieut.
Gen. Sir R. Baden-Powell "to help the boys of whatever class to become all-round men," has been developed with great spirit and success. There is a membership of over roo,oon in the United Kingdom, and of 150,000 in other parts of the Empire. The movement has been extended to girls.

Boruple, in English apothecaries' weight, comprises so grains, or the third of a drachin. In ancient Rome a scruple was the 24th part of an ounce, and also indicated a surface and a time measure.

Sculpture is believed to have originated in Egypt, sulpsure is believed to have originated in Egypt, and Pliny refers to a school of statuary at Sicyon about 558 B.C. Lysippus was appointed sculptor to Alexander the Great 356 B.C. The greatest of the Grecian sculptors were Phidias (28 B.C.), Myron (480 B.C.) and Pranteles (353 B.C.). The Romans did not cultivate sculpture with any special success, and it was not until the Art revival of the Middle Arge that it was entractivation to seem 1. and it was not until the Art revival of the Middle Ages that it was earnestly taken up again. It was Michael Angelo who carried Italian sculpture to ithighest point in the roth century. Not until the right century did England produce any particularly striking sculpture, and even then the art was mainly represented by foreigners. The chief English sculptors since then have been Flaxman, Chantrey, Westmacott, Gibson, Foley, Woolner and Thorwylcoroft. Canova, in Italy, and Thorwaldsen, in Denmark, were among the greatest sculptors of the right century, and at the present day Kodin holds the highest rank among French sculptors.

Soutage, or escuage, was a feudal tax levied on lands subject to knight service, the service being

iands subject to knight service, the service being exercised in lieu of paying the tax.

Soythlana, a nomadic people of ancient times, originally inhabiting the Steppes of Russia, but subsequently occupied a part of India.

Baa Baagle, a large genus of Eagles, consisting of seven species, two of which occur in Kurope. They live on fish and carrion and sometimes seek their prey among living animals.

Bea Blephanat, a curious species of seal, the males of which possess a proboscis a ghot or more in length. They are found on the coast of California, and in certain parts of the Southern Ocean, and have a commercial value for their blubber.

Bea Hagrea, a rather common seafish very numerous

ea Horse, a rather common sea-fish, very numerous in the tropics and comprising some 20 species. Their bodies are ringed and they have prehensile

tails. Their heads are horse-shaped, and they swim

in a vertical position.

aals, or Bignets, have been in use from the remotest times. Some impressions of seals of Saxon kings are in the British Museum. The Great Seal of England was first used by Edward the Confessor, and it is the Great Seal that is used on the writs summoning Parliament, and for sealing all State documents of importance. The Lord Chancellor is the official custodian of the Seal.

the omciai custodian of the Seal.

Sea Mesuse, a genus of Annelids of the Aphrodite family, of oval shape and some 8 or 9 inches long, and iridescent. They are covered with fine hairs, and in some species are barbed and bristled.

Seasons comprise the four natural divisions of the year, and are due to the inclinations of the earth's seasons the plant of the ellimit. (See Mesuser)

year, and are due to the inclinations of the earth's affs to the plane of the elliptic. (See Equinox.)
The spring season is entered about the 21st March, autumn September 22. The summer and winter seasons are governed by the solstices (which see), and begin re-pactively atout June 21 and December 22.
See Urchin, a curious kind of eclinion encased in a calcareous globular shell, covered with spines which are used both for defence and locomotion.

Re-Bantista were a sect of the 12th Century.

Se-Baptists" were a sect of the 17th century, who held that baptism was sufficiently fulfilled by a

who that the baptain was sanctomy tomact by man baptaing himself.

Secretary Bird, so called because of the quill-like plumes about its ears, is a bird of prey common in Africa, and of considerable service as an externumator of snakes. It is a large bird about 4 feet in height.

or shares. It's a large bird about a feet in neight.

Secularism describes the principles first advocated
by Bradlaugh, Holyoake and others, not in opposition to Christianity, but apart from it, and deals with matters of human welfare and utility, ignoring

altogether theological questions.

Sedan Chairs were first made at Sedan in France Sadan Chairs were first made at Sedan in France in the x6th century, and introduced into England in the reign of James I. They were in general use in the 18th century, when they were the usual means of carriage for ladies and gentlemen. They were borne on two side poles by a couple of bearers, and only accommodated one person.
Sadgmoor, Battle of, was the deciding battle of the Monnouth Relegilion, and was fought on July 6th, 1685, at Sedgmoor in Somersetshire. The Duke of Monnouth was made envirse and afterwork tried.

of Monmouth was made captive, and afterwards tried

and beheaded.

Sedition, the incitement to opposition to the governing powers, was formerly severely dealt with, Roverining powers, was formerly severely used whith A Sedition bild was passed in 1995, and for the next quarter of a century this statute was much in evidence to put down seditious writings, meetings, and assemblies. In later times numerous prosecutions for sedition have taken place in Ireland.

Salamometar, an instrument for measuring the force of earthquake shocks, is nits present improved form the invention of Mesers. Ewing and Grey. It is a clockwork apparatus, with a duplex pendulum, and records the direction and velocity of seismic

Saldan Society, for the study of English legal history, was founded in 1827. Selenium, a non-nutealine element of a dark red colour, and solid, found associated with sulphur,

colour, and solid, found associated with suiphur, iron, pyrites, etc., though only m small quantities. It possesses strong electric resistance, and is valuable in the construction of electrical instruments.

Self-Denying Ordinance was a measure passed in 1645, providing that no member of Parlament should hold military or civil office, and was forced through the House of Commons by Cromwell, in order to deprive the Earl of Essex and other Presbyterians of newer.

order to deprive the Earl of Essex and other Presbyterians of power.

Sentineles, a tribe of North American Isdians
originally located in Florida, but now for the most
part living on reservations in the Indian Terrisory.
Up to 1840 they gave the United States Government
much trouble, and several campaigus were necessary
before they were subdued.

Sentitel Edinguages are divided into two sections:
one including the Assyrian, Avancan, Hebrew and
Phomiclan groups; the other embracing the Arabic
and the Ethiopian. The Arabic is the most copious,

the Aramæan the poorest; the Hebrew standing in an intermediary position.

Senate, the higher governing Assembly off2 Legislature. The Senate of Rome originally comprised roo members, all of whom were patricians. The number was increased from time to time, and under Julius Cessar reached oo. The French Senate dates from 799; the United States Senate from the establishment of the Republic.

Sansæchal, a high official of a royal or noble household, the title originating in France in the xoft century, and being afterwards adopted in England and other parts of Europe.

Saparatists, the name given to the Dissenters in the time of Charles 11., who pressed several severe measures against them. In recent times the term

measures against them. In recent times the term has been applied to the Irish Home Rule Party.

Saphardim, the name of the descendants of those Jews of Spain and Portugal who left those countries in the 15th and 16th centuries to avoid the persecu-

tions of the Inquisition.

Benja, a pigment prepared from a black secretion of the cuttle-fish. In the East it is used as a writing ink, but in this country is best known as a colour, which is formed by its being treated with caustic lye. Benoys, native Indian troops under the command of British officers. The name dates back to the 16th

British officers. The name dates back to the sort century when the Prince of Sind had a bodyguard of natives dressed and armed like Europeans. The Sepoys comprise over 150,000 men, the Imperial Indian army containing about half the number. September, the ninth month of the year, and the seventh of the old Roman calendar; hence the name,

from Septimus. The designation was several times changed by the Emperors, but none of the new

names survived for long.

Septambrists were those who took part in the massacre of prisoners in l'aris in September, 1792.

Septuagesima Sunday is the third Sunday before

Bequin, a gold coin of Italy, notably of Venice, which circulated from the 13th to the 18th century. It was worth about 9s. 3d. English.

Berfg, the name given to the slaves formerly existing

in Russia, who answered to the condition of the feudal "villeins" of England. They were attached to the soil and were transferred with it in all sales or leases. They were the absolute property of the landlords. In 1861 the whole of the serfs in Russia were emancipated. Serfom existed in Prussia down to 1702, in Denmark to 1766, and in the German

to 1702, in Denimar to 1702, hereditary States to 1781.

Barga, a mixed worsted cloth much used for male and female garments, and of considerable durability. and remaic garments, and of considerable durability.

Berjeants at Law, the highest degree of barristerrank formerly existing in England; until 1873 it was
necessary for all Common Law Judges to be Serjeants
before their elevation to the Bench. This obligation. was abolished, by the Judicature Act of that year, and no Serjeants have been made since 1968.

Serval, a small carnivorous animal of the lynx order, with black spots on a tawny ground. It is numerous in Africa, preys upon the smaller animals of the deer family, and is sometimes styled the "Tiger Cat." Bettlement, Act of, was passed in 1680, with the object of limiting the Succession to the British Throne to Protestants.

to Protestants.

Seven Champions of Christendom, as set

Beven Champions of Christandom, as set forth in medieval literature, were St. George of England, St. Andrew of Scotland, St. Patrick of Ireland, St. David of Wales, St. James of Spain, St. Denis of France, and St. Anthony of Italy, Seven Churches of Asia, referred to in the Revelation of St. John, were those of Ephesus, founded by St. Paul in 57, Smyrna, Fergamos, Thyatra, Sardis, Philadelphia (now Allah Shahr) and Laodices.

Beven Esgas (or Seven Wise Men of Greece), regarded as the chief philosophers of the age before Socrates, were, according to the best authorities, Solon of Athens; Thales of Miletus: Pittaccus of Mitylene; Blas of Priene: Chilo of Sparfa; Cleobulus of Lindus; and Perlander of Cornith. of Lindus; and Periander of Corintia.

even Sleepers, of the ancient legend, took refuge from the wrath of the Emperor Decius in a mountain

cavern, when they were made to sleep for 300 years. A festival to celebrate their awakening is kept in the

cavern, when they were made to sleep for 300 years. A festival to celebrate their awakening is kept in the Roman Church on 27th July.

Sevan Wonders of the World were: 2, the Pyramids of Egypt; 2, the tomb of Mausolus, King of Carla (hence the word mausoleum); 3, the Temple of Diana at Ephesus: 4, the Walla and Hanging Cardens of Babylon; 5, the Colossus at Rhodes; 6, the Ivory and Gold Statue of Jupiter Olympus; and 7, the Pharon, or Watch Tower built at Alexandria by Ptolemy Philadelphus, King of Egypt.

Seven Years' War was that waged by Frederick the Great and England against Austria, France and Russia, from 1756 to 1763. It resulted in the secession of Silesia to Frussia, of Canada to England, and in the strengthening of our Indian Empire.

Sewing Machine, a machine for stitching cloth or other materials, and operated by manual, steam, or other materials, and operated by manual, steam, or other power. Many attempts were made to produce such a machine between 1760 and 1840, but the first really practical invention of the kind was that of Elias Howe, an American, in 1841. Other sewing machines were afterwards introduced, and many improvements have been effected.

Sexagesima Sunday is the second Sunday before Lent.

Saxagasima Sunday is the second Sunday before

Lent.

Lent.

Baxtant, an instrument which has superseded the quadrant as a measurer of angles between distant objects. It is of special importance in navigation and surveying, and contains to degrees described on a graduated arc. A small telescope is attached, and there are also a couple of mirrors which reflect the distant objects so as to enable them to be a curately observed. It was invented by Hadden in very

observed. It was invented by Hadley in 1731.

Shad, a common sea-fish of the herring kind, abounding on the British coasts and ascending the rivers for spawning in the spring. Its back is dark blue, with

lvery sides.

Shagreem, shark's skin; also a leather of peculiar grain made from skins of wild asses, camels, horses, etc., and mostly manufactured in Astrakhan and Asia Minor.

Shake, a musical term, signifying a vibrant effect produced by the rapid trilling of two notes. Shakers were originally an English sect who emi-

Shakers were originally an English sect who emigrated to America in 1772, and under the leadership of Am Lee established themselves in a community at New Lebanon, in New York State. They practise celibacy and oral confession, hold goods in common, and reject baptism and the Lord's Supper. Dancing constitutes a part of their worship. Shalloon, a kind of Coth manufactured from wool and worsted, and used chefty for women's dresses and cost linings. It gets its name from the fact that it was originally made at Chalons. Shannoof, wood-sorrel, the three-leaved plant native to Ireland and the national emblem. Shannoof, wood-sorrel, the three-leaved plant native to Ireland and the national emblem.

shark, a large and powerful ocean fish, comprising many species, very widely distributed, but most numerous in tropical seas. They have formidable teeth and are the most carnivorous of all fishes. They usually attain a large size, the whale-shart being often of a length of 50 feet. Commercially the shark yields shagreen from its skin, the fins are made into gelatine, and an oil is obtained from the liver.

Shawls are loose coverings worn by women over their shoulders and were introduced into Europe from the East. They are made of various materials, wools, silk, cotton, etc., or of mixed fabrics, and those

wools, silk, cotton, etc., or of mixed fabrics, and those from Cashinere, India, are famed for their beauty of colour and design. At one time these were very fashionable, as were the shavis made at Paisley for the great part of the 19th century. Sheep, a well-known family of runminants of great utility as wool-producers, and for food. From the earliest times sheep have been a source of wealth to England. So much were they valued in the 19th and 19th centuries; hat their exportation was frequently prohibited. The chief English varieties are, the Leetser, Cotswold, Southdown and Chevic breads. Of the foreign breeds the most valued are the Merino sheep of Spain, which yield a fine long wool. At the present day Australia and the Argentine are the largest wool-producing countries in the world.

Eheldrake, a genus of ducks, one of which, the common sheldrake, is an inhabitant of this country. It is a beautiful plumaged bird with white neck, light red body and black head. Another species, the ruddy sheldrake, a native of Asa, appears in Britain only occasionally. See Pears Dictionary of Poultry and Care Birds.

Sheaff, meaning the reward genue and a high terms of the service of the ser

omy eccasions. See tests bittenary of reastly and Cage Birds.

Shariff, meaning the reeve or governor of a shire, has existed as an office in England from before the Norman Conquest. These county officials are now called High Sheriffs, and are nominated each year on November 12th. This office has, however, in recent times lost much of its ancient significance, though it is still usually filled by men of prominence and wealth. They are appointed by the Crown upon presentation of the Judges, except in the metropolis, where the citizens retain the right of electing sheriffs for London and Middleser. Ordinarily the term is applied to officials acting as High Balliffs.

Shibbooleth was the test word which Jephthah used to distinguish the Gileadites, his own men, from the Ephraimites as they passed the Jordan. Such as would not give the word were refused passage. The term is now frequently used to designate any special

would not give the word were refused passage. The term is now frequently used to designate any special watchword or party phrase.

**Mald, a weapon of defence carried on the arm by soldiers before the invention of firearms, mostly made of metal, leather, or wood. In heraldry the term implies a shield-shaped escutcheon, forming the ground on which arms are displayed.

term implies a shield-shaped escutcheon, forming the ground on which arms are displayed.

Shilling has been an English coin from Saxon times, but it was not of the value of 12 pence until after the Conquest. The present style of shilling dates from the time of Henry VII.

Ship-money, first levied in the 11th century, was re-imposed in a very burdensome form by Charles I. in 194-6, and was the immediate cause of the Civil War. London was assessed in 7 ships of 4,000 tons and 2,500 nen, and other places in like proportion. Hampden was the first prominent man to refuse to pay the tax, and there was a general disposition to support him. The Long Parliament declared it to be illegal and in the reign of Charles II. it was ultimately abolished.

mately aboushed.

Ships heve existed from prehistoric times. There is mention of one that sailed from Egypt to Greece in 188 B.C., and in 186 B.C. the Tyrians built a double-decked vessel. No double-decked ship was known in England, however, before the Reyal Harry was built by Henry VII., and it was not until the 17th century that shipbuilding was carried on in this country as a prominent industry.

country as a prominent industry.

hip-worm, a peculiar bivaive mollusc which possesses the power of boring its way through the timber of ships and other wood, and is nighly

destructive.

Shirts do not seem to have been generally worn in Europe before the 8th century. According to Stow woollen shirts were commonly worn until about 1253,

woollen shirts were commonly worn until about rags, when linen of a coarse kind, then first manufactured in England by Flemish weavers, was adopted.

Bhoddy, the name given to a kind of cloth mainly composed of woollen or worsted rags, torn up and re-fabricated by powerful machinery. It was first made at Batley in Yorkshire about 1812, and in later times has become a very important widestreams.

in the Bible and early historical records. The shoes of the Jews were made of wood, rush linen, or leather. Pythagoras directed his followers to wear shoes made from the bark of trees. The Romaus were the first to set the example of costly shoes, and introduced various decorative adornments of intro and preclous stones. In the Middle Ages fashion, played some fantastic tricks with shoes, and in England, about the middle of the 15th century, shoes with such long points were worn that they had to be tied to thee meets for convenience of walking, the dandles using silver chains for the purpose. It was about 1643 when shoes of the present form were introduced, and in 1668 the buckle came into use as an ornament.

These continued in vogue up to the roth century, before which period shoes were not made "rights" and "lefts."

Short Parliament, that of Charles I. in rose, lasting only three weeks.

Shot, the name given to solid projectiles fired from guns. In the time of Henry V. stone shot was used, later leaden shot, then iron shot, and finally steel shot, which was introduced by Sir Joseph Whitworth, and is now very generally adopted.

Shrike, the name of an extensive group of birds, mostly inhabiting Africa and South America. The shrike is commonly called the "Butcher bird," and is of sober plumage. If preys upon small animals and birds, and from the effective way in which it kills its vicims gets its common name. Four species, of victims gets its common name. Four species, of which the red-backed shrike is the most numerous, are visitors to England.

Shrimp, a sea crustacean of the lobster family, is found

In great numbers L the shallow places of our coast.

In great numbers L the shallow places of our coast.

Thou Tuesday, the day before the first day of Lent, receiving its name from the old custom of shriving, or making confession, on that day. In England the day has always been associated with

England the day has always been associated whin the making of pancakes.

Sibyls, or Sibyllse, women reputed to be inspired, who flourished at different periods in various parts of the world. Pliny, Plato, Ællan and Varro speak of some of these weird creatures; and an Erythean Sybll, who offered books of destiny for a large sum

Sybil, who offered books of destiny for a large sum to Tarquin II., is famous in classic story.

Sicilian Wespers, the term applied to the terrible massacre of French people in Sicily in res2a. The French were then in occupation of the island, and had been guilty of many crucities. On Easter Monday at Palermo in the year named, by a pre-concerted signal, a general rising began on the stroke of the Vesper Bell, and spread through the whole island, 8,000 persons belng killed in Palermo alone. The result was the supersession of French by Scanibk rule. Spanish rule.

Siderostat, an instrument invented in 1868 for observing the light of the stars on the principle of

the Camera Obscura.

Siagenita, a variety of Cobalt Linnæite of a nickeli-ferous quality, found at Siegen in Prussia.

ferous quality, found at Siegen in Prussa.

Signala, for conveving information or warning to slijis af sea, were not in much use in any English fleet before the time of Elizabeth. Flags are now most general use, and a very elaborate code in connection with them is adopted, enabling words and soutences to be clearly comprehended by their varied manipulation. Other modes of sea signaling are afforded by steam jets, and at night by flashes of light. Land signalling is usually by heliograph (which see). Semaphores are the principal signals on railways, in connection with coloured lamps. The block-signal system now in general use—which ensures the safety of a train within a given distance by not permitting another train to be on the same line of rails within that distance—has been of great service in preventing railway accidents. There are service in preventing railway accidents. There are also electric, automatic, and pneumatic signals, and for times of fog explosives called fog-signals are placed on railway metals.

Sikhs, a Hindoo sect established in the 15th century but, gradually extending into a powerful race, settled mainly in the Punjah, and of an intensely military spirit. The Sikhs, under Ranjit Singh, strongly opposed the British rule in the early part of the 19th opposed the firsts rule in the early part of the 19th century, and many ferce battles were fought before they were finally subdited, and their country annexed in 1848. They are now amongst the most loyal of His Majesty's Indian subjects.

Silence, Towers of, are towers, usually about 25 feet high, erected by the Parsees of Persia and India for the reception of the corpses of their dead. The yultures flock there and strm the hodies of flesh

The vultures flock there and strip the bodies of flesh, and the bones fall through a grating into a pit, whence the are afterwards removed for burial.

Silheuette, a form of black profile portrait, invented by Etienne de Silhouette in 1759, and formed by an outline cutting made with scissors or other sharp instrument from cloth, paper, or other flat substance.

Silicon, an important non-metallic element entering into the constitution of many earths, migrals, and metallic oxides. Next to oxygen, it is the most abundant constituent of our globe's crust.

abundant constituent of our globe's crust.

Silk, the name given to a soft glossy fabric manufactured from the fine thread produced by the silk-worm. It was known to, and highly prized by the ancients, being at one time paid for, weight for weight, with gold. The manufacture of silk was carried on in Sicily in the 12th century, later spreading to Italy, Spain, and the South of France. It was not manufactured in England before 1604; but when certain French refugees established themselves at Spitalfields in 1698, the industry was developed and became of importance. In the 18th century the Lombes of Derby achieved great success in this industry, and in recent years an important new branch of stilk manufacture was established by Lord Masham at Bratford, by which what is known as "waste silk" is fabricated into plushes, velvets, etc., on an enormous scale. etc., on an enormous scale.

etc., on an enormous scale.

Silkworm, the larva of a species of moth. It is native to China, and has been cultivated with success in Indla, Persia, Turkey, and Italy. The silkworm of commerce feeds on multerry leaves, and produces a cocoon of silk varying in colour from what to orange. The cocoon is the silken habitation concentrate. structed by the worm for its entrance upon the pupa condition, and to obtain the silk the pupa is killed by

immersion in hot water.

Bilures, an ancient British tribe settled in Monmouth
and Herefordshipe at the time of the Roman Invasion,
and with difficulty subdued by Ostorius Scapula, the

Roman General, A.D. 50.

Silver, a white precious metal, found in a free state, also in certain combinations, and in a variety of ores. The chief silver-producing regions are the Andes and The chief silver-producing regions are the Andes and Cordilleras. Peru, Boliva, and Mexico have yielded vast supplies of the metal since the roth century, and Colorado and Nevada, in the United States, have also been very prolific in silver yield. The mines of the Comstock lode of Virgnia City, Nevada, in which Mr. J. W. Mackay, the "Silver King," was interested, have been the most productive in modern times. The deprecation in silver values in recent years has greatly retarded production.

Simbil, a quant kind of African stork, possessing a green beak tipped with red.

Simnel Conspiracy was an English historical incident of 1486, when Lambert Sinnel, a baker's son, claimed to he the nephew of Edward Plan-

incident of 1486, when Lambert Sinnel, a baker's son, claimed to he the nephew of Edward Plantagenet, Earl of Warwick, and heir to the throne. He induced a large number of followers to Join him in rebellion, but his army was defeated and he was taken prisoner, but pardoned and subsequently employed in the Royal household as a menial.

Simoniana, a sect founded by Simon Magus in the 1st century, who held that the gift of the Holy Spirit was to be purchased with money.

Simony, the offence of trading in church offices, has been contrary to English law since the time of Elizabeth, and presentations made for pecuniary consideration are void. Persons making such presentations are liable to heavy fine.

consideration are void. Persons making such pre-sentation are liable to heavy fine.

Sin-eaters were people hired in certain parts of England in olden times to eat bread over dead bodies at funerals, the idea heing that the eaters thereby took upon themselves the burden of the sins of the dead.

- Strople, a ferruginous earth found near Sinope on the Black Sea, and sometimes used as a pigment. Strgang, the scientific name of the green tyckdaw of Asia. It has a bright green crest and bill and feet of coral red.
- Sirius, the dog-star, so called because of its situation in the mouth of the Dog (Canis Major); it is the brightest of all the stars.
- brightest of all the stars.

 Siakin, a small bird of the goldfinch family, common in Northern regions, and of a grey-green colour. It is a lively, swift-flying bird with a very acute bill.

 Sisting Chappel is the chappel of the Pope in the Vatican, renowned for its marvellous frescoes by Michael Angelo.

 Six Articles, The Statute-of the, was passed

in 1830 for compelling adhesion to the chief doctrines of faith:—transubstantiation, communion in one kind, www of chastity, cellbacy of the clergy, private masses, and auricular confession; and those who refused to subscribe to the Articles were treated as heretics. The Act was repealed in 1840. Bixar, a student of Cambridge or Dublin University to whom concessions in regard to their college bills are made by virtue of their having been aided by benefactions. Similar students at Oxford are called

Servitors.

Size, a gelatinous substance used as a varnish and made from shreds of parchment, glue, hides, etc. Skate, a genus of sea-fishes, some of which attain a considerable size. They belong to the Ray family and are much esteemed for food.

Skilling, an old Scandinavian and North German copper coin, varying in value from a farthing to a enny English.

penny English.

Skrink, a smooth-scaled lizard, inhabiting the warmer parts of Africa. Its average length is about sinches, and it is prettily striped.

Skunk, a North American mammal of the weasel family, with short legs and long bushy tail, and of a black colour, with a white patch on the back. It secretes a foul-smelling fluid in a pair of glands beneath the root of the tail, and has the power of ejecting it at will. Anything tainted with this obnoxious fluid retains the odour for days.

Slate, a hard kind of shale rock capable of being split into this sleets, and chiefly used for roofing purposes. The largest slate quarries are in Wales and Cumberland. Slate varies in colour from green to blue and purple.

to blue and purple.

Slavery, in its earlier forms, as in the times of the Romans, in the Feudal Ages, when vassalage and villeinage existed, and in the serfdom of Russia and villeinage existed, and in the serfdom of Russia and other northern nations, was attended by many inhumanities and evils; but perhaps in the negro slavery system which prevailed in the British Colonies for upwards of 200 years and in certain parts of the United States up to 1865, it attained its highest point of cruelry. Since 1833 no form of slavery has existed within the British Empire.

Slings as a weapon of attack find prominent illustra-tion in the Old Testanent, as the instrument with which David slew Gollath. There were bodies of slings were used at late as the 17th century when

it was necessary to economise powder.

Sloop, a fore and aft rigged, one-masted vessel, carrying jub, fore-staysall, mainsail and gaff-topsall.

A sloop of war used to be a gun-carrying vessel of

swift motion and great utility.

switt motion and great utility.

Bloth, a curious family of arboreal animals, only found in South America. They dwell almost entirely in the trees, proceeding from branch to branch with their bodies hanging downwards, and live upon leaves and fruit. When on the ground they move very slowly and with much difficulty, hence their common name.

hence their common name.

Bloyd, a Finnish system of manual training, in
which pupils in the elementary schools are taught
the use of ordinary tools as a preparation for later
technical instruction.

Small Industries. The rearing of snalls as a food
product is carried on in various European countries,

especially in France and Italy. Many species are regarded as edible; but the large white said lifely preferred. The Roman reared this species in enormous quantities. In the United States edible snalls are frequently to be seen exposed for sale; but they are requently to be seen exposed for saie; but they am not raised in that country, and have been shipped to America alive from Europe. In Vienna, again, during Lent there is a snail market, the snails coming in begrels from Swabia. The great centre for the consumption of snails, however, is Paris and some of the French provinces.

Snake, an important order of reptilla, having a scaly cylindrical body, without fore-limbs, and only in some instances possessing rudimentary hind-limbs. Their locomotion is accomplished by means of the excessive mobility of their ribs, which are

very numerous. All snakes have teeth which only serve for selzing prey, and the poisonous varieties are furnished with poison fangs in the upper jaw. These fangs are perforated and the venom passes into them from glands in the skull. Snakes are only found in tropical and sub-tropical regions.

Snipe, a somewhat familiar wading bird, of which two species are found in Britain—the Common Snipe, that appears in the wniter, and the Great Snipe that is but an occasional wnter visits. They are only

is but an occasional winter visitor. They are only

found in marshy districts.

Snow is frozen rain formed in the upper portion of the atmosphere and taking the form of light flakes, which fall to the earth at a much slower rate than

rain. All snow assumes the form of crystals.

Soap (see Dictowary of the Toulet.)

Soap (see Dictowary of the Toulet.)

Soap (see Dictowary of the Toulet.)

Soal Ism, a word that first came into general use about 1834 in connection with Robert Owen's Communistic Settlement at New Lanark. The idea of manistic Settlement at New Lanark. The idea of Socialism is joint ownership by all the members of a community of the instruments and means of production, and there are more or less Socialistic organisations in various countries. About the middle of the 19th century Charles Kingsley and others established a form of Christian Socialism, and the late William Morris, Mr. John Burns and others founded a Socialist League in 1886. There has been a considerable expansion in the Socialistic movement in secret here and many Socialistic movement in secret here and ment in recent years, and many Socialists were returned to Parliament in 1906 and in 1910, but both the two great political parties are opposed to advanced Socialistic tenets. See Syndicalism.

acvanced Socialistic teners. See Symplocalism.
Social Science, which deals with social conditions
generally, has formed a subject of much study in
recent years. In 1852 an Association for the Promotion of Social Science was organised, and has ever
since continued to hold annual meetings. Lord
Brougham was the first President.

Socinians were followers of Lælius and Faustus Sociaus, two Stennese noblemen, who preached in the roth century, and held that there was only one God, that Christ was mortal, and that it was unlawful for princes to make war. Many Socianan bodies still continue to exist.

Boolology, the science of human society, dealing with every torm of social problem and human

with every form of social problem and numan progress.

Soda Ath, cabonate of soda, is now mainly obtained by certain processes of manufacture from common salt. It was formerly obtained from the ashes of plants permeated with sea-salt. Nicarbinate of soda results from the action of carbonic acid gas upon soda crystals, and is a white powder nuch utilised for efforvescent drinks, and for medical purposes.

Sodium, a metallic element first obtained by Sir Humphry Davy in 1807 from soda, by means of the electric battery. It is found in the various forms of salt in combination with chloruse in many numerals,

salt in combination with chloruse in many minerals,

and in most vegetable and annual organisms. **Soil**, the upper portion of the crust of the earth, the medium from which all vegetation springs. It consists of rocky decomposition and organic matter, and is always characteristic of the rocky formation where it is found. It is either dominated by sand, or clay, or chalk, or humus.

Solar System, a general term embracing the sun, the planets and their satellites, and all celestial bodies which revolve round the sun.

Sola, a much esteemed table fish, and one of the best known members of the Marune flat-ish family. The British Common Sole is the finest in food quality, and after that comes the Lemon Sole, which is very abundant in the English Channel.

abundant in the English Channel.

Solicitor, ice Attorney).

Solicitor, ice Attorney.

Solicitor, ice Attorney.

Solicitor, ice Attorney.

Solicitor, when the equator, which occurs about June 21st, when the Summer Solicite is entered, and December 2nd, for the Solstice is ent-Winter Solstice.

Somewast House, a large Government building stretching from the Strand to the Thames at the corner of Waterloo Bridge, and comprising the head-quarters of the Inland Revenue and various other offices and registries. It was built towards the end

of the 18th century on the site of an old palace which had belonged to the Protector Somerset.

Sonnet, E favourite form of short poem in which Shakespeare, Milton, Wordsworth and Keats especially excelled. It consists of fourteen decasyllable lines, and is said to have been invented in the 11th centure the Citled d'averse.

lines, and is said to have been invented in the 1sth century by Guklo d'Arczzo.

Soot, a black substance deposited from fuel, gas or other flame, in combustion, and adhering to the sides of any aperture through which the smoke, which is the principal constituent, may pass. It forms a until manure, and is also of some value as a

medicine.

Sophists were the first Athenian teachers of philosophine were the first Athenian teachers of philosophy in the 5th century B.C., who were supposed to base their reasoning on false premises, sacrificing much to mere quibble of rhetoric. They were denounced by Socrates and avenged themselves upon that philosopher by plotting against him. Plate and Aristotle also raised against the Sophists, and the term "Sophism" has in later times been generally applied to fallactions acquirents. applied to fallacious arguments.

applied to fallacious arguments.

Soroacara were sufficiently numerous in the middle of the 10th century to have severe laws passed against them, and in 1059 James I. nade it a capital offence to pretend to guits of sorcery or witchcraft.

Sound. (See Acoustics.)

Soundings at sea, to determine its depth at any pruit, have been taken in all seas, with the result that the ocean's depths have been defined with considerable accuracy. The decreast rending was that siderable accuracy. The deepest reading was that of the Challenger Expedition in 1873, near St. Thomas's in the North Atlantic, when 3.875 fathoms were sounded. The sounding is accomplished by lead and line

lead and line.

South Sea Bubble, a project entered upon in 1710 as a financial speculation by what was called the South Sea Company. Harley, Earl of Oxford, who was then in power, conceived the idea of utilising this project for getting together a sufficient sum to pay off the National Debt, then standing at about \$30,000,000. The company contracted to redeem the whole debt in 30 years on condition that they were granted a monopoly of the South Sea trade. The idea fascinated the public, fabulous profits being dreamt of, and there was an immense demand for shares, which ram up in value from \$200 to \$2,000. All claves, joined in the gamble, but by the wise policy of Sir Robert Walpole the fraud was exposed in 1720, when the whole scheme collapsed and thousands of people were ruined.

Sovereign, a Bittish gold con worth 200. It was

Sovereign, a British gold coin worth 20s. It was first coined in 1489, and has ever since remained the principal coin of the realm. Its weight is fixed at 123'27447 grams troy, and it consists of 22 parts of pure gold to 2 parts of alloy.

Sparrow, the most familiar of all British birds both in town and country. It is a member of the Finch family, and is hardy and prolific. It was not known in the United States until 1869, when a few birds were introduced, and now it abounds in all parts of

the country.

Sparrow-Hawk, a member of the Falconidæ
family, of which six species only are known, one of
which is a native of Britan, and one of the best known of birds of prey. It is from 10 to 12 inches long

and of an ashy hue.

and of an asily hue.

Speaker of the House of Commons, an official who presides over the deliberations of the Lower House of Parliament. The first Speaker was Peter de Montfort, 12%, but the first regular official to bear the title was Sir Peter de la Marc, 1376. Since 189, there have been four Speakers—John Evelyn Denison (afterwards Viscount Ossington), from 189, to 1372; Sir H. W. B. Brand (afterwards Viscount Hampden), 1872 to 1884; Arthur Wellesby-Peel (afterwards Viscount Feel), from 19, to 1895; and W. C. Gully (Viscount Selby), from 19, to 1895; and W. C. Gully (Viscount Selby), from 1895 to 1905. The present speaker is Mr. J. W. Lowther.

Spectacles gre said to have been invested about 1285 by a Fforentine monk, Alexander de Spins. The invention, however, is also claimed for Roger Bacon and others. The lenses of spectacles are made either of glass or pebble (rock crystal).

** Epectator,** Addison's famous periodical publica-tion, was first issued on March 1st, 1715. The last issue being December 30th, 2714. The fulls of the papers were contributed by Addison and Steele. A review of the same name started in London in 1883,

review of the same name started in London in less, one of the ablest papers of its class.

Spectroscope, an instrument for forming, investigating, and ascertaining the composition of spectra of luminous bodies. It consists of a tube through which the light enters to a collimating lens, and then through the prism under investigation, a telescope

serving the purpose of examination instrument.

Spectrum, the name applied to a colour or band of light reflected from the sun or other luminous body through a small hole or slit refracted by a prun, and resulting in an interminging of various colours—violet, blue, green, red, orange, yellow, indigo. Newton was the first discoverer of the phenomena, and in later times experiments have ed to various chemical discoveries

phenomena, and in later times experiments have led to various chemical discoveries.

Speculum Metal is a white hard substance formed of one part of tin with two parts of copper. From its high polishing quality it is much used for the reflecting surfaces of telescopes.

Spelling Reform is a subject which has many distinguished supporters—publicigits and men of letters—and the "Simplified Speling Sosieti," whose aim is to bring about a system of spelling which shall represent the actual pronunciation of each word, and numbers overa, one members, including Sir James A. H. Murray, Viscount Bryce, Sir William Ramsay, and Andrew Carnegle, is actively engaged in spreading the new spelling propaganda.

Spermatozoa, the infinitesimal organisms constituting the generating element in male animals, and possessing the power of fertilising the fenale ovum. Spiders were formerly classed as insects, but are now included with the animals of the Aracinida class. They have eight legs, breathe through pulmouary sacs, have six to eight eyes, and in most species spin webs composed of a visicid fluid.

Spinet, a keyed instrument of the 17th century, something like the harpsichord.

Sponge, a marine organism of a low order, comptising a series of agreement of another annuals.

something like the harpsichord.

Boonge, a marine organism of a low order, comprising a series of aggregated amoeba-like animals. While the sponge lives a current of water circulates through the man services. It is the dead skeleton of this mass that forms the sponge of commerce.

Boonbull, a large white bird of the Heron family, remarkable for its broad, flat, spoon-shaped bill. It inhabit trunical teruing

remarkable for its broad, flat, spoon-shaped bill. It inhabits tropical regions.

Sprate, a vea hish of the herring order, plentiful on all European coasts. It averages from g to 4 inches in length. It frequently does duty for the preparation of "anchov" paste, as its fiv does for whitebait.

Spurs have been used by horse riders from ancient times, and in the feudal period a knight was allowed to wear gilt spurs and an esquire silver ones.

Squirrels, of which there are over no species, are not found in Australia, but m most other parts of the world are abundant. They are all of arboreal habits, and feed on vegetable substances. The Common Squirrel of Britain is a fair representative of the entire family. entire family.

Stag, a large species of deer, still to be found in its wild state in the forest regions of Scotland, and kept

wild state in the forest regions of Scotland, and kept as a domestic animal in many parks. It has large curved antiers, and is altogether a noble-looking animal, giving capital sport when hunted.

Stage Coaches (see Mail Coaches).

Stalactites are calcium deposits formed on the roofs and sides of limestone caves, and as tunnels, under bridges, and other places where the acid of rain-water percolates through and partly dissolves the limestone, resulting in the growth of icicle-like forms that often assume groupings. The water that drops from these and rests upon the ground is called stalagment, which accumulates and hardens into a series of sharp mounds or hillocks.

Starmap Duttes were first imposed in 1670-7, and applied to certain legal documents only. An important axtension of the Stamp Duty was effected in 1711 by the Newspaper Stamp Tax, which was continued in one form or another until 1855. Stamps on Notes

or Bills of Exchange date from 1782. Since 1865 all fees in the Superior Courts are collected by stamps.

"Standard." a Conservative morning newspaper started in 1827, and an evening issue dating from 1857. In 1705 these papers were acquired by a Limited Company, headed by Mr. C. A. Pearson, when the Evening Standard absorbed The St. Tames's Gasettle.

Standard, Battle of the, fought near North-allerton in Yorkshire in 1738, between the Scots and the English, got its name from the fact that the English forces carried a sacred standard. The Scots

English forces carried a sacred standard. The Scotz led by their king, David, were defeated.

Staroh, is an organic compound occurring in granules in nearly all green plants, and especially in the seeds of dictoyledonous and cereal plants, potatoes, rice, etc. In its pure form starch is a tasteless, odourless white powder, and is a carbohydrate consisting of carbon, hydrogen, and oxygen. It enters largely into various kinds of foods.

into various kinds of foods.

Stare Chamber, an ancient Tribunal of State in existence in 1,86 and possibly earlier, charged with the duty of trying offences against the Government, unfottered by the ordinary rules of law. It was in effect a Privy Council entrusted with judicial functions, and the present judicial Committee of the Privy Council to some extent represents the older Tribunal. Under Charles I. the Star Chamber was used by the King and his party in the most unjust manner to persecute their opponents, and became such a scandal that in 1640 it had to be abolished.

Starling, a well-known European insectiverous bird.

Starling, a well-known European insect vorous bird, one species of which is common in Britain. It nests

StarVing, a well-known European insect'vorous bird, one species of which is common in Britain. It nests in holes and crevices, and is a familiar object on roofs and chimneys in various parts of the country. It has a light-coloured bill and black plumage. States General of France consisted of three Orders, the Clergy, Nobility, and Comhons, and constituted a sort of Privy Council. Louis XVI. summoned the States General to Versailles on 3th May, 1789, when the holy comprised 38 Ecclesiastics, 325 Nobles, and 621 Deputies. That was the occasion on which the Deputies assumed the title of "The National Assembly," with but one House.

Statues. (See Sculpture).

Statues. (See Sculpture).

Statues is coltain and the Pyreness.

Staams, the vapour derived from ware heated to boiling point, and of great service as a motive power, possessing an immense elasticity of force, enabling it to be applied to many industrial purposes.

Staam Engine, a machine whereby steam become the active agent of the working of machinery, and of very wide application. The leading types of steam engine are: (a) condensing, or low-pressure engines, where the steam is generated by a boiler; (b) noncondensing, in which the cylinder chausts its steam into the open air. Engines of the latter type are used where portable engines are required.

condensing, in which the cylinder exhausts its steam into the open air. Engines of the latter type are used where portable engines are required.

Steam Hammer, invented by James Nasmyth in 1830, and proved of great utility in the development of the iron trade. The hammer itself, which is fixed to the end of a piston-rod passing through the bottom of an inverted cylinder, often weighs as much as 80 or you tone, and is an energetive controlled by the or too tons, and is so perfectly controlled by the steam power that its action can be so accurately gauge that it could be made to crack the glass of a watch without actually breaking it, or breaght down upon a mass of molten ron with a force re-

presenting many hundreds of tons.

Stearine, is the portion of fatty matters and oils which remains solid at an ordinary temperature, and is a compound of stearic acid with glycerine. It is largely used in the manufacture of candles and for other compactal research.

largely used in the manuscus-other commercial purposes. Steel, the variety of iron that has been in general use from the earliest times, but how and where first use from the earliest times, but how and where first amount a manuscus. use from the earliest times, but how and where first manufactured remains a mystery. Carbon is regarded as an essential element in steel, otheringre-dients present being silicon, manganess, sulphur and phosphorus. The oldest method, and the one now generally adopted for the manufacture of steel, is that known as the "cementation process," but the most important method of all was introduced by Sir Henry Bossemer in 1855. This is known as the "Bessemer process," which consists in first burning all the carbon out of pig iron, and then putting back

Sir Henry Bessemer in 1825. This is known as the "Bessemer process," which consists in first burning all the carbon out of pig from, and then putting back into it a sufficient quantity of carbon to produce steel containing the required proportion of this element. The metal produced by this process is called "Bessemer steel," which is of the highest value for structural purposes, rails, etc. For the manufacture of tools and weapons steel is indispensable. The United States, Great Dritain and Germany are the leading countries in the world in steel production.

Steel Yard, was a sort of exchange which existed in steel production.

Steel Yard, was a sort of exchange which existed in steel production.

Steel Yard, was a sort of exchange which existed in Street, London, from the 13th to the x6th centuries. It was the chief resort of the Hanse merchants and the Flemings, to whom many privileges in regard to the exportation of English goods to the Continent were given.

Stenography, the art of short-hand writing, was practised by the ancients, but was not in use in England before the x6th century. The systems invented in the 18th century were numerous, but the one that was most widely aclopted was that of Mason, as improved by Gurney. In 1827 Pitman's phonographic system was first announced, which was a decided advance on any previous system, establishing a simple series of phonetic signs, that was easily learned and admitted of great abbreviation. This is the system in general use to-day. Its inventor received the honour of knighthood.

Stereometer, an instrument by which the specific gravity of liquids can be ascertained. It was severally entired and afterwards considerably improved. It is blends into one picture two plant representations of things seen by each eye separately, which has the effect of seening to throw and the picture two plant representations of things seen by each eye separately, which has the effect of seening to throw and the structure of special significance.

natural objects into relier. It was only atter proto-graphy was utilised in connection with the stereo-scope that it because of special significance. **Example 9 Example 9 Example** stereotype plates in 1730. An impression of the type matter is first taken by means of a mould of type intireer is insit taken by means of a mould of prepared plaster of Parls or moistened sheets of specially prepared paper, and when molten stereo metal is poured upon the mould and allowed to cool and harden, the stereo plate is formed, and can be printed from as a solid block indefinitely the propagation of the

printed from as a solid block indefinitely **Stathoscope**, an instrument by which the action of
the heart and other organis of the chest can be heard
and gauged. It was invented by Laëinec, of Paris,
in 1816, and consists of a cylinder, one end having a
funnel-slanted opening which is placed against the
chest, while the other end is held to the listener's
ear. There is also a binaural stethoscope, which has

believed to the control of the action of the control of the two india-rubber tubes for the ears.

Stirrups, a support for a horseman's feet, usually having a metal loop at the bottom. They are attached to saddles, and were not in common use

efore the 13th century.

before the rain century. **Stooks**, an instrument of punishment, consisting of a framework of wood, with holes through which the offender's feet are put, he being compelled to sit in that position for the prescribed time. Much used in

that position for the prescribed time. Much used in olden times, but now practically abolished.

**Salos were the followers of Zeno, a Greek philosopher of the 5th century B.C. They received their name from the fact that they were taught in a porch. Zeno's doctrine was that happiness was only attainable by living agreeably to nature and reason, and that God was the Soul of the World.

Sonehenge, a remarkable collection of huge stones arranged in two citcles, and covering an area of 10,000 feet in circumforence, situated on Salisbury Plain. The general inference is that these stones are the remains of an ancient Druidical Temple, though some maintain that they are of Roman origin.

some maintain that they are of Roman origin.

Stool of Repentance, a seat placed near the pulpit in Scotlish churches in former times, on which

persons guilty of moral lapse were ordered to sit in explating during service.

Stores, a family of heron-like birds with long bills, freely distributed over Europe, Asia and Africa, and inhabiting marshy regions. The White Stork is an occasional visitor to European, And, more rarely, the Black Stork; these are the only two European storks.

Storething, the Norweyian legislative assembly, dates back to 1223, when the first Storthing was held at Hergen by Haco gtil.

Strathspey, a Scottish dance of the reel class, getting its name from the fact that it originated in the valley of the Spey.

Strontium, a metallic element existing chiefly as celestine and strontianite. The native carbonate of Syonta was discovered at Strontian, in Argyll, shire, in 178, and in 1808 Sir Humphry Davy first obtained from it the metal Strontium. It is much used in the preparation of freworks.

Stucco, a mixture composed of plaster of Paris mixed with a solution of glue, and much used in architectural decoration. It was known to the ancients and freely utilised in Italy in the 16th century. Not until the 18th century was it favoured in England. Stundiate, a religious sect of South Russia, converted to Puritan principles by German inssionaries, and subjected to much perspective by the best persons.

verted to Puritan principles by German missionaries, and subjected to much persecution by the peasant adherents of the Greek Church in 1879.

Sturgeon, a large clongated marine fish, with five rows of caseous bucklers, and pointed mouth with four barbels. It is plentiful in the seas of our coasts, and often attains a length of from 8 to 10 feet. It is a good table fish, and passes the spawning period in rivers. Caviare is prepared from sturgeon ova.

Sublimation, the process by which solid substances are first turned into vapour by heating and then allowed to cool into solidity, thus becoming freed from inpurities.

from impurities

from inpurities,
Sublime Porta, the official name of the court of the
Sultan of Turkey. The name was originally given
to a piece of sacred black stone placed at the
entrance to the palace of the caliphs of Bagdad.
Submarine Boats have in recent years become
an important feature of the fleets of different nations.

The French were the first to introduce them. They are of two main classes, large submersible boats of are of two main classes, large submersible boats of considerable range of action, and a smaller kind morely for harbour defence. In 1913 France had 73 submarines, Great Birtian 64, Russa 29, Germany 18. Buoossion, Acts of, have been passed at various periods to secure royal descent in a particular line. That establishing the Protestant Succession, passed in

That establishing the Profestant Succession, passed in 1889, is the one under which our present dynasty reigns.

Suez Canal, connecting the Red Sea to the Bay of Pelusum, was first projected in 1822 by Ferdinand de Lesseps, and the consent of the governments of Egypt, Turkey, Russia, France, and Austria were obtained to its being cut. The British Government, however, withheld their approval. A company was formed with a capital of £8,000,000, mostly subscribed in France, and in 1869 the formal opening of the Lanal took place. It has a length of 99 miles, and was at first of sufficient depth only for vessels drawing 26 feet of water. Since then it has been deepened, and now can recen evessels drawing up to 30 feet of water and operations are in progress for a further deepening. The Canal shortens the distance between Loudon and Bomisay, by about 25 days. The total cost at the and Bombay by about 2, days. The total cost at the time of opening was \$12.00,000, of which \$2,200,000 was paid to the Khedive in shares, and it was the purchase of these shares in 1875 for \$2,000,000 by the British Government that gave Britan a controlling interest which has proved so advantageous to her commerce. These shares are worth \$3,000,000, and yleid over \$1,000,000 per annum individends. In 1870 soo vessels traversed the canal; in 1922 the number was \$3,73, of a total net tonnage of \$0,275,120, no fewer than \$3,320 being British ships aggregating a tonnage of \$2,847,827, Germany coming next with 698 vessels. Sugar, an article of food obtained from the juices of the sugar cane, the sugar beet, the sugar maple, and certain grasses. These yield sugar in its crude form, after which it is refined by well-known processes. Treacle is sugar in its uncrystallised form.

Sulphur, an elementary brittle crystalline solid abounding in the vicinity of volcanoes, & occurs in combination with other elements, such as sulphates and sulphides, and allied with oxygen, hydrogen, chlorine, etc., is of great commercial utility. Used in its pure state it constitutes the inflammable

chlorine, etc., is of great commercial utility. Used in its pure state it constitutes the infiammable element in gunpowder.

Sulphuric Acid, a compound of great commercial importance, used in a variety of manufactures, and composed of sulphur, oxygen and hydrogen.

Sultan, the title of the Turkish Ruler and first held by Angrolipez and Musgad in the 11th century.

Sumpruary Laws were not uncommon in ancient times. Both the Greeks and Romans passed laws against luxury, and under Edward III. and Henry VIII. many curious restrictions were imposed in England, prescribing the quality of the cloth which should be worn by people of different ranks, etc.

Sun, the centre of the solar system, estimated to be distant from the earth 9,200,000 miles, to have a diameter of \$50,000,000 miles, and is 1,305,000 times the weight, of the earth. It has a seeming dumal motion from Laxt to Wost caused by the carth's rotation on its axis. carm. If this a seeining unional motion tool is to West caused by the earth's rotation on its axis, and an annual motion through the ecliptic caused by the earth's revolution round the sun. From these motions we get the variations day and night, and the scasous, Large spots are observed on the sun-varying in size from 30,000 miles in diameter—which form and disappear at irregular intervals. Investi-gation of the solar system shows that in its atmosphilos of the solar system shows that in its aimos-pliere are present hydrogen, oxygen, calcium, radium, helium, sodium, magnesium, lead, uranium, aluminium, and other elements. The sun's temperature is such that it is estimated each square metre of the sun's surface radiates a sufficient quantity of heat per minute to raise ro,000 kilograms of water from freezing to boiling point.

Sinday, the first day of the week, among the Christians called "Lord's Day." In ancient times it was the day on which the sun was worshipped. In Angle-Saxon days the Sabbatil day was kept Holy from Saturday at 3 p.m. to Monday, day-

break.

break.

Sunday Schools have existed in one form or another since the 16th century, that as at present organised were established by Robert Ralkes, a Gloucester printer, in 1780.

Sun Dials. (See Dials.)

Bun-Fish, a genus of sea-fishes of rounded form, of which there are many species. The common sun-fish averages from 4 to 5 feot in length.

Sunnites, the great body of Mahomedians who accept the Skusser, a collection of traditions consenting the shapes of a well see the Kerner, Cally the

cerning Mahomed, as well as the Koran. Only the Shiftes, mostly confined to Persia, reject the Sunna

Surgeons are strictly distinct from physicians, in that they deal with such diseases or injuries as demand operations by instruments for their cure. Most doctors, however, are now both physicians and

Most doctors, however, are now both physicians and surgeons—general practitioners—yet no one is entitled to call himself surgeon until he is a Fellow or a Member of one of the Royal Colleges of Surgeon, or of some other body authorised to confer the degree of Bachelor of Surgery.

Surmannea were not used in England before the Conquest. The elder Normans used the word "Fitz," signifying son, as "Fitzwilliam." The "O" of the Irish meant grandson, as "O'Connor," while the Scottish Highlanders used "Mac" for son, as "Mac Kenzie," "Macintosh," etc. Then shong the English the word "son" lived was simply added to the father's name, as "Jolmson," "Robertson," "Shippson," etc. When surmaines came into use they generally had reference to occupation, places of residence, or personal characteristics, and tills style of maning is responsible for the great majority of or residence, or personal characteristics, and this style of naming is responsible for the great majority of axisting surnames. Smith, Taylor, Butler, Baker, etc., are of the occupation type: Hill, Dale, Brook, Beck, etc., and place-names generally, belong to what may be called the geographical type; while personal peculiarities are denoted in such names as Savage, Redman, Black, White, Brown, etc. Surplica, a white linen garment or robe of office worn by clergymen, choristers, and other church officials during Dvine worship. It first came into use in the 4th century and was general in the 8th century. The fact that this garment was worn by early exclesiastics super seller, that is, above the dressed skins which constituted their ordinary attire in winter, explains the derivation of the word. Suspansion Bridges. (See Bridges.) Suttee, the practice prevalent in some parts of India, until specially prohibited by a law of 180, of the self-burning of widows on their husband's pyre, the idea being, according to the religion of Bruhma, that widows thus immolated passed direct to heaven. As many as 700 widows have thus perished in one year in Bengal alone.

wallow, a familiar summer visitor to Britain, arriving in April and leaving in October. There are nearly 100 species, distributed over most parts of the

globe, but only three visit England—the Common Swallow, the House Martin, and the Sand Martin. Swallow, the House Martin, and the Sand Martin. Swallow, a large water-bird of graceful appearance, greatly esteemed for its whiteness and beauty, and kept on many rivers and ornamental waters in this country. The largest swannery is at Abbotsbury, near Weymouth.

Swearing, on the Gospels, was first introduced in judicial proceedings about 600. There are various enactments imposing fines for profane swearing. (See Oaths.)

Swedenborgians are the followers of Emmanuel Swedenborg. They also call themselves "the New Jerusalemites,"

Swift, a lard so called from its rapid flight, is a native of Southern Asia, and comprises over 50 species. Two species are seen in Britain.

Swiss Guards were a special body of troops established in France in 1616 for the guarding of the Royal person. On the attack on the Tulleries in 1790, the Swiss Guards stuck to their post until massacred.

Swiss Guards stuck to their post until massacred. They were subsequently re-organised in 1815, but finally disbanded in 1820.

Swords, from 20 to 30 incheslong, were used by the Romans. The most famous swords of the Middle Ages were those made of Damascus and Ferrara steel. The term is now applied to almost any long-educal builded unapure.

edged bladed weapon.

edged maded weapon.

Symphony, the title given to an orchestral composition of wide scope, and comprising five different movements — the introduction, allegro, andasare, scherzo, and finale. The most famous composers of symphonics have been Beethoven, Handel, Haydn, and Mozart.

Syndicalism, a new labour movement which demands that industries shall be controlled by those

deniands that industries shall be controlled by indeawho work them.

Synods, assembles of heads or representatives of
State and ecclesiastics for setting disputes relating
to Church authority and government. The first
National Synod in England was in 673 at Hertford,
the last was held by Cardinal Pole in 7555. In Presbyterian churches a Synod is a court of Presbyteries.

Tabanus, the type genus, entomologically, of the Tabanida; a familiar British variety is the Breeze-fly. Taband, a cloak or outer garment worn in mediaval days by the peasantry. The name was also applied to a garment worn by knights over their armour. Tabernael, a place of worship: a screed place; specifically in Hebrew Instory the Temple of Solomon. "Spurgeon's Tabernaele" in London, built for the famous Baptist preacher in 1861, is a familiar non-Jewish example of the application of the name. Tael, a Chinest coin equal in value to 13 oz. of pare silver; the Haikwan customs tael is worth about as, 3d. "Raffety, a kind of silk fabric manufactured in England in the 16th century, and now generally applied to a mixed cloth of silk and wool. Tailor Bird, a familiar bird in India and China, of an olive-green colour, and remarkable for its habit of constructing its nest of leaves, which it sews together.

Taiwing Rabellion broke out in China in 1850, and was intended to overthrow the Manchurian dynasty. It was not suppressed until 1864, when, by the aid of General Gordon, the rabels were crushed.

The Mahal, the white marble mausoleum built at Agra by Shah Jehan in memory of his favourite wife.

Over 20,000 men were occupied for over twenty

years in its erection.

Talayara, Estate of, was fought on the 7th and 3th July, 180, between the British and Spanish forces under Wellmyton, and a large French force under Victor and Selustiani. It ended in complete under Victor and Selustiani. defeat for the French.

defeat for the French.

Tale, a lustrous silvery mineral found in foliated and
granular masses, soft to the touch, and used as a substitute for chalk. Soapstone is a variety of talc.

Talent, an ancient denomination of coin or money
value. In Palestine it was worth 2000 shekels, or
between £300 and £400. The Attic talent was of
the value of about £200, the Roman great talent £50,
the lifth statest £700.

the little talent £75.

Talisman, a charm, consisting or a magical figure, engraved under superstitions observance of the configuration of the heavens, to which wonderful potentiality for averting evil was anciently ascribed.

Tallage, in Norman times, were taxes levied by the Crown upon lands of the royal demesnes.

Tallow, the more solid portions of animal fat, and prepared from heef, mutton, and other fats by melting

at a low temperature. Stearin is its clinef con-

Tally Office, in the Exchequer, was the department of the Government in which tallies were kept, representing the acknowledgment of monies paid or lent; in 1834 the Houses of Parliament were burnt down through the overheating of a stove with discarded

through the overneating of a stove with discarded Exchequer tailies.

Tainud, the book containing the civil and canonical laws of the ancient Jews, comprising the Misina, being a compilation from oral tradition, and the Gennara, which is a collection of criticisms and comments on the Mishna by eminent Jewish Rabbis. There are two Tainuds—the Jerusalem, compiled in the 4th or 6th century, and the Babylomsh, collected in the 4th or 6th century. in the 6th century.

in the 6th century.

Tamarind, a tree of great utility, of which there are two varieties, one peculiar to the West Indies and the other to the East Indies. Its wood nakes good building timber, its bark has tonce properties, its leaves yield a valuable dye, and its fruit is used in the making of sauces.

Tambourine, a light, small one-headed drum, formed of a ring or hoop of wood, or metal, with loose discs of metal let into the sides which jingle when shaken. In ancient times this instrument was called the timbrel. It is much played in Southern Europe as a dance accompaniment, and of late years has had a sort of revival in England, by its use by has had a sort of revival in England, by its use by

has had a sort of revival in England, by its use by girls of the Salvation Army.

Tammany, a New York democratic organisation, sprang out of an old benevolent society named after an Indian chief, and has exerted a powerful influence over political movements in New York in recent times. The leaders of the organisation have in many instances used their power when their party has been successful at the polls in a manure which has brought down upon them the strongest condemnation of the supporters of pute municipal government. They down upon them the strongest condemnation of the supporters of pure municipal government. They have appointed their nominees to every prominent office, and have exacted bribes from contractors asloon keepers, and others for concessions and privileges which they would not otherwise have obtained, and generally Tammany rule has meant wholesale corruption. Of this there is ample evidence in the disclosures of the Tweed and other Tammany frauds, and in the fact that the "Boss" for the time being usually contrives to make himself wealthy. Mr. and in the fact that the "Boss" for the time being usually contrives to make himself wealthy. Mr. Sulzer, Tammany Governo: of Newsfork State, was impeached for misuse of political funds in 1923. Tamilatry, a system of land tenure which once prevailed among the Colts, by which the successor devolved upon the member of the family whom the clan deemed most fitted for it.

Tannin, a substance obtained from a variety of plants

and trees, and from gall-nuts, and largely used in leather making.

leather making.

Tanning, the process by which skins and hides are converted into leather. Tannin, or tannic acid, is the chief ingredient used, and this is obtained mainly from the bark of oak, hemlock, birch, beech, and other trees. The skins are steeped in baths or tanks of the tannic preparation for a considerable time, and in absorbing acid become gradually converted into leather. into leather.

Tantalum, a scarce metal occurring in very small quantities in combination with various rare minerals, such as tantalite, columbite, etc., associated with

minobium.

Tapeatry, a fabric largely used in former times for wall decoration and hangings. It was known to the argient Greeks, but in its modern form came into prominence in the 13th and 16th centuries, when it was manufactured in a market degree of excellence by the weavers of Flanders, especially those of Arras. The manufacture was introduced into England early in the 7th century, and was attended by considerable success. At the present day the term is applied to worsted cloths for furniture coverings, and there are also various kinds of tapestry carpets now made. The most famous tapestres of olden times were the Aubusson Tapestry, and the Savonnerie. The Gobelin Tapestry factory, originated in Paris in the reign of Francis I, is still a national establishment. (See also Bayeux Tapestry.)

Taploca, a food-substance yielded by the tuber of a tropical plant, possonous in its raw state, but purified by roasting.

Taple, a hoofed quadruped of hog-like form, having

Tapir, a hoofed quadruped of heg-like form, having a flexible probosely. It is a vegetable feeder, lives in the forest regions of South America, Sumatra and

Borneo, and is of a dark brown colour.

Tar is a dark viscid product obtained from the dewords mainly used are of the pine family. The product of the distillation of wood, coal, peat, etc. The woods mainly used are of the pine family. The product of the distillation of wood is acid; that of coal is alkaline. In the course of distillation it yields light alkaine. In the course of distillation it yields light to ol consisting of benzine and similar hydrocarbons; dead oil, comprising carbolic acid, amiline, neaphthaline, etc.; and pitch, a leading ingredient in asyhalis and black varnishes. From coal-tar numerous dyes and other compounds are obtained.

Taranula, a large hairy kind of spider common in some parts of Italy, and at one time thought to be poisonow. Music was supposed to be the only cure for its sturg, which superstition gave rise to the Tarantula dance.

Tarantula dance.

Tantinia during.

Tangums, the name given to certain Chaldee paraphrases of portions of the Old Testament, probably of the 1st century. The most valuable of the Tangums which have survived are those on the Pentateuch, ascribed to Onkelos, and Jonathan-ben-Ulizel.

ascribed to Onkelos, and Jonathan-ben-Ullziel.

Tarlatan, a thin transparent mauslin fabric used for light evening dresses or ornamentation.

Tarpaian Rock at Rome received its name from the tradition that Tarpan, the daughter of the Governor of the Citadel who betrayed the fortress to the Sabines, was crushed to death by their shields and buned beneath the rock. It was the height whence persons gulty of treason were hurled to death.

Tarpus, the seven small bones constituting the ankle or instep, including the three metatarsal bones.

Tarpan, the name vere to a cityl of weollen or

Tartan, the name given to a cloth of woollen or worsted plaid, formerly the distinctive material of the dress of the Scottish Highlanders, each clan having its own special tartan. Tartans are now an ordinary fabric for women's dresses everywhere. Of modern varieties there are silk and velvet tartans

Tartar, a term used to denote a person of irascible temper, a vizen or shrew; to "cutch a tartar" was to come into contact with such a one, or to encounter more than was bargained for.

encounter more than was largamed for.

Tartarie Acid, an organic acid of great value
prepared from tartar deposited in wine vats during
fermentation. The commercial tartaric acid is
chiefly obtained from acid potassium tartrate
(Argol), and is largely used in dyeing, calico
printing, and in the manufacture of efferwacing
beverages. The purified sort is cream of tartar.

Tatteraall's, a famous horse-market at Knights-bridge, originated by Richard Tattersall, in 1790, and since carried on by his successors with success, the sale of thoroughbreds being the chief business. Taurin, an organic substance existing in bile, and deriving its name from the fact that it was first discovered in the bile of the ox. It contains sulphur

and nitrogen.

Taurus, the second constellation of the Zodiac, lying between Aries and Gemmi, and including the Pleiades group and a smaller group, the Hyades, among which the star Aldebaran, of the first magnitude, appears.

Tawarns were not known before the 13th century.

In Edward III.'s time there were only three in London: "one in Chepe, one in Walbrook, and the other in Lombard Street."

other in Lombard Street."

Taximaeter is an ingenious contrivance by which the strictly legal fare chargeable for a cab journey is indicated. It is only recently that it has been adopted on a large scale in London, although in Berlin and Paris it has been successfully working for many years. It is now in use extensively in this country both for motor cabs and ordinary cabs.

Taxin is a reshous substance obtained from the leaves of the year-tree.

leaves of the yew-free.

Tay Bridge spans the Tay at Dundee, is over two miles in length, and was opened for traffic on the soth June, 1897. A previous bridge, completed in 1877, was blown down on the 28th December, 1879, as a railway train w.is passing over it, and upwards of eighty people perished

as a raiway train wis passing over it, and upwards of eighty people perished

Tea was introduced into England about the middle of the 17th century, when it was a great luxury, and fetched from 56 to 510 a pound. It is an Asiatic plant, native properly to China, Ipapan, and India. Up to about 1885 the greater portion of the tea imported into this country came from China; the bulk is now obtained from India and Ceylon, although China tea of good quality is again working its way into favour. Green tea and black tea differ by roasou of the method of their drying and preparation for the market, the former being roasted after but a short exposure to the air, and the latter after a much longer exposure.

Teak, the wood of an Indian tree of great hardness and durability, largely used in shipbuilding.

Teal, a small fresh-water duck, of which two kinds, the Common Teal and the Garganey, occur in Britain. Other species—there are seventeen in all—are found in America and other countries.

Britain. Other species—there are seventeen in all— are found in America and other countries.

Te Deum, the song of praise ("Te Deum laudamus"— —"We praise Theo, O God"), is supposed to have been the composition of St. Ambrose in the 4th century. It is "used in the services of the Roman Catholic and English churches.

Teetotalars, a name given to the originators of the first English Temperance Society. The term arose from a quaint assertion of a Preston working

arose from a quant assertion of a Preston working man, when the question of partial or total abstinence was discussed. He declared that nothing but "te-te-to-tal" would do.

Talegraph. The first practical telegraphic instruments were invented by Gauss and Weber in 183, and by Sir Charles Wheatstone in 1836, although the idea of using electricity for transmitting intelligible messages was first suggested towards the close of the 18th century. The Morse-Digney recording instrument, which is now most largely used, is a kind of clockwork arrangement in which the slight clicking sounds alone are sufficient to interpret the message, the letters being inflicated 12 various combinations of dots and dashes. From 60 to 100 words per minute can be transmitted by this method. Of late years various systems of multiplex-telegraphy have been devised, by means of which many messages can be transmitted over the line at the sametime. The principle of add. telegram was adopted by the House of Commons in 1839, but the Act did not come into operation until 1885. The most important and interesting of recent telegraphic developments have been in connection with wireless telegraphy, introduced by Signor Marconi. An arrangement came into force on January 151, 1905, idea of using electricity for transmitting intelligible

whereby telegrams for transmission from wireless stations on the coasts to ships at sea are accepted at a charge of rold, a word. An arrangement exists with Britain and the Marconi Co, for wireless stations in London, Egypt, Aden, Bangalore, Pretoria, and Singapore, linking all parts of the Empire. Since October, 1907, there has been wireless telegraphy between this country and America. Telepathy supposes such a mental sympathy between persons as enables emotional influences to pass from one to another at a distance without external means and independently of the ordinary action of the senses.

the senses.

Telaphona, an instrument for producing sound at a distance over a conducting wire or cord by the agency of electricity, was invented by Graham Bell in 1876, although it is only in recent years that it has come into general use. It consists of a thin disc of iron vibrating in front of a magnet, surrounded by a coil of insulated copper wire which is connected with a similar coil at a distant station. By speaking into the mouthpiece of the telepione, currents of electricity are induced which are transmitted through the line and thus sounds are reproduced. The National tricity are induced which are transmitted through the line, and thus sounds are reproduced. The National Telephone Company, which was an amalgamation of various companies originally formed to develop the telephone industry of this country, was taken over by the General Post Office from January x, 1972. There are International Telephone lines connecting England and Belgum and England and France, and experiments are being conducted with a view to further extending International telephonic communications. Telephone business is largely on the increase for business and business is largely on the increase for business and other purposes in all our populous centres, and now that the Post Office authorities have assumed full control further developments may be looked for.

Talescope, an optical instrument for viewing objects

at a distance, used largely in astronomy, originated in the early part of the 17th century, although its principle was described as far back as 1350 by Roger Bacon. It consists essentially of two members, one Bacon. It consists essentially of two members, one the objective, a large converging lens, or concave mirror, which forms an optical image of the object; the other, the eyepiece, which magnifies the image. The largest reflector in the world is that made by Alvan Clark for the Yerkes Observatory, Chicago The diameter of the object glass in this instrument is 40 inches, and the length of the tube 75 feet.

Palescope Fig. a two-winged tropical insect, remarkable for the long projecting stalk upon which transfer endered.

its eyes are placed. its eyes are placed.

Tallurium, a scarce element found in minute quantities in its native state and in combination with gold, silver, and other metals. It is a crystalline, brittle substance, resembling sulphur and selenium.

Tamnograph, an instrument working by frictional motion governed by pendulous weights, and designed to plot to scale accurately a section of the ground construction to proceed to provide the present of the ground construction to proceed the process.

over which it passes,

to plot to scale accurately a section of the ground over which it passes.

Temperance Societies were originally started in the United States about 1826. The British and Foreign Temperance Society was established in 1831, and the Loudon Temperance League in 1831.

Templars were soldier knights organised in the rath century for the purpose of protecting pligrims in their journeyings to and from Jerusalem, and obtained their name from having granted to them by Baldwin II. a temple for their accommodation. At first they were non-military, and wore neither crests nor helmets, but a long wide mantle and a red cross on the left shoulder. They were established in England about 1180. During the crusades they rendered valuable service, showing great bravery and devotion. In the 18th century they founded numerous religious houses in various parts of Europe and became possessed of considerable wealth. It was this that caused their downfall, Kings and Popes alike grew jealous of their mfuence, and they were subjected to much persecution, and Pope Clement V. abolished the Order in 1312. Edward II. in 326 select all the property of the English Templars. The English possessions of the Order were transferred to the Hospitallers of St. John, afterwards called the

Knights of Malta. The London Temple is on the site of the chief seat of the Order in this country. Temple, a building dedicated to the worship of a deity or delites. Those built by the ancient Greeks, at Olympia, Athens, and Delphi, were the most famous. The Temple of Diana at Ephesus was another. The Temple of Solomon 1012 B.C. was destroyed by Titus A.D. 70.
Temple Bars, an historic gateway that until 1870 stood at the western entrance to Flect Street, near the bottom of Chancery Lane. In olden times it was the custom to impale the heads of traitors over this grateway. Re-erected at Theobald's Park Cheshunt.

was the custom to impace one heads of traintors over tuning gateway. Re-crected at Theobald's Park, Cheshunt.

Tempo, a musical expression referring to the pace at which a composition is to be played, and generally used in combination with a qualifying word, as "Tempo Ordinario," ordinary time.

Temant Right is the right which a tenant has in unexhausted improvements introduced into land he is the combination of the provement of the combination o

relinquishing, and applies both to permanent improve-

relinquishing, and applies both to permanent improvements and migrathered crops.

Tench, a familiar fresh-water fish of the Carp family, averaging some three pounds in weight, and of a minigled green and olive colour.

Tenchrae (darkness), the title given to a solemn service peculiar to the Roman Catholic Church on Good Friday and two previous days, when all the lights but one are extinguished.

Tenor, the part sung by the highest natural male voice. Its compass covers about two octaves, ranging upward from the first C and below the middle C.

Teranhum, the name used by the ancient Hebrews.

Teraphim, the name used by the ancient Hebrews to designate certain household gods partly in human

shape, and greatly reverenced.

Tarado, the scientific name of the ship-worm, which lodges itself when young in the bottoms of ships, and bores its way outward, causing much injury. Modern ships, however, do not offer opportunities to the ship-worm, for even when of wood they are metal-sheathed.

Termites are white ants which abound in hot countries and live in colonies, their habitations being built upon mounds rising to a height of 12 or 15 feet, and constructed with a labyrinth series of galleria and chambers. A king and quoen are at the head of a colony; the rest are neuters, the males being soldiers and the females workers.

Somers and the tennaces workers.

Tern, a species of sea-gull of elegant plumage, smaller than the ordinary gull. There are some sixty species, about a dozen of which are British.

Terra-Cotta, a kind of unglazed pottery, mostly of a red colour, largely used to building and garden decoration. Many terra-cotta examples of Greek statuettes and other objects have been discovered. Terrapin, a kind of fresh-water tortoise common on

Terrier, the name applied to several breeds of hardy dogs ranging from the slaggy Skye to the old English black and tan. The class also includes the fox-

terrier, the Maltese, the Boston, and the Yorkshire.

Territorial. The Territorial force of the British

Army came into being from the 1st April, 1908, when the Volunteer Force and the imperial Yeomanny were combined in the new organisation. This Second Line force is controlled by the various County Associations formed, for this purpose, and is regional in character, formed for this purpose, and is regional in character, each district recruiting one, and three of them two divisions each. There are Divisions, Mounted Brigades and Army Troops, with Artillery and Engineers for defended ports; and the equipment is on the latest modern lines, with wireless, cable and air-line. Telegraph companies, cyclist battallons, etc. In 1013 the Territorials numbered w55,867.

Territary Berles, the third in order of the geological formations, comprising the three sub-groups of the Phocene, Miocene, and Eocene divisions.

Test & 6t, passed in 1673, prescribed that all government officers, civil and military, should be compelled to roccive the sacrament according to the forms of the Church. It was speaded in 1828.

Tester, a French and Scotch silver coin of the 16th century. There was also an Engish tester of the value of 15s, and later on one worth 6d.

Testudo, the name given to a military movement in use-by the ancient Roman soldiers. It consisted of a

defensive screen formed by troops standing close together and massing their shields above their heads. Tetradrichm, an ancient Grecian coin, of silver, equal to 4 dirachmas. Teutonic Order, of German military knights, was founded in the Holy Land, at the end of the 17th century, for succouring the wounded of the Christian army before Acre. Returning to Germany, they established themselves on Prussian territory, but were dispersed in the 18th century by Jagellon, Duke of Lithuania. The Order continued to exist in a more or less weakened form, and in 1800 Napoleon I. ended its existence by confiscating its possessions. ended its existence by confiscating its possessions.

ended its existence by confiscating its possessions. Teutons, a German race that came into prominence in the 4th century B.C., and later invaded Gaul, but were defeated by Marcius ros B.C. The name Testons was afterwards applied to the German peoples generally.

Thaler, a German silver coin which has existed since the 16th century. That of the present day is worth about 3s. English. "Dollar" is its derivative.

Thallium, a scarce metal discovered by Sir William

about as English. "Dollar" is its derivative.

Thaillum, a scarce meral, discovered by Sir William
Crookes in 1867 from the refuse left after the distillation of selenium. It is found in Iron and copper
pyrites, and is employed in the manufacture of glass.
Thames, the principal river of England, rising in the
Cotswold Hills, and passing through Wiltshire,
Berkshire, and Ovfordshire, and pursuing its everbroadening seaward course through Reading,
Window, Richmond, London, Greenwich, and
Gravesend. It is about 220 miles long, and at the
Nore, where it joins the sea, is six miles wide. Commercially, it is the most important river of Great
Britain.

Britain.

Thane, a title of nobility used in Anglo-Saxon times, and in the reign of Athelstan conferred upon any free inan who possessed five hides of land, or had accomplished three sea voyages.

Thanet Beds, a term applied to certain strata of sand, constituting the base of the Tertiary, in the London Basin, and remarkable for its bottom layer of marine finite. of marine fluts

Thaumaturgy, a term used to express something miraculous or wonderful, the name being derived from Gregory Thaumaturgus, a Pontus bishop of the 3rd century, who claimed to have wrought many 3rd century, who classification supernatural marvels.

supernatural marves.

Theatines, a religious Order established in Italy in
the 16th century, for the purpose of repressing
heresy. They bound themselves to poverty, and
refrained from soliciting alms, though they did not
refuse voluntary gift. Some remnants of the

refuse voluntary gifts. Order still exist in Italy.

Theatres are buildings in which plays are performed.

The theatres of the ancient Greeks and Romans were generally in circular form, with there of stone seats around them, and roofless. The first authorised theatre in England was that of Burbage, built in Shoreditch in 1574. Other theatres were creeted at Bankside, in Southwark—the Globe, where some of Shakespeare's plays were first produced, and the Blackfriars. From 1642 to 1650 all London theatres were closed, but at the Restoraall Loudon theatres were closed, but at the Restoration they were opened again, and for the first time women were allowed to appear on the stage, female parts having previously been played by young beardless men. At present there are over 50 theatres licensed by the Lord Chamberlain in London alone, affording accommodation for over 400,000 persons, and at which there is an average daily attendance of between 9,000 and 80,000.

Theism, belief in a personal Delty, and therefore applicable to all leading roligions.

Theilusson Act, passed in 1260, marked an important change in the law regarding a testaors power of devising real property. Peter Isaac Theilusson, a wealthy London merchant, left the bulk of his property, over £60,000, to accumulate

Thellusson, a wealthy London merchant, left the bulk of his property, over £600,000, to accumulate during the lives of his three sons and their sons, edded to the eldest male descendant. Mr. Thellusson died in 1797, and the publication of his will gave rise to so much censure that the Thellusson Act was passed, restraining testators thereafter from devising

property for accumulation for longer periods than 21

property to accumulate property to accumulate years after death.

Theobromine, an alkalold substance found in the seeds or beans of the Cacao plant, and a chief constituent of the coços and chocolate of commerce. It is the alkalold present in tea and coffee.

Theodolite, an instrument, used by surveyors, for measuring horizontal angles upon a circle.

Theodolite, an instrument, used by surveyors, for measuring horizontal angles upon a circle.

Theodolite, an instrument, used by surveyors, for measuring horizontal angles upon a circle. White has the headquarters in Madms, was founded by Mime. Blavatsky and Col. Olcott in 1877, in New York, and has now over 40c branches in different parts of the world. It's professed aims are (1) to form a nucleus of the universal brotherhood of humanity; (2) to encourage the study of comparative religion. encourage the study of comparative religion, philosophy and science; (3) to investigate the unexplained laws of nature and the powers latent in man. Among other things, theosophy claims to "restore to the world the science of the spirit," while its bond of union is "not the profession of a common belief but a common search and aspiration for Truth

Thera peution, the science which treats of the healing of diseases and the laws of health.

of diseases and the laws of health.

Tharmit is the name of a mixture of granulated aluminum and oxide of iron in atomic proportions, and was developed by Dr. Hans Goldschmidt, of Essen Rulir. It is used with success for welding purposes. Thermit may be stirred with a red hot police, thrown into the fire, or have melted cast iron poured over it without setting up any visible action; but, raised to a higher temperature, reaction ensues, and a heat a thousand degrees hotter than any furnace.

Thermo-Dynamics, a term first applied by Joule

Thermo-Dynamics, a term first applied by Joule to designate that branch of physical science which treats of the relations of heat to work. What is called the first law of thermo-dynamics is thus stated by Clerk Maxwell: "when work is transformed into heat, or heat into work, the quantity of work is mechanically equivalent to the quantity of heat." The second law asserts "that heat tends to flow from a body of hotter temperature to one that is colder, and will not naturally flow in any other way." Thermo-Eleotricity is the electrical current resulting from the heating or cooling of two or more dissimilar metals at the point of union.

Thermometer, an instrument by which the temperature of bodies is succretained, was invented by Galileo, and developed by his pupil; in the early part of the tyth century. It consists of a glass tube with a very small bore, containing, in general, mercury or alcohol. This expands or contracts by variation in the temperature, and the state of the atmosphere, the body, liquid, or gas as the case may be, with regard to heat, is indicated by a scale on the surface of the tube. Varius forms of thermometer.

mercury or accoso. I me expans or contract by variation in the temperature, and the state of the atmosphere, the body, hquid, or gas as the case may be, with regard to heat, is undeated by a scale on the surface of the tube. Various forms of thermometer are used for particular purposes. For further information and illustrative comparisons see p. 112.

Thick-Knee, a family of birds closely related to the plover. The only English species is the Norfolk plover. The only English species is the Norfolk plover. Thever's Vinegar was a concection antendly made from rosemary tops, sage leaves, and other articles steeped in vinegar, and believed to be an antidote against the plagme. The tradition was that certain thieves had plundered the dead without catching the infection during one of the instoric visitations in England by reason of having drunk this infusion. In reality, however, it had no such quality. Thirty Tyrants were n committee who ruled Athens, with absolute authority, from 40 403 B.C., when Thrasybulus overthrew them.

Thirty Years' War, between the Romai Catholics and Protestants in Germany, lasted from 1618 to 1648. The chief figures of this war were Wallenstein and Gustavus Adolphus.

Thistiewood Conspiracy was headed by Arthur Thistlewood, who had been imprisoned previously for challenging Lord Sidmouth, and had for it object the overthrowing of the Cabinet, and the assassination of the Ministry, on the occasion of George III.'s funeral in 1200. The plotters met in Cato Street, Tottenham Court Road, London, but

were betrayed and brought to trial, and Thistlewood and four more conspirators were hanged for treason. Thomites, a fanatical organisation headed by a Comish publican named from, who claimed to be Sir W. Courtenay, knight of Malta, and King of Jerusalem, who got up an agitation against the Poor Law Act in 1986. In the disturbances that took place Thom killed several people, be himself and eight others being slain by the military.

Thorium, a scarce metal of the nature of aluminium. It ignites below a rod heat, and burns with great brilliancy.

Thorin Back. a fish of the ray or skate species.

Thorn Back, a fish of the ray or skate species, common in the British seas, and popular as food. It has a mottled skin, in which yellow and light and dark browns intermingle.

Thorough, the name given to the political policy of Strafford and Laud, in the reign of Charles I., when they attempted by a releutiess system of tyramy against their opponents to dispose of all obstacles to the galling of their ends.

Theorough Bases, a musical term applied to a voice part accompanied by numerals, showing the chord applicable to each note. The term also refers to the entire science of harmonic composition.

applicable to each note. The term also refers to the entire science of harmonic composition.

Thous, a kind of fox or small wolf—in some respective resembling a jackal—occurring in Africa and parts of Asia. It is of various colours, but mostly brindled, with dark stripes across the back.

Thrush, a well-known song bird, also known as the throstle and the mavis. It is widely distributed over Europe, Asia, and South America. There are some hundred species, eight occurring in 3ritain.

Thugs were a secret organisation of Indian fanatical assassins. They straughed their victims, and buried their bodies with a consecrated pickase, and set apart one-third of their plunder to the goddess Kaii. These assassins were difficult to suppress, but vigorous measures ultimately, after twenty years' eilort, secured their extermination about 183.

Thumb-Screw, an instrument of torture used in olden times to extort confessions from prisoners. It consisted of a frame of three upright bars, between which the thumb of the victim was meerted; then a screw was turned on with sufficient force to give intense pain without jeopardising life.

Thurot's Invasion was a wild escapade undertaken by Thurot, an Irish naval officer in the French service. He got together a small naval squadron, and landed at Carrickerous with x.com users in the content of the content of

service. He got together a small naval squidron, and landed at Carrickferus with 1,000 men in February 1760. After sacking the town he crossed to the Isle of Man, and there was engaged by Captain Elliot. Thurot (whose real name was O'Faurell) was

Elliot. I duro't whose real name was or arrein was killed and his little army captured.

Thuraday, the 5th day of the week, named after Thor, the Scandhavian deity. To the ancient Romans Thursday was dies Jours, or Jupiter's day.

Thyraus, a staff carried in ancient Greece by the Bacchantes during their festivities. It was tipped

with a pine-cone ornament and frequently appears in ancient sculptures.

Tiara was the name originally given to a head ornament worn by the ancient Persians. The name was afterwards applied to the Pope's Triple Crown, The tiara of the first French kings was a high round cap. At the present day any coronet or frontal head

ornament is styled a tiara.

Tichborne Case, the longest trial ever known in Mahborne Case, the longest trial ever known in English Courts, was begun on rith May, 1871, when Arthur Orton, claiming to be Sir Roger Tichborne, commenced proceedings to establish his right to the Tichborne estates, worth £21,000 a year, and lasted until the 6th March, 1872, having occupied 103 days—the claimant being non-suited and arrested on a charge of perjury. The claimant himself was under the claimant being non-suited and arrested on a charge of perjury. The claimant himself was under examination 22 days, and the speech of Sir John afterwards Lordy Colenidge extended over 26 days. These proceedings cost the estate over £00,000. The claimant's trial for perjury and forgery was begun on the agrd April, 1892, and lasted off and on until the 28th February, 1894, when Orton was sentenced to 14 years imprisonment. He was released on ticket of leave in 1884, and some years later made a written confession of his guilt.

Tides, the periodical rise and fall of the waters of the ocean and its arms, are due to the attraction of the moon and san. Newton was the first to give a general explanation of the phenomenon of the tides. He supposed the ocean to cover the whole earth, and to assume at each instant a figure of equilibrium, under the combined gravitation influence of earth, sun, and moon, thus making and controlling the

There Etat, the lowest of the three estates of the realm as reckoned in France—nobility, clergy, and siers tied—prior to the Revolution.

Tigar, a powerful carnivorous animal of the cat milly, which occurs in India and certain other parts of Asia. Its skin is of a tawny yellow, relieved by black stripings of great beauty of formation. The tiger is hunted in India, and its ferocous disposition renders the soort both exciting and dangerous. The tiger is nonced in initial, and its reroctions disposition renders the sport both exciting and dangerous. The prey of the tiger includes buffaloes, antelopes, and occasionally human beings, though the man-eating tiger is the exception rather than the rule. Tigers attain a length of from x to x5 feet.

Tiger-Cat, though much smaller than the tiger, bears considerable resemblance to it in regard to its markings and general structure. It is found only in India but in Java and South America. It is found not

preys on small game.

Tilea are slabs of baked clay, used for covering floors, roofs, passages, etc.; and of various forms; they were used in ancient times and were often made of marble or enamelled earthenware. In modern

of marble or enamelled earthenware In modern times tiles have been largely used for decorative purposes, especially for fire-places, hearths, and floots, many beautiful designs having been produced. "Times" (The) newspaper was founded in 1785, as "The London Daily Universal Recister," and assumed its present title in 1788. Since 1803 the Walter family have been the chief proprietors and directors. On a reorganisation in 1908, Lord North-cilife acquired a large proprietary share. The egoooth number of The Times was usued on Sept.

10, 1912.

10, 1912.

Tim, a well-known metal generally found in veins of rock, occurring in Cornwall and Devon, the Malay Archipelago, and Australia. It is a white metal, susceptible of being rolled to an extreme fineness, and forms one of the most useful alloys, being a component of Britannia metal, bell metal, bronze,

component to Britainia inclar, bell inclar, include, pewter, etc.

Tin-Plata is thi-coated steel plate, largely used for domestic utensils, and other purposes. The chief centre of the trade in this country is South Wales.

Titanium, a scarce metal found in association with oxygen in rutile, anatase, and brookite, as well as a walls as the proposed in the proposed

oxygen in rutile, anatase, and brookite, as well as with certain magnetic iron ores. It combines with nitrogen at a high temperature.

Tithes, an ecclessastical tax consisting of a tenth part of the annual produce, known to the ancient jews, and first imposed by Christian authorities in the 4th century, although not made compulsory in England before the 9th century. Tithes derived from land are termed "prædial." those derived from cattle being styled "mixed," while others are personal. After the passing of the Tithes' Commutation Act of 185, (these were gradually converted into rent charges, and to-day the old form of tithes exists only to a small degree.

thio rent charges, and to-day the old form of fithes exists only to a small degree.

Titles by Parechase. Titles cannot be bought—at least directly—in this country, but on the Continent it is different. A title of nobility from one of the Gernan States costs £8,000, while that of baron of the empire may be obtained for the sum or £72,000. In Spain one may receive the Order of Charles III., of Isabella, or that of Merit, "your choice" for £30, the Cross of the Chevalier or any title of nobility for £1,000. At the Vatican the Orders of Plus IX., of Gregory, and of Silvester have been soid: the Commander's Orders for £30, that of Chevalier for £100, Ceutt £2,400.

Tismouse, a small but powerful bird of the woodlands and forests. There are over 90 species, 5th of which occur in British, the long-titled timouse being the most common. The other British varieties are

the grast titmouse, the coal titmouse, the massa-titmouse, the blue titmouse, and the crested titmouse, whose names sufficiently describe their peculiarities. They feed on insects and larve, and are found in North America and Asia as well as in Europe.

Tobacco is made from the leaves of various narcotic plants of the Nicotiana family, which contain a volatile oil and an alkaloid called nicotine. Tobacco puners or the retochana family, which contain a volatile oil and an alkaloid called nicotine. Tobacco is largely grown in America, Cuba, France, and other countries of a warm climate. It undergoes various processes of preparation. The leaves are first dried, then cut into small pieces, moistened and compressed, and in this form is known as cut or "shag" tobacco; when moistened with syrup or treacle and pressed into cakes, it is Cavendish; when twisted into string form, it is "twist" or "pigtall." For cigars the mid-ribs of the dry leaves are removed, and what is left is 'moistened and rolled into cyliadrical shape. For snuff, the tobacco leaves are moistened and allowed to ferment, then dried, powdered and scented. The consumption of tobacco in the United Kingdom is over 91,000,000. Toga, an outer robe worn by the ancient Romans, and corresponding to the pallium of the Greeks. It was white and made of wool, and was the distinctive garb of the Roman citizen.

arb of the Roman citizen.

Toleration Act was passed in 1689, to relieve Protestant dissenters from the more serious of the disabilities under which they had previously laboured.

disabilities under which they had previously laboured. Folls, payments for privileges of passage, existed from very early times. They were first exacted in respect of ships passing up rivers, tolls being demanded on the Elbe in 2100. Tolls for land passage are said to have originated in England in 1265, toll-bars being erected at certain distances on the high-roads in the 17th century, where toll had to be paid for all vehicles passing to and fro. After about 1825 they began to disappear, but have lingered here and there excenter range down to a second them. there on country roads down to very recent years.
Tolls on London river bridges ceased in 1878-9.

Tomahawk, an axe-like weapon formerly in commo use among the North American Indians, who showed

use among the North American Indians, who showed great accuracy of aim in throwing lt.

Ton, a weight of ao cwt. avoirdupors, or 2,240 lb. In the United States the ton is an even 2,000 lb.

Tonic Soi-Fa system of musical notation, in which letters are substituted for notes, was invented about 1840 by Miss Glover, of Norwich, and afterwards developed with considerable success by the Rev. John Curwen. The Tonic Soi-Fa Association was founded in 1852, and the College in 1862.

Tonsure, the shaven part of the head of a Roman Canule. The ceclesiastic, dates from the 5th or 6th century. In the Roman Catholic Church only a circle, or a crown, is shaved, while in the Greek Church the hair is wholly shaved off.

TOPBES, a transparent mineral gem, being a silicate

Church the hair is wholly shaved off.

TOPERS, a transparent mineral gem, being a silicate
and fluoride of aluminium, and generally found in
granutic rocks. Its usual colour is a variety of
yellow, but it also occurs in pink and blue shades.
The best kinds come from Brazil. It is also found in
Scotland, Cornwall, Siberia, and the United States.
A pure topaz has the brillancy of a diamond.

Topa a small kind of shark comercines called the

Tope, a small kind of shark, sometimes called the dog-fish. It occurs in European waters; one species, which has a dark back, and is white underneath, is

found in British seas.

found in British seas.

Torleas, a political party name which came into use about 1698. They supported the hereditary doctrine of divine right, were opposed to Dissenters, and were essentially members of the Court party. In later times they opposed the Reform Bill and held out for the maintenance of Church and State unimpaired. The word is still used to express a more rigid adherence to the older principles of Toryism than is implied in the word "Conservative." Teirpedoes, (See Nawy.)

Torfs, a legal term specifying an actionable wrong, apart from mere breach of contract. Toris are classed as wrongful acts, such as trespass, libel, etc., and acts resulting in pecuniary loss, such as negligence, nuisance, etc.

Tortoises or Turties are cold-blooded reptiles, four-footed, and encased in a strong shell protection, the shells of some species being of beautiful horny substance and design, in much demand for combs and ornamental work. It is the custom to designate the land species as tortoises and the aquatic kinds as turtles. The commercial tortoise-shell, however, is chiefly obtained from soa-turtles. Tortoises about all warm climates except Australia. The green turtle from which the celebrated soup is made is a marine reptile found chiefly in the Indian and Pacific Oceans.

Torture, as a form of punishment was in mich services.

Torsure, as a form of punishment, was in use among the Romans, though only upon the persons of slaves. In the Middle Ages it was commonly resorted to, especially in connection with charges of heresyl. It was held that torture would make a guilty person confess, but not an innoceat one. It was not inflicted in England after 1640. As practised by the Spanish Inquisition it included a terrible variety of suffering, often being carried to the point of death.

Tongan, the name of a South American family of birds, remarkable for their huge bills, are brightly coloured, and often attain a length of from 6 to 8 inches. Toucans live on fruit, are of arboreal habits, and nest in loles. Torture, as a form of punishment, was in use among

habits, and nest in holes,

Touchstone, a kind of Jasper called by the ancients "Lydian stone," of economic value in testing the quality of metal alloys, especially gold alloys. The testing process is very simple. The alloy is drawn across the broken surface of the Touchstone, and from the nature of the mark or streak it makes the quality of the alloy can be ascertained,

Tourmaline, a mineral occurring in different colours in prismatic crystals, and remarkable for its action on light, it having the power of polarising light rays under certain conditions. It is a double silicate of aluminium, iron, and certain other metals, and occurs in Cornwall, Devon, South America, and Asia.

Tournaments were equestrian contests between military knights and others armed with lances, and prevailed through almost the whole period of the Middle Ages. They were introduced into England by the Normans

by the Normans

Tower of London was a royal palace from the
time of the Conqueror, who began the building of
the White Tower in 1098. Later kings made considerable additions. From the 15th to the 18th
centuries many princes and nobles were executed or
imprisoned here, and here Henry VI., Edward V.,
and his brother were put to death. The Crown
Jewels are kept at the Tower, and in the Armoury a
fine collection of armour of various dates is preserved.

Towrton, the Yorkshire village between Leeds and
York, where, in 1461. Edward IV. defeated the
Lancastrians and established his rule.

Lancastrians and established his rule.

tous, where, in 1401, Edward IV. deteated the Lancastrians and established his rule.

Tractarianism, a term that came into use from about 1833 in reference to a religious movement, headed by Pusey, Keble, Newman, and other Oxford high churchmen, who published "Tracts for the Times," in which their views were set forth. Among other things, they advocated a higher degree of ceremonial in worship, and their enthusiasm put new activity into the Church, although the secession to Rome of some of their more prominent members showed the tendency of the movement.

Trafalgar, Battle of, was fought off Cape Trafalgar on the 21st October, 1805, between the British and the combined French and Spanish Fleets, the former, under Nelson's command, consisting of twenty-seven vessels; the latter, under the command of Villeneuve, comprising eighteen, French and fifteen Spanish men-of-war. The British destroyed, captured, or sunk nineteen of the enemy ships, and a complete victory was gained, though at the cost of Nelson's life.

Tranaways were first established in New York by

Them ways were first established in New York by John Francis Train about 1898, and the first English tramway was opened in 1865 at Birkenhead. The trainway was opened in 1000 At Dispanies. In the first London trainway was established at Bayswater, in 1801. It was not until after 1800, however, when an Act to facilitate the construction of trainways was passed, that any great extension of those roads took place. Between 1800 and 1880, agg miles of trainways

were constructed in England and Wales. Up to this time the cars had been drawn by horses. A steam cable transway was opened on Highgate Hill steam cable transway was opened on Highgate Hill in 1884, and steam came to be largely employed during the next few years. In later years, lowerer, electricity has gradually supersented other forms of motive power on transways, and the result has been an enormous extension of this method or transit. In 1898 there were only 260 miles of transways open within the United Kingdom, and in 1997 there were about 3,000 miles open. The capital expended is about 74 millions sterling, and the majority of the systems in running are electrified, and under municipal control both in London and the great provincial towns. The number of passengers carried exceeds 2,743 millions per annum. Electric transway development, however is being considerably arrested by the extension of the motor-bus services. Franscandentalism, a term applied to a system

arrested by the extension of the motor-bus services.

Transcondentalism, a term applied to a system of philosophy which transcends ordinary experience, It originated in Germany, and had for its chief aposties Richter, Fichte, and Shelling. In America Emerson propounded transcendental theories.

Transapt, the portion of a church which extends across the interior between the nave and the choir. The terminal portions are called respectively the

The terminal portions are called respectively the north and south transepts. Some of the older north and south transepts.

north and south transepts.

Transmigration of Souls was a doctrine expounded by Pythagoras, and forms part of the Brahmin and Buddhist religions. The ancient Greeks termed it metempsychosis, and the theory is that after death the soul of a man passes into the body of some other man or animal.

ot some other man or animal.

Transubstantiation, a term which first came into recognised use in the controversy between Berengarius and Lanfranc in the 11th century, indicating the supposed conversion of the bread and wine of the Eucharist into the body and blood of Christ, and called the doctrine of the "Real Presence.

Trappiets, an austere monkish Order founded at La Trappe, in Normandy in 1140. A new Order of Trappists was established by Rance in 1662, after which the members of the Order were enjoined to silence, prayer, reading, and manual labour, and forbidden to study or to eat fish or drink wine. They were expelled from France when the Revolution broke out, and for a time were settled in Worcesterbroke out, and for a time were settled in Worcestershire, but in 1815 they removed to Mount Melleray, in Co. Waterford, Ireland, where they established a new community. There are to-day Trappist' Monasteries in France, Belgnum, Italy, Algera, Ireland, and the United States.

"Travellers" Trace," the name given to a peculiar kind of tree which grows in Madagascar, its branches and leaves forming themselves into the shape of a peacock's tail. The leaves are several feet in length, and their stalks are full of water, which famishes a refreshing drink to travellers.

Trandmill, a large cylindrical machine provided with a series of steps, and maintained in rotary

with a series of steps, and maintained in rotary motion by the pressure of men's weight. A rail is fixed outside the wheel, and to this the workers of the treadmill hold by their hands, while their feet are kept continually in motion from step to step, the weight of their bodies keeping the machinery revolving. It is at present used chiefly in prisons as a form of punishment.

as a form of punishment.

Treasure-Trove, a legal term applying to money, plate, or bullion found hidden in the earth, or elsewhere, and for which there is no owner. The treasure legally belongs to the Crown, but it is the practice to reward the finder with tite full value of the property on its being delivered up.

Trable, in music, is the highest part of vocal or instrumental Busic, as sung by soprano voices, or played by the violin or other instrument of high pitch. Gree-Frog, a kind of frog very pientiful in South America, and fairly represented in Europe, Asia, North America and Australia. The European kind is of a greenish colour, and while on the tree is difficult to distinguish from the foliage. It possesses feet of peculiar formation, with discs exuding a sticky

composition, which enables it to hold to trees and

other objects with ease.

Trent, Gouncil of, first sat in 1545, the last sitting being on the 35th of Docember, 1562. It was at this Council that, at the time of the Reformation, the

Council that, at the time of the Reformation, the general policy, principles, and dogmas of the Roma Catholic Church were authoritatively settled.

Triassic Formation is the lower division of the Mesozoic series of rocks, lying above the Permian and below the Jurassic series. The Triassic in Britain is sub-divided into Upper and Lower Trias, the former comprising marl and shale, and the Lower consisting chiefly of red sandstone. This formation does not give any special yield of fossil remains.

Tribunes, of the Romans, were first elected from the people in 498 B.C. At first there were only two, then the number was raised to five, and finally to ten. They held the power of veto, and their persons were regarded as sacred.

Tribology, the flag of the French republic since

Tricolour, the flag of the French republic since 1789, consisting of three equal vertical bands of red, white, and blue.

Triannial Act, which fixed the duration of Parliament to three years, was passed by the Long Parliament in 164r. Charles II. repealed this Act, but it was re-enacted in 1604, to be repealed again in 27th by the passing of the Septemial Act, which still remains in force.

Trigonometry, a department of mathematics dealing with angles and their functions in every form, and divided into two sections—plane trigonometry and apherical trigonometry.

form, and divided into two sections—plane trigonometry and tpherical trigonometry.

Trimmer, a name that came into use in English
politics in the latter part of the tyth century, being
specially applied to the party headed by the
Marquis of Hallfar, who was charged with adapting
himself to Whigs or Tories as occasion served.

Trimmerl, the Hindu trad, Brahma, Vishnu, and
Siva, symbolased as an entity. In the depictions of
the Trimurt intree distinct heads are represented,
the theological unity combining Brahma, the creative
power, Vishnu, the preserving element, and Siva,
the destroying principle, in one supreme unification.

Trinity, the term applied to the Godhead, "three
persons and one God," as it is expressed in the
Litany—Father, Son, and Holy Ghost. The doctrine
of the Trinity has general acceptance among
Christian communities, and has been explained in
different ways. One of the earliest statements of it is
the Athanasian: "We worship one God in Trinity,
and 'Trinity in unity: nether confounding the
Persons, nor dividing the substance."

Trinity House, on Tower Hill, London, was
incorporated in 1514 as an association for poloting
ships, and has ever since been entrusted with various
matters connected with the regulation of British
naviestice. Since. 1844 the Enthymuse of the

snips, and has ever since open entrusted with various matters connected with the regulation of British navigation. Since 1854 the lighthouses of the country have been under its supervision.

Triple Alliance. There have been several Triple Alliances; among others that of England, Sweden, and the Netherlands against France in 1668; that of Great Britain, France, and the Netherlands in 1717 against Spain; and that of Germany, Austria, Italy, in 1882, against Russia and France.

in 1882, against Russla and France.

**Priptych, a picture, carving, or other representation, generally panelled, with two swing doors, by which it could be closed in; frequently used as an altar piece. Also a writing tablet in three parts, two of which folded over the one in the centre.

**Prisame*, an ancient vessel with three rows of oars, of great effectuality in early naval warfare. Mentioned by Thucvdides. It was a long, narrow vessel propelled by 170 rowers. The Romans copied it from the Greeks, and used it with considerable adventiges. · advantage.

advantage.

Pisagion ("thrice holy"), an ancient Jewish hymn, still regularly sung in the service of the Greek Church. A version of the "Tersanetus"—also forms part of the Anglican Eucharistic service.

**Trisula.*, a trident embiem of Siva, the destroying principle of the Hindu trinity.

**Triumvirate.*, a term used to denote a coalition of three persons in the exercise of supreme authority. The first Roman triumvirate was that of Pompey,

Julius Gesar and Crassus, 60 B.C.; the second was that of Mark Antony, Octavian and Lepidus, 43 B.C. There save been modern instances of office-holding by triumvirate, the most notable being that of Jefferson, Madison and Gallatin in America. The term is used also in respect of any trio or triad of persons or qualities.

Proflodyte, signifying "a cavo-dweller"—a term used by several classic writers in speaking of pre-historic races who lived in caverns and excavations where they could be safe from the attacks of wild animals. Evidences of such existence have been found in many parts of Europe, and there are cavedwellers to this day among certain Indian tribes of North America.

North America.

Trogion, a bird of the woodpecker family, famous for its long curved tail, extending to two feet or more. It is strictly a tropical bird, and is found in Central America, India, and Africa. The upper part of its plumage is of a rich golden green, while below it is of a bright crimson.

Trombone, a well-known brass musical instrument of the trumpet order, comprising three tubes, one of which fits into another and can be moved to and fro to produce the various noter. The tone of the trombone is rich, and it forms one of the most useful adjuncts of a modern orchestra or band. adjuncts of a modern orchestra or band.

Troop, as constituted in the British cavalry force forms a body of 56 non-commissioned officers and men, commanded by a captain and two lieutenants

A squadron comprises two troops.

Trophies are memorials of victory, often consisting of arms or other spoils captured in hattle. In modern times trophies have often taken the form of symbolical erections, but, generally, a trophy constituted an object or a group of objects taken from an enemy, or captured in the chase, such as arms, flags, etc.

Trople-Bird, a long-tailed kind of sea-bird of white

Tropia-Bird, a long-tailed kind of sea-bird of white plumage, about the size of a pigeon.

Troubadours was the name given to the early Provençal poets, whose rhymes were chiefly devoted to chivalry and romance. They did much to cultivate the romantic sentiment in days when society was somewhat barbaric, and helped considerably in the formation of those unwritten codes of honour which served to mitigate the rudeness of mediaval days. served to mitigate the rudeness of mediaval days. Their vogue was from the rith to the 13th century, and they were chiefly of knightly rank. With the deciline of chivalry their occupation was gone, and though minstrels of a commoner type continued to appear as troubadours for some time later, men of the true troubadour spirit no longer existed.

Trout, a fresh-water fish of the Salmonidæ family, with dark spots, common in the lakes and rivers of Europe, and much esteemed by anglers.

Trouwers or Trouwers were medievel poets, of northern France, whose productions were of a more elaborate character—epics, romances, fables, and chamsons de geste—than those of their contemporaries the Troubadours.

the I rouoadouts.

Trumes are a subterranean edible fungus much esteemed for seasoning purposes. There are many species, and they are found in considerable quantities in France, England, Italy, and other places. They are often met with under birch or oak trees, and prefer calcareous soils, but there are no positive indications on the surface to show where they are, and they are not to be cultivated. Hogs, and sometimes dogs, are used to scent them out, the former, by reason of their rooting propensities, being the most successful

in the work.

Trumeau, an architectural term denoting a piece of wall, generally a central pillar or column between two openings, such as those of arched doorways. In niches of these trumeaux a sculptured figure was often placed in the churches of the mediaval period.

Trumpet, a very ancient wind musical instrument consisting of a single tube of brass or other metal, and in olden times used chiefly for military music, though new adopted in orchestral composition. Handel was fond of this instrument, and wrote some fine music for trumpet obbligato.

fine music for trumpet obbligato.

Trunk-hose was the part of the hose which covered the trunk or body, and extended in bas form from

the waist to the middle of the thigh, enclosing the hips. In vogue in the 16th and 17th centuries. Teambe, the cereal product of Tibet, Tarsary, and parts of China, from which the chief food of the

parts to China, from which the chief tood of the people is made.

schefficinite, a mineral of velvet-black colour found in certain parts of Russia, named after General Tacheffidin. It is a silicate whose exact constituents

Treatme, an African dipterous fly of considerable size, whose bite is poisonous, and often fatal to animals.

Tsubs, a fat piece of metal constituting the guard of a japanese sword, usually pierced and decorated "uberculosis is a disease resulting from the formation of tubercles and the presence of tubercles bacillus. Tuberculosis of the lungs is what is known as consumption.

as consumption.

Tudor Parlod extends from 1485 to 1603. The first
Tudor sovereign was Henry VII., descended
from Owen Tudor; then followed Henry VIII.,
Edward VI., Mary, and Elizaiseth, the last of the line.

Tuasday, the third day of the week, named from
the Saxon deity Tuisto, Tiw, or Tuesco. To the
Romans, it was the day of Mars.

Tulleries, a French royal and imperial palace, dating from 1964. It was attacked by insurgents during the outbreaks of 1902, 1830, and 1848, and in 1871 was burned down by the Communists.

1871 was burned down by the Communists.

Tullpornania was a 7th century craze for the possession of rare tulips, which attained its height about rogo, and led to financial pain in Holland. A single bulb of "Semper Augustus" was sold for 73,000 florins. Dumas the elder, in his story, The Black Tulip, gives an interesting picture of the period. Tulle, a delicate kind of silk lace, originally made at Tulle in France. It is much used for the ornamentation of ladies' garments, hats, etc., and for veils.

Tulle in France. It is much used for the ornamentation of ladies' garments, hats, etc., and for veils.

Tunuins, a mound of earth rused over the bodies
of the dead. The mound of Marathon, enclosing
the bodies of the Athenians who were killed in the
famous battle with the Persians, is a celebrated
tunulus. Such mounds were commonly raised over the tombs of the distinguished dead in ancient times. and sometimes enclosed heavy structures of masonry. The Roman "barrows" were tumul. Evidences of such mounds are frequent in prehistoric remains

such mounds are frequent in prelisions remains
Tun, a liquid measure formerly in general use, but
now obsolete. A tun of ale was 216 gallons.
Tundra is the name of a vast troeless plain of
Northern Russla with small lakes and morasses
scattered here and there, but almost devoid of
vegetation. It is a cold, hare region, where only the
reindeer can find sufficient sustenance.

Tungsten, a metal some of whose ores are known as wolfram and sheelite.

Tunny, the name of a species of mackerel common in Mediterranean and Atlantic waters. Grows to a great size-eight or ten feet frequently—and is the object of important fisheries. A large trade is done in preserved tunny.

Turban, a head-dress worn by men in Oriental controller and consurer of a searly reasoned round the

Turban, a head-dress worn by men in Oriental countries, and consists of a scarf wrapped round the tarbooch or cap. Turbans vary m material, colour, and folds, according to the rank of the wearer. Turbanes, propelled by steam, have recently come into prominence in connection with steamship transit. Numerous vessels are now affect and many

more are building of this type. Although the principle was embodied in patents of sixty years ago, it sonly within the last few years that any special effort has been made to secure its more general adoption. Turbine engines have been decided upon for many new British liners, and a considerable number have been successfully tried in America. The English Channel service has also got its turbine steamers, and a torpedo turbine is a recent achievement. For high speed the turbine class of steamer possesses

advantages over ordinary reciprocuting eigenes.

Tambot, a large flat fish, highly valued as food. I often attains from 30 to 40 lbs. In weight. Its flesh is white and firm. It is confined to European waters, and is caught by line or trawl.

Turkey, a fowl of American origin, brought to Europe from America soon after the dis-

covery of that country. It was a domesticated bird in England in the first half of the 16th century. covery of that country, bird in England in the first half of the 16th century. As a wild game bird it still exists in large numbers in Mexico, its native country, and in the Southern States of America. The turkey in domestication has greatly developed. The cock turkey often attains a weight of 30 lbs. It has a lustrous plumage; the head and upper part of the neck are bare of feathers. The hen is smaller. At Christmas time in England, and on Thanksgiving Day in the United States, the turkey is the chief ornament of the festive table. Turmeric, a yellow dye substance obtained from an East Indian plant of the ginger class, which is cultivated in other warm climates also, for commencial purposes. Turmeric, in its commercial form, other thanks of the property of the states of the states of the states.

purposes. Turmeric, in its commercial form, emprises the root of the plant dried or powdered. It is likewise used in the preparation of curry powder,

and has an alkaloid taste.

Turpentine, a resinous substance obtained from a "urpentine, a resinous substance obtained from a variety of mostly conferent trees, the Pinns australia, of which there are large forests in North Carolina, being the most productive of the olly matter. The crude turpentine undergoes distillation, the oil which is separated from the resin being colourless and of a pungent odour. Its uses are many. It is largely utilised in making paints and manufact and bernaddish unnested.

many. It is largely utilised in making paints and varmishes, and has medicinal properties. Turquoise, formerly called Turkey Stone, is a blue, or greenish-blue precious stone, the earliest and bes-specimens of which came from Persia. It is composed specimens of which came from resia. It is composed of a phosphate of aluminium, with small proportions of copper and iron. India, Tibet, and Silesia yield turquoises, and a variety is found in New Mexico and Nevada. It derives its name from the fact that

and Nevada. It derives its name from the lact that the first specimens were imported through Turkey.

Turtle. (Sec Tortoise.)

Turtle-Dove, a small kind of wild pigeon, which visits the southern parts of England about May and remains until September. The heads of the male birds are a light blush-grey, the back is greyish-brown, while the breast has a purple tint. The ferrile were prepared we colour. female is less pronounced in colour.

Twankey is the name of a small river in western China, and supplies the name of a kind of tea grown in that region, in considerable favour with a large

class of consumers

Tweed, a twilled fabric, consisting of two or more colours of yarn combined in the same cloth, and should be entirely of wool, though there are inferior kinds in which cotton has a part. The surface of the cloth is unfinished. Tweed was originally woven in the valley of the Tweet, hence its name, but is now manufactured in all cloth-producing centres.

Twelfth Night is the eve of the feast of the Epiphany, and in olden times was made the occasion of many festivities. It was the most popular festival next to Christmas, but is now little observed.

Territight is the light which is reflected in the atmosphere when the sun is below the horizon before sunrise or after sunset. The term is most usually understood to refer, however, to the evening light; the morning light we call dawn. The twilight varies in duration in different countries, according to the mostion of the num. In trovice countries, it is above. position of the sun In tropical countries it is short; in the extreme north it continues through the night Tyburn, the name of a turnpike which formerly stood near the present Marble Arch, and a notorious

place of public execution of criminals.

Tycoon, a title often used by foreigners to designate the Emperor of Japan, but not used or recognised by the Japanese. The title seems to have been coined in 1854 by those concerned in concluding the treaty between the United States and Japan. In

treaty between the United States and Japan. In Japanese Tycono simply mean. "great prince."

Tynnpanum is, in architectural phraseology, the triangular space at the back of a podiment, or, indeed, any space in a similar position, as over a window or betyeen the lintel and the arch of a doorway. In ecclesiastical effices the tynnpanum is often utilised for sculptured ornamentation.

Tynwald, the title given to the Farliament of the Isle of Man, which includes the Governor and Council (the Upper House), and the Mouse of Keya, the representative assembly. This practically con-

stitutes Home Rule, the acts passed by the Tynwald simply requiring the assent of the Sovereign.

Typewriting is a method of printing in type-letters by means of a machine called a typewriter, of which there are several kinds, including the Remington, Yost, Smith-Premier, Underwood, Oliver, Barlock, and others. Each machine is fitted with a keyboard, and others. Each machine is fitted with a keyboard, indicating the various letters of the alphabet, figures, punctuation marks, etc., and as these are struck by the finger of the operator the corresponding typesigns are impressed on the paper, the ink being consequence of the content of the

hases, and are also much used by literary men and others, representing a great saving of time as well as a ensuring a clearness of caligraphy not otherwise attainable. One of the most generally effective of modern labour-saving contrivances.

Typhoon, a cyclonic storm of great violence occurring in the autumn months in the China sets. It is similar in duration and destructive force to the greatest west rulein burgingers. reneral West Indian burricane.

general west indian nurricane.

Tyrollenne, a Tyroleau dance of a waltz character, often accompanied by a song or chorus.

Tyrollta, the name given to a hydrous arsenlate of copper—soft, flexible, and in colour a bluish-green.

Ubbonites, a sect of German Anabaptists, named after the founder, Ubbo Phillips, who in 1534 separated from the main sect by refusing to acknowledge Christ's kingdom as an earthly one.

acknowledge christ's knigton as an earthy on under the Ubiquarians, a small German sect, originated in 1500 by John Brentus, who held that the body of Christ was present everywhere.

Uckawallists, a Mennonite sect who believed that Judas and Pilate would be saved by reason of their ignorance, and taught the doctrine of Universalism.

Uhian, a light cavalry soldier armed with a lance Marshal Saxe had a corps of them; and in the Franco-German war of 1870 the Prussian Uhlans won fame.

Ukase, a Russian edict, issued by the Czar or his government, and having the force of regular laws. Uister Custom, a tenant-right uage prevailing in Uister, and recognising the right of a yearly tenant to remain in occupation so long as a fair rent is paid,

to dispose of his tenancy, and to obtain compensation if the landlord resumes possession for himself.

Ultramarine, a sky-blue pigment obtained from lasts lazuls, a stone found in Tibet, Persia, Siberia, lapis laxitit, a stone found in Thet, Persa, Sibera, and some other countries. A cheaper ultranarine is now produced by grinding and heating a maxture of clay, sulphur, carbonate of soda and resin.

Ultramontantem is the term applied to the views of Roman Catholics who desire that abounte authority in religious affairs should be vested in the

Pope, subordinate only to the Ecumenical Council.

Unber is of two kinds, raw and burnt. Both are used as pigments, the former being a dark brown and the latter a reddish-brown. It is made from

brown hemaitie and clay.

Unbrellas did not come into general use in England until the latter part of the 18th century. They were known to the ancients, however, by whom they were used both against sun and rain,

Uncials were a form of written characters used in times prior to the roth century; while smaller than capitals they were larger than the later minuscule. The term unical was a misapplication of St. Jerone's hierae muscales, "inch-high," letters.

"Uncle Tom's Cabin," a story published in 1822, setting forth in an intensely interesting from the

"Uncle Tom" a Cabin." a story published in râcz, setting forth in an intensely interesting form the horrors of the slave trade as they then existed in Amenca. Its author, Mrs. Harrart Beccher Stowe, achieved great fame by the story.

Unction, the act of anoming with oil, a symbol of consecration practised in the Roman Catholic, Greek, and other Churches, but not in the Protestans Extrems unction is the rite of anoming a dying person with holy oil. This function consists in anomining the eyes, ears, nostrils, mouth, the palms of the hands, and the soles of the feet.

Undulatory Theory is the theory which traces light to vibrations set up in an invisible medium termed the limitalierous ether, and therefrom trans-mitted and diffused to the permention of all space. Uncarned Increments is an increase in value of

mitted and diffused to the permeation of all space,

Unearned Inorement is an increase in value of
land, houses, etc., brought about by influences independent of the efforts or outlay of the owner.

Unicorn, a fabulous single-horned animal, the
monoceros of classic writers. In heraldry its form
is horse-like, with the tail of a lion and pointed single
horn growing out of the forehead. Introduced into
the British Royal Arms by James I., two unicorns
having figured in the Scottish Royal Arms.

Uniformity Act was passed in 1550, in the second
year of Elizabeth's reign, and prescribed the restoration of the English Prayer Book, ordering it to be
read in all churches, and imposing a penalty on those
who neglected to attend church. Both Roman
Catholics and Puritans suffered by this enactment.
A century later, in 1662, Charles II.'s Act of
Uniformity, commanding all clergymen to subscribe
unreservedly to the whole of the Prayer Book, led to
the defection of 2,000 divines, who preferred to give
up their benefices to going against their consciences.

Uniforms for soldiers were introduced by Louis
XIV. In 1665, but were not adopted in the British
military service until some years later.

Unionists, the name given to the Conservatives and
secucing I therals with one weed Mr. Cladstone's

military service until some years later.

Unionists, the name given to the Conservatives and seceding Liberals who opposed Mr. Gladstone's Home Kule Bill in 1886. The term is still continued as a general party application.

Union Jack, is a combination of two flags—the banner of St. George, white with a red cross, the original English flag, and the banner of Scotland, blue with a white diagonal cross. This combination was effected after the union with Scotland, and the term Jack is supposed to refer to James I. (Jacques). A further addition was made to the Union Jack after the union with left and in 1807, when the banner of St. Patrick, white with a diagonal red cross, was introduced.

Union of Great Britain and Ireland was

Union of Great Britain and Ireland was proposed in the Irish Parliament in January, 1799, but rejected by a majority of one, while in the English House of Commons the majority in favour of it was overwhelming. The measure was ultimately passed with adequate majorities by both Parliaments.

passed with adequate majorities by both Parliaments, and the union came into force on January 1, 1801, Union, Treaty of, was the treaty by which Scotland became formally united to England, the two countries being incorporated as the United Kingdom of Great Britain, the same Parliament to represent both, Scotland electing sixteen peers and forty-five members of the House of Commons. Uniformity of coms, weights, and measures was provided for, Scotlish trade laws and customs were assimilated to those of England, and as regarded religion and the practice of the law, Scotland was to continue as before. This Act was ratified on May 1, 1217.

JPH, a former British gold coin of the value of sox. issued in 1604 by James I Unitarianism is the doctrine which proclaims the impersonality of God, and demes the theory of the Trulty. As regards other matters of belief and doctrine Unitarians hold differing views, the older members of the sect accepting Christ as a Divine manifestation in a human life, and believing in the sacred character of the Scriptures and in the miracles; whereas the "Progressive" Unitarians only accept Christ as a specially good, wise and holy man, and reject the inspiration of the Bible, the miracles and the doctrine of atonement. If was not until after the Reformation that Unitarianism was not until after the Reformation that Unitarianism was not until after the Reformation that Unitarians, and developed to any particular extent in England. In the United States Unitarians are numerically strong and have produced some eminent preachers, such as Dr. Channing and Theodore Parker. In great Britain the Unitarians have at present 36 chaples or other places of worship, and about as many recognised ministers.

United Greeks are such members of the Greek Church as cling to the older Greek.
United Irishmen were an association of Trishmen

whose aim was to establish an Irish Republic. They were in league with French supporters and had six war frigates ready for action. The leader, Wolfe Tone, was captured, however, in October, 1798, and the movement was effectually crushed. Wolfe Tone committed suicide in prison.

Wolfe Tone committed suicide in prison.

"Iniversalists, a sect that arose in the grd
century, and was condemned by the Council of
Constantinople in 532. They held the doctrine of
the final salvation of all men. There are several
Churches of Universalists in America to-day, but
the sect has few followers in Britain.

Universities are institutions for providing higher education, with power to confer degrees on such members as pass certain prescribed educational standards. In England there are nin universities —Oxford and Cambridge, both founded before the —Oxford and Cambridge, both founded before the 18th century; London, 18th century; Liverpool, Leeds, Manchester, Durham, Sheffield, and Birmingham. Scotland has four—St. Andrews, Glasgow, Aberdeen, and Edinburgh; the first three having been founded in the 18th century, and that of Edinburgh in 1852. In Ireland there are three Universities—Dublin University (founded m 1801 art frinity College); the National University of Ireland established in 1908; and the Queen's University of Reland established in 1908. The University of Wales dates from 1893. The universities of France, Germany, and other countries are numerous, and many of them very ancient. The Bologna and Paris Universities were founded in the 18th century. Center of the United States are those of Yale and Harvard Universities were founded in the 18th century.

University Extension is a method which has been in operation for a number of years of extending been in operation for a number of years of extending the means of university teaching to young people who would otherwise be unable to avail themselves of university advantages. Under this scheme lectures are given and classes opened in the chief centres of population, and the higher education of the universities is thus brought within popular reach. Female as well as male students are admitted to these

courses.

Upas, the poisonous sap of certain trees growing in fava and the Malayan and Philippine Islands. The Java and the Malayan and Philippine Islands. The natives use the sap for arrow-poison. Strychnine is yielded by one of these trees, the Strychnos Ignatia. Urenus, the sacred serpent of the ancient Egyptians, always represented on the head-dresses of divinities and royal personages. It was the symbol of supreme power, and was in the form of an asp. Uralite, a mineral substance having the crystalline form of augite, but the physical properties of homblende. It is commonly regarded as a paramorph of the last named mineral.

the last named mineral.

from in the a pitch-black heavy mineral usually found in granite rocks and forming the chief source of uranium. It is also called pitch-blende, and occurs

of transma. It is also came a prenionente, and occurs sparingly in Cornwall.

Urantum, a metal discovered by Klaproth in 1789 in pitch-blende. It is of a dark colour and heavy, and is found in Cornwall, Saxony, and elsewhere. The oxides and salts of uranium are of importance, and are used for colouring glass and other purposes.

Uranite is an emerald-green ore of uranium, and the discovery of Radium was due to experiments with

uranium.

Uranus, the seventh of the major planets in distance from the sun, from which it is removed 2,800 millions of miles. It is nearly four times the diameter of the earth and has four satellites. Sir William Herschel discovered the planet in 1781.

Ursan Major, the mene given to a series of yalcanic rocks occurring in Shroyshire near Wroxeter, the site of the old Roman station of Uriconium.

Ursan Major, the Greater Bear, or "Charles's Wain," a constellation familiar to all observers because of the brilliance of the seven stars forming its outline. It never sets in these latitudes.

Ursan Minor, the Lesser Bear Congellation, has, like Ursa Major, seven prominent stars, of which the pole star is the brightest.

Usquabaugh is the old Cekic name for spirit, distilled originally from Darley. The name is still used

tilled originally from barley. The name is still used

in Scotland. Burns in Tann' Shanter, wrote, "Wi usquebae we'll face the devil."

Utilitariamism is a term that originated with the Italian philosopher Beccaria, and has for its aim "the greatest happiness of the greatest number." and insists that this should be the sole aim of all public action. Jeremy Bentham was the chief propounder of the philosophy, and in more recent times John Stuart Mill advocated it with much acceptance. Herbert Spencer's exposition of the theory represented a still higher development of it.

Utopia was the imaginary island of Sir Thomas More's ideal state, where the conditions of life, and government were perfect. The work, which was published in 1916, was the forerunner of a host of other books on similar lines. Swift, Voltaire, and, in our own time, Beliamy, Mallock, and others have ventured into the same field with more or less success. Ruskin styled Utoplanism "another of the devil's pet words."

Utraquist, a name given in Church history to the Calixtines, because in the 15th century, they partook of, or demanded, both elements in their celebration

of the Eucharist

of the hucharist.

Utrecht, Treaty of, was the famous treaty by which the War of the Spanish Succession was brought to a close in 1773. It was signed by the representatives of Great Britain and her allies and France, and resulted in a general adjustment of many old-standing international differences.

Uvarovite, an emerald-green variety of garnot. It contains chrominm sesquloxide, Named after Uvarov, the Russian statesman.

Uvalov, the Russian statesman.

Uvula-wort (or Throatwort), the nettle-leaved
Bell-flower (Campanula Trachelium), found plentifully in English copses, and given its popular name
because of the reputation it had of being of service
medicinally in the treatment of pains and swellings
in the throat in the throat.

Uzema, a Burman linear measure equal to about 12 English miles,

Yagrancy was the subject of stringent punishment under the old English laws. A vagabond on conviction was sentenced to be branded with a "V" viction was sentenced to be branded with a "V" and sent into slavery for two years by an ordinance of 1547, and whipping, setting in the stocks, and mutilating the ears were other penalties of this offence. The present Vagrant Act was passed in 1844. Walentine's Day, the 14th February, is a Roman-Catholic festival in celebration of St. Valentine, one of

Catholic festival in celebration of St. Valentine, one of the Christian marryrs of the 3rd century. He was so renowned for affection and benevolence that the custom arose of selecting valentines on his festival alox.

Valentinians were a sect of the and century, adherents of Valentine, a priest, who deserted his faith and proclaimed a doctrine in which good and goddesses were substituted for the Trinity.

Yalhalla, in Scandinavian mythology, is the special Paradise to which the souls of warriors slain in battle

Paradise to which the souls of warriors slain in battle were transported. The term is also generally used to designate a burial place of great men.

Palkyrla, the chosen haudmaidens of Odin, appointed to serve at the Valhalla banquets. Their most important office, however, according to the Norse mythology, was to ride through the air at a time of battle and point out the heroes who were to fall. It is one of these Valkyrla who is made the heroine of Wagner's opera "Die Walküre."

Paradise according to ancient superstition, was a server of the property of the p

Yampire, according to ancient superstition, was a spectre in human form, which rose from its grave in the night-time and preyed upon the living as they slept, sucking their blood, and then returning to the

grave

grave.

Yampire-Baks, a peculiar kind of bat commonly known as a "flying fox." These bats are found in South America, Asia, Africa, and the Malay Archipelago, and receive their name from the supposition that they live on the blood of animals.

Yanadium, a scarce metallic element found in iron ores and certain minerals and clays. It forms

oxides which develop saits of commercial value in dyeing and calico printing. Originally discovered by Seiström in 1890, it was found also in the copperbeds of Cheshire by Roscoe in 1895.

Wandals were a Teutonic race who ravaged Gau, Spain, and North Africa in the 5th century, and finally attacked the city of Rome, drawing down upon themselves universal opprobrium for their wanton destruction of beautiful objects and monuments.

Vanilla, a climbing orchid of tropical America, found also in Asia; the dired fruit of certain species furnishes the agreeable aromatic vanilla of commerce, so much due, the name given to the water-lizards or the Lacertuia order, and distinct from the true lizards in having scales arranged in rings across the body. They are inhabitants of Southern Asia.

Warnish is of two loading kinds: spirit varnish, made from resinous substances dissolved in spirit; and olivarnish, in whileth the dissolving agent is inseed oil and turpentine.

linseed oil and turpentine.

linseed oil and turpentine.

Wassa, a hollow vessel of a decorative character, with
or without handles, and of various shapes and designs.
The vases of the ancient Greeks were of great
beauty, and such as have been preserved are highly
valued. One of the finest examples of a GrecoRoman vase is the famous Portland Vase in the
British Museum. (See Portland Vase).

Wattean, the Payal residence at Rome, a famous
palace on the hill adjacent to St. Peter's. Its
museum is a rich treasure-house of literary and
artistic objects.

artistic objects.

Yauxhall Gardens were a famous London pleasure resort from the early part of the 18th to the middle of the 19th centuries. It was here that many great singers appeared from time to time, where the earliest halloon ascents in England were made, and where the displays of fireworks were on a scale or great magnitude for the period

great magnitude for the period

Yedas, the sacred writings of the ancient Hindoos,
comprising hymns, sacred formulas, and prayers.

Their origin is by no means clearly established.

Yegetarianism is the theory that vegetables are
the only proper food for human beings and afford all
the sustemance that is necessary for a healthy life.

A Vegetarian Society was founded in Lendon in

28 or old both is the metropolis and in numerous 1847, and both in the metropolis and in numerous

provincial towns vegetarian restaurants have been established with considerable success.

Yehmgerionte, a mediawal tribunal said to have been founded by Charlemagne in the 12th century. It dealt with cases in which the penalty of death was involved, and caused many persons of rank and distinction who were not favoured by the Government to be summatily arrected, convicted and put to death. The last of these courts was held in 1508, by which time the suppression of the tribunal had become a public necessity.

Yellum. (See Parchment.)

Yelvet, silk fabric that is woven with a fine pile on one side only. When the piece is made entirely of silk it is styled silk velvet; when cotton is mixed with the silk. It is cotton-velvet or velveteen.

the silk, it is cotton-velvet or velveteen.

Wentilation is a means adopted of obtaining fresh supplies of air in rooms and buildings. It is a science that has been much studied in recent years and has led to the adoption of methods of air renewal by which the public health has been greatly im-

Yentriloquism, the art of speaking in many voices and at apparent different distances, without seeming motion of the lips. The art was practised by the ancient Greeks and Romans, and was probably responsible for many supposed oracular utterances. Yenne, a legal term designating the place where an action is to be tried or from which a jury is to be supposed.

summoned.

Summoned.

Wenus, the planet second is order from the Sun, and distant from that orb 67,500,000 miles. It is 7,570 miles in diameter and rotates on its axis only once in 230 days. At wide intervals Venus passes between the earth and the sun, when what is called the "Transit of Venus "takes place. The last transit was in 1882. There will not be another until 2004.

Yerd-Antique, a peculiar kind of stone found chiefly in Italy, and to some extent quarried in Cornwall and certain parts of Scotland, Ireland, and the United States. It is a highly-ornamental stone, vari-coloured,

States. It is a tignity-originate to the state of a high politic.

Wardigrie, a compound formed by exposing copper to contact with vinegar in the air. There is blue verdigris and green verdigris, the latter containing.

Vardigrie has a containing to the containing the state of the containing the

verdigris and green verdigris, the latter containing the greater proportion of copper. Verdigris is used both as a mordant and as a pigment. Verdigris is used both as a mordant and as a pigment. Verguice, an acid liquid formerly much used in cooking. It is derived mostly from sour grapes, crab-apples, and other acid fruits. Vermillon, a pigment obtained from cinnabar, but generally made artificially from a mixture of one part of sulphur with four of mercury. It yields a bright red colcur.

bright ret colon.

Yerst, a Russan measure of length equal to about two-thirds of an English mile.

Yertebrate, the zoological division comprising such animals as have a backbone.

Westa, a minor planet discovered by Dr. Olbers of Bremen in 1807. It revolves round the Sun between

Mars and Jupiter.

Mars and Jupi

mumon to one on the point of death.

munion to one on the point of death, Vicar of Bray, the original of the ballad of that name, was Simon Alleyn, a Berkshire vicar, who was "twice a Papust and twice a Protestant," as Fuller asserts, serving under four monarchs, Henry VIII., Edward VI, Mary I, and Elizabeth.

Victoria Cross, an order of merit for conspicuous

valour, awarded to members of the Army and Navy, was established in 1850, since when there have been over 520 distributions made. The Cross carries with it a pension of Leo a year to non-commissioned officers and men with an extra £5 for every bar. Victoria Regia. a species of large water-lily. a native of South America, having leaves of a diameter

of 5 to 6 feet, the flower being about a foot in

diameter, white, with a rose-centre. Specimens are to be seen growing at Kew.

Yicuna, a large mammal of the camel family, found wild in the mountain regions of Bolivia and Chill. It is not domesticated like the Llama and Alpaca.

It is not domesticated like the Llama and Alpaca, but yields a wool which is made into dress fabrics.

Yienna Congress, lat at Vicuna from September, 1814 to June. 1815, and vettled the delimitation of the territories of the various European nations after the subsigation of Napoleon. Ceylon, Mauritius, Cape Colony, Helicoland, Malta, and part of Guisna were accorded to England: France was not permitted to hold more territory than she had possessed at the outbreak of the Revolution, in 1786; Austria took Northern Italy; Russa, Poland; and Prussa, part of Saxony and the Rhenish province.

Wikings, were Scandinavan sea-plunderers who

yikings, were Scandinavan sea-plunderers who from the 8th to the 10th centuries were the terrors of northern waters. They were traditionally supposed to be descendants of Norse Kings, and men of great

to be descendants of Norse Kings, and men of great physical prowess.

Pilisinage. (See Serfs and Slawery.)

Pinedar, is obtained by the fermentation of alcoholic liquids, induced by various processes. It is a dilute acetic acid. Vinegar has been used as a condiment from the days of the Romans, and is the active agent in the preparation of pickles and many sauces.

Piolin. a familiar stranged musical instrument, a smaller form of the more ancient viol. Instruments of the violan type have been in use from remote times, and the form as now played upon is practically the same as that of the roth century. The construction of the volin was in the century following brought to a point of refinement that has not since been equalled. The greatest of all violimakers was Stradivari of Cremons, whose violins to-day fetch immense prices. immense prices.

Notacelio, a large, stringed instrument, tuned an octave lower than the viola, and held head downwards by the performer between his blees while playing. One of the most effective of orchestral instruments, and a powerful medium of sole playing.

Yipar, a species of poisonous snake of which there is one example in Britain, the common viper or adder, measuring from a to 3 feet in length, and only found in very dry localities.

m very dry localities.

Tinginal, a keyed instrument of a clavichord type, fashionable in the 16th and 17th centuries, and said to have been played upon by Queen Elizabeth and Mary Queen of Scots.

Tirgo. The 6th content of the 18th content of th

wirth one of Scots.

Wirdo, the 6th constellation of the Zodiac, lying between Leo and Libra, It has seven prominent stars ranged in the form of the letter "Y." One of these stars is of the first magnitude, the other six being of the third magnitude.

Wiscount, a title of rank coming next below that of an Earl. The title originally stood for deputy-earl. The first English Viscount was Viscount Beaumont,

created in 140.

Wishna, one of the gods of the Hindoo Trinity; the supreme head, symbolised in the Vedas as the Sun. Yisigoths were an ofishoot of the Ostrogoths. They ratiocals were an ofishoot of the Ostrogoths. They invaded lially under Alaric in A.D. 400, and 10 years later acquired and occupied Rome. They were powerful up to the 6th and 7th centuries, raling in Spain, France and Italy in turn, until in 711 the Saracens overthrew them, and slew their last king, Roderic.

Saracans overcurew team, and siew their last king, Roderic.

Witriol, the old name of sulphul. Sulphate of copper forms blue vitriol; sulphate of iron, green vitriol; and sulphate of zinc, white vitriol. Among other vitriols are nickel vitriol, are vitriol, and blue vitriol. Wiwandere, a female camp follower informally attached to French military regiments, and acting as vendor of liquors, fruits, etc.

Wirsection, the dissection for scientific purposes of iving animals. The practice has been strongly opposed by liuutanitarians, and certain Acts have been passed for restricting vivisection to authorised and qualified persons within prescribed limits.

Wisley, a chief Turkish minister in the olden days. The first Grand Vizier to the Ottoman Porte was appointed in 1386, and although the office was formally abolished in 1838, it has since been occasionally revived.

sionally revived.

Wolapuk, a commercial language intended for universal use, formulated by Johann M. Schleyer

Yolcanoes are mountains or mounds beneath which, in the depths of the earth, there is a continual fire that at intervals throws up flame, molten rock (lava), ashes, etc. The most active volcances of modern times have been those of Ætna, Vesuvius and Stromboli, in Italy, Hekla in Icoland; and Mont Pelée in Martinique. The last named was in violent cruption in 700, when the chief town of St. Pierre was completely destroyed, and many lives were

lost.

Yole, a small rodent represented in Britain by three species, the best known being the Short-tailed Field Mouse. There are in all some 50 species, distributed over nearly all parts of the world.

Yolk, the electro-motive force unit, named after yolta, and defined and adopted since 1893 in terms

of the ohm and the ampere.

Volunteers were first raised in England during the American War in 1728, and in 1793-04, when a French invasion was feared, a considerable Volunteer force was organised. The Volunteers at that time numwas organised. The Volunteers at that time numbered over 400,000. Another agitation in 8569 concerning a probable French invasion caused the fermation of the Volunteer force. The enrolled strength of the Volunteer organisation in 1870 was 193,693; and in 1901 it reached it's highest point, 388,476. In 1807 the entire number of Volunteers was 257,918. The force was reformed as the Terratorial Force in 700. See Territorials. Walcanita (chonite), the dark form of india-rubber, capable of being vulcanised at a high temperature. It is used as an electrical insulator, and for many

commercial purposes, such as the manufacture of combs, plano keys, etc. Yulgate, a term used to designate the Latin version of the Scriptures sanctioned by the Council of Trent

Yulpine Phalanger, an Australian marsupial mammal, resembling a small fox, and called also the Brush-tailed Opossum.

Brush-tailed Opossum. Yulture, a famous bird of prey of two distinctive groups; that of the Old World, which has the nostrils divided by a mass of bone, and the New World vulture, which has no such division. Vultures are the great scavengers of tropical regions. The European species are the Griffon Vulture and the Egyptian Vulture, which, however, have seldom been known to visit England. Vultures are without feathers on the head and neck.

Wading Birds, an order of long-legged birds, including the stork, flamingo, heron, crane, etc., which frequent marshes and shallow waters, and are

including the stork, famingo, heron, crane, etc., which frequent marshes and shallow waters, and are able to stand in the water to watch for prey.

**Magram, Battle Of, was fought on the 5th and 6th July, 1800, when Napoleon completely defeated the Austrians, leading to the signing of a treaty of Peace, by which Austria relinquisited all her seacoast to France, and Joseph Bonaparte was acknowledged King of Spain.

**Wagtail, a familiar long-tailed small bird, of which four species are British, the Ped, Grey, Yellow, and White Wagtails, while the Blue-headed Wagtail also occasionally makes his appearance. The species frequents flat and marshy country, and one variety is called "Peggy Dishwasher." Wagtails nest in ruts, and are bold and active of habit.

**Wanabase were followers of Abd-el-Wahab, an Arab reformer who advocated complete obedience to the Koran, and attracted numerous fanatical supporters. They were at one time powerful enough to rule an Arabian territory, but were subdued by Ibrahim Pasha in 1818.

Ibrahim Pasha in 1818.

by affa, alegal term applied to stolen goods that have been thrown away in flight. They are liable to be forfeited to the Crown, but will be given up to the person robbed if it be shown that he has taken adequate steps to have the thief arrested.

Vaite, the night minstrels who make music at Christmas in the open, a remnant of the old-time minstrels attached to Courts and feudal dwellings

Walkes were originally parish festivals in celebration of the patron saint's day and the dedication of the church. Regulated by law in 1536, they gradually fell into desuetude, or became divorced from their former significance.

walcheren Expedition was undertaken under the command of the Earl of Chatham, heading 40,000 land forces, and Sir Richard Strachan, with a fleet of 33 ships of the line and 200 smaller vessels, in July, 2809, its object being to capture Walcheren, then in the possession of the French. So much time was wasted, however, by Chatham on the way, a full month being spent in Flushing, that the enterty had ample time to defend Antweep, the ultimate object of the expedition, and when at last the British forces were landed on Walcheren Island all chance of success was gone, and the place was evacuated, Chatham leaving behind a garrison of 15,000 men, 7,000 of whom perished from malaris, and 3,500 were permaneatly incapacitated. The whole project ended in diasster and Chatham was compelled to resign his post. Waldenzes, the name given to a settlement of

and Chatham was compelled to resign his post. Waldenses, the name given to a settlement of Christians under the leadership of Peter de Waldo, of Lyons, in the 24th century. They attracted much attention by the persecutions to which they were sub-jected. They were the settled in Piedmont, and continued to live there in spite of every oposition. Later, both Charles I, and Cromwell interceded and obtained for them increased toleration. The Waldenses are now a somewhat numerous sect, having over fifty places of worship

in Pledmont and a membership of over 15,000.
They have had full freedom of worship since 1848.
Wall of Chima (The Great), begun in 214 B.C.
and intended as a barrier against invasion. It is It is

and intended as a carrier agams; invasion. It inearly 1,500 miles in length, stretching along the north-western boundary of the country, and varying in height and thickness, being the strongest in the neighbourhood of Peking.

Walloons were French Protestants inhabiting certain parts of France and Belgrium, and many of the country in 1555 as refugees. They established themselves at Sandwich, and certain parts of the eastern counties, and aided the

development of local industries.

Walpurgis Night, the night before the 1st of May when whiches and creatures of evil are supposed to have liberty to roam. Named after St. Walpurgs, an English nun, who went on a mission to Germany in the 6th century. There is a tamous Walpurgis night scene in Gottle's Faux.

Walrus, a large marine mammal having in the upper jaw two large curved tusks, which average in length from ten to thirteen feet. It lives on fish, and

length from ten to thirteen teet. It is uses on nsn, and inhalits the North Prolar regions.

Walks, a popular round dance, danced in couples, introduced into England from the Continent in 1813.

Wanderoo Monkey, a bearded monkey with a tuffed tail, found on the Malabar Coast, and often called the "hon-tailed monkey."

Wapentake, the ancient name given in the northern nties to territorial divisions corresponding to the

Hundreds of southern counties,

Wapinschaw, an ancient Scottish custom of as-sembling the people for the purpose of testing their capacity for bearing arms and their readiness to

Wapiti, a large North American deer with great brown-tined horns, often, but erroneously, styled the

Elk or Grey Moose

ELE OF Grey MOOSE.

Warbler, a small, lively bird famed for its song, and represented in Britain by over 20 species, including the nightingale, the red breast, the willow-wren, etc. Wardmotes are annual meetings of the inhabitants

Wardinotes are annual meetings of the inhabitants of London wards, at which they elect their Common Councilmen. Their meetings date from 1986.

War Expenditure. Russa's weekly expenditure of £1,097,090 towards the close of the war with Japan was by no mean; extraordinary. Our own war in South Africa, the bill for which totalled the huge sum of £21,948,000, worked out at £1,500,000 at week. The total cost of the Crimean War was about £313,000,000; of this Russia paid £12,000,000, France £93,000,000; of the Russia paid £12,000,000, France £900,000, and Great Britain £78,000.

Russia £1,400,000, France £900,000, and Great Britain £100,000.

Russia £1,400,000, France £900,000, and Great Britain £100,000. or just under £1,600,000 a week. France, however, has had to foot the heaviest weekly war bill on record, the total cost of her terrible conflict with record, the total cost of her terrible conflict with Germany being £3f.0.00,000, or over £7,0.00,000 a week. The Napoleonic wars which ended at Waterloo were comparatively cheap for France, seeing that the total bill only amounted to £325,000,000, while that of Great Britain, including the financing of many little Powers in their struggle against the Emperor, amounted to £32,000,000.

against the Emperor, amounted to £821,000,000.

Wars of the Roses. (See Roses, Wars of.)

Wars-Snake, a curious but harmless viviperous screpent having warty scales, numerous in certain parts of India. One species is aquatic.

Wasp, the name of a well-known order of insects which live in communities of males, females, and workers, much the same as bees. The female wasp and assister have a magnetic start.

workers, much the same as bees. The female wasp and neuters have a venomous sting.

Watch. (See Poiles.)

Watches. (See Horology.)

Watches. (See Horology.)

Watches and aquatic rabits, and hornless.

Water Flea, a small crustacean provided with several pairs of legs, carrying rils which enable them to swim rapidly to and fro on the surface of the water. They are only found in fresh water.

Water Frame, the name given to the spinning

frame invented by Arkwright, because of its being driven be water-power. In Lancashire, where it was most used, it was known as the "throstle."

most used, it was known as the "throstle."

Water-Gas is an illuminating gas, and also in its
non-luminous form is used as a heating gas. It is
obtained by means of a specialty constructed furnace
into which steam is admitted, and passes upward
through the fire and into a regenerator, where it
becomes decomposed. As the steam passes through
the furnace it is charged with either coal dust or
crude naphtha, which process induces chemical
reaction, and a fixed gas is the result.

Waterlander, a sect established in Holland as an
ofishoot of the Mannonites. They were more
tolerant than the original sect, and did not regard
the Bible as necessary to salvation. For a time they

the libbs as necessary to salvation. For a time they were of great influence, but ultimately they became reconciled with their opponents, with whom they are

now united.

now unrecu. Waterloo, Battle of, was fought on Sunday, June 18th, 18tc. Napoleon had 71.947 men and 246 guns; while Wellington's army, at the beginning of the battle, comprised 67.66° men and 156 guns. The the battle, comprised 69,60° men and 150 guns. In statle raged from to in the morning until 5 in the afternoon with alternating success, Wellington gradually gaming the mastery, however, and when the Prussian forces under Illiücher joined him late in the afternoon the whole allied army moved forward and Napoleon's defeat was rendered complete. The total losses of the Allied Army in killed, wounded and missing were 22,076. The French lost over 20,000 men.

30,000 men.

Waterloo Bridge, crossing the Thames, was built by Rennie, and opened in 1817. It has nine arches, each of roo feet span, is built of grante, and has a length (including approaches) of 2,450 feet.

Waterproofing, a method of rendering cloths capable of resisting water, an art which has been greatly developed in recent years. The first article of the kind was what is called "Mackintosh," made mainly of india-nubber, but later processes mingle the waterproofing with the threads of the fabric by the introduction of additional substances.

Water-Spuider. an interesting little animal which

Water-Bpider, an interesting little animal which spins a sac of silk on a water-plant, which it uses as a sort of diving bell. From this it obtains bubbles or air, one at a time. Thus the spider is enabled to remain below the surface a considerable time.

Yearn's Delow the surface a considerable time.

Water-Roout, a column of water drawn to a considerable height in the air and descending to earth with a rapid whirling motion. The phenomenon only lasts a few mnutes, and frequently a number of water-spouts form and discharge either simultaneously or in rapid succession. Water-spouts only occur over the sea

occur over the sea.

Watling Strast, the name of the old Roman road which ran from Dover, by way of Canterbury, Rochester, London, and Bedford, to Chester.

Wax, the name applied to certain plant substances or mixtures, and used for various purposes, such as the making of wax candles, bleaching, and making artificial flowers, anatomical models, etc., also in pharmacy for blending in the composition of plasters, olitiment, etc. The best known natural wax is beenwax, and there are others, such as spermaceti, obtained from the sperm whale, and Chinese wax, which is a ceretyl cerotate.

obtained from the sperm whale, and Chinese wax, which is a ceretyl cerotate.

Waxbill, a small Oriental and African bird of the Ploceide family, with wax-like bill, and beautifully variegated plumage. The Java sparrow, the South African Grosbeak, and the blue-breasted wax-bill are attractive, and often find thot way into cages.

Wayz-Goose, the name generally given to a festive gathering of people employed in printing and other works, so called from the fact that in earlier times a gross was the principal dish of the feast.

goose was the principal dish of the feast.

Weasel, a small carnivorous mammal common is
Britain, of nocturnel habits, living on small rodents,

brids, or incusing incusions in the Board of Meather Office is now a branch of the Board of Agriculture and Fisheries. In the United States (200,000 a year is spent on this kind of work, and the advice given to fruit furners and cotton planters abundantly compensates for the outlay. The British

Weather Office staff are always glad to help anyone

Weather Office staff are always glad to help anyone to information for a special purpose.

Weather Predictions by Animals are more common than is perhaps believed by town dwellers. Cats are credited with washing right over their ears when rain is approaching. Cats also become resties and wander atmically about the house when a thunderstorm is brewing. The braying of a donkey is said to be a sign of coming rain. Before winter sets in, moles prepare a sort of basin in which they deposit a quantity of earthworms. When these basins are fewer in number than usual the mole-activers state that the winter is sure to be mild. deposit a quantity of earthworms. When these basins are fewer in number than usual the molecatchers state that the winter is sure to be mild. The field-mouse has been noticed carefully to cover up its hole prior to the setting in of cold and snow. Sheep in mountainous districts will change their feeding ground to the lee side of the hills before the arrival of severe gales and rain. Bees are very sensitive to atmospheric changes. When they return to the hive, and do not come out again for a time, rain is indicated. Working bees, when collecting honey, are said to be so afraid of bud weather this if a cloud obscures the sun they will hurry home. If domestic geese are seen to fly without any palpable reason, rain is to be expected. If ducks are noticed going out on to the grass fields in the daytime in search of snalls, a shower may usually be looked for. When it is likely to be wet, garden-spiders spin only short threads. When the shrill voice of the peacock is heard, a change of weather is probable. If the swallow files high it is a sign of fine weather, but when it is near the ground rain is to be expected. The movements of rooks are much watched by some agriculturists as an index to the coming weather. The movements of rooks are much watched by some agriculturists as an index to the coming weather. If the rooks are such settling noisily upon trees and flying hither and thither instead of going straight away, a wet day is probable. If they are flying low in the winter, going and returning silently, early and late, before surrise and after sunset, a sharp frost may be looked for. Fish are extremely sensitive to the weather, as the angler well know, many species declining to feed when a change is in progress. Weaver Bird, a small bird inhabiting Southern Asia and Australia, remarkable for its habit of building a nest formed of blades of grass dexterously interwoven and suspended from the boughs of trees.

interwoven and suspended from the boughs of trees.

Weawing has been practised since before any times of which we have record. The Egyptians credit the invention to 1sis, the crecians to Minerva. The man principle of the weaving loom is the same to-day as it was thousands of years ago; a warp extendiourthwise through the loom, the thread's being held in separate regular order by being passed through attending threads of the warp by means of a shuttle which holds the weft. Thus the fabric is built up. Weaving was done by hand up to the early part of the 19th century, when Cartwright's steam-power loom was introduced, and is now in universal use. The Jacquard loom for weaving

early part of the 19th century, when Cartwright's steam-power loom was introduced, and is now in universal use. The Jacquard loom for weaving figured designs dates from 1801.

Wedding Days, or anniversaries observed, in addition to the original wedding day, are as follows: Silver Wedding Day, commemorates the 25th year of married life; Colden Wedding Day, 50 years; Diamond Wedding, 60 years.

Diamond Wedding, 60 years.

Wednesday, the 4th day of the week, derived its nume from Woden or Odin, the Norse god of war.

Week. (See Calendar.)

Weeks, (See Calendar.)

Weever, a species of sear-sishes which possess the power of inflicting stings by means of the dorsal fin. The British species are the Great Weever, which is less than half that size.

Weever, which is less than half that size.

Weever, which is less than half that size of a very destructive kind. They abound in all purts of the world, and are voracieus feeders on leaves, seeds and grain. Some of the tropical species possess brilliant plumage.

Weights and Measures are said to have been introduced by Pheldon, Tyrant of Argos, in 858 B.C.

Weights were at first calculated from grains of wheat, the lowest still called a grain. The basis of ancient measures was the natural proportions of the human body, the digit or breadth of the middle part of the first joint of the foreinger being taken as the lowest unit. Under Richard I., standards of weights and measures had to be provided for the whole kingdom by the sheriffs of London.

Wallington College. (See Public Schools.)
Wanlock Group, a geological term referring to a sub-group of the Upper Silurian series, more than 4,000 feet in thickness, and consisting of linestone

Ware wolf, according to an Old World superstition, was a human being changed into a wolf, but preserving its original intelligence. Numerous men charged in the Middle Ages with crimes were deemed of the Werewolf category. The superstition prevailed of the werework category. The superstation prevaled in many parts of Europe to a comparatively recent time, and some such belief is prevalent amongst most savage races at the present day.

Western Church, the name given in ecclesiastical history to the Roman Catholic Church, as distinct from the Eastern or Greek Church.

from the Eastern or Greek Church.

Westminster Abbey stands on the site of an oldchurch and religious establishment of the 7th
century. It was rebuilt under Edward the Confessor, and again under Henry III., and important
additions were made by Edward II., Edward III.,
Richard III., Richard III., and Henry VII., the
latter erecting the beautiful eastern chape in the
Decorated Style which bears his name. The
western towers and front were rebuilt by Wren in
the with century.

western towers and front were rebuilt by Wren in the 18th century.

Westminster Hall, adjoining the Houses of Parlament, was built as a Banqueting Hall by William Rufus, and many courtly festivals were held there in succeeding centuries. King John established the Law Courts there. It now forms a gigantic hallway, leading to the Houses of Parliament, but was once more used as a Banqueting Hall in August, rogs, when the then Primel Minister, Mr. Ballour, entertained the Officers of the French Fleet there.

Fleet there

Whale, a large marine animal averaging, when full grown, from 40 to 6 feet long, the head comprising nearly one-third of the whole length. It inhabits the Arctic Ocean, and is much hunted for the sake of its blubber, a thick mass of fat, underlying its skin to a thickness of from 8 to 16 inches. This blubber yields the whale oil of commerce, and the whalebone is derived from the baleen plates forming the structural portion of the mouth. The whale fisheries form an important industry, Dundee being the headquarters of the whale-fishing feet. About half a ton of whalebone is obtained from one whale, which is worth between \$2,000 to \$2,000 per ton. (See Rorqual and Sperm Whale.)

Wheat, the name of several varieties of plants of the Grass family, yielding a fruit or grain which, in its crushed state, is termed flour, and from which is obtained our most valuable food staple. Over five Whale, a large marine animal averaging, when full

crushed state, is terined flour, and from which is obtained our most valuable food staple. Over five and a-half million tons of wheat grain is imported into this country. There are less than two million acres under wheat in Great Britain. Of the wheat consumed annually in this country (about 33,500,000 quarters), only 7,500,000 quarters are grown at home. It is calculated, however, that Canada's capacity for wheat production is so vast that we could look to that colony alone to supply us all use want.

Whelk, a molluscous univalive with a spiral shell, and comprising some 20 species. The Common Whelk is abundant on the British coasts, and is captured in large quantities and sold as food.

abundant on the British coasts, and is captured in large quantities and sold as food,
Whidah Bird, the widow-bird, of West and Equatorial Africa, a beautiful genus including the "Mourning Widows" and "Paradise Widow-birds" of the dealers. To a body of about 5 inches long, the males of some of the species have a tall of something like 11 inches during the breeding season. The plumage is showy and the song pleasing.
Whiga, a political name which came into use in the time of Charles II., and designated the progressive

party down to the passing of the Reform Bill of 1832-when it was superseded by the term Liberal. Whimbrel, a bird of the Curiew family, more com-mon in Scotland than in England.

mon in Scottant than in England.

Whinchet, a small migratory bird, which is seen in
Britain from April till September, and has a bright
brown plumage, spotted with darker brown. The
male has a beautiful song.

male has a beautiful soug.

Whip, the name commonly given to the Patronage Secretary of the Treasury, whose duty it is to keep the supporters of the Government together for important Parliamentary divisions. Each party has its own chief Whip, with assistants.

Whippool, a circling current of water often of great power, capable of drawing into its centre and submerging small vessels. The most famous whilpool is the maelstrom on the Norwegian coast.

Whirl wind, a sudden circular rush of opposing winds,

which often causes much damage

which otten causes much cantage.

Whikky, an ardent spirat distilled from malt or other grain, and containing a large percentage of alcohol. It has a greater consumption than any other spirit, and is of many kinds, Scotch and Irish whiskies being chiefly consumed in this country, and being of pot still or patents till production, or a hend of the two. American whiskies are mostly distilled from Indian control results.

of the two, American whiskles are mostly distilled from Indian corn or rye.
Whistler, a kind of marmot found in the mountains of Northern and Western America.
White Ant. (See Termite.)
Whitabot. (See Herring.)
Whitabotys, an insurrectionary I ish body who gave great trouble to the authorities in the latter part of the 18th century and the early part of the 19th. They derived their name from their custom of wearing a linen garment over their coats. Several of their ring-

linen garment over their coats. Several of their ring-leaders were executed.
White Cross League, a missionary association working in the principal towns and cantoninents of India. The Bisliop of Lahore is president.
White Elephant, a term in common use to designate a gift that causes the recipient more trouble or cost than it is worth; derived from an old-time custom of the Kings of Slam who presented a white elephant to a courtier it was desired to ruin.
Whitehall, erected within sight of Westminster Abbey and Palace in the 13th century, was the residence of the Archbishops of York until Henry VIII. took pressession of it in 1350. Thenceforward to 1697, when it was burned down, it continued to be the favourite town residence of royalty, and to the to 1697, when it was burned down, it continued to be the favourite town residence of royalty, and to the Stuarts especially it was a great centre of court restivities. In those days, with its grounds, it extended from the Strand to the river. The only portion of Whitelall now standing is the Banqueting Hall built by Inigo Jones, on a scaffold projected from the front of which Charles I. was beheaded. White House, the name of the official residence at Washington of the President of the United States Whitelances, a familiar bird of the wardler family, commonly seen in British hedgerows in the summer time

summer time

Whiting, a well-known sea-fish of the cod family,
very plentiful around our coasts, much used as food,
and averaging from 1 to 16 inches in length.

Whitsuntide, the festival celebrating the descent
of the Holy Ghost. It is a movable feast, always
occurring seven weeks after Easter.

Widgeon, a kind of Duck common in Northern
Europe, and breeding to some extent in Scotland.
The male is of somewhat brilliant colours, with interminglings of black, red, and white.

Wild Cattle existed in our dense forests for some
time after the Norman Conquest; Fitzstephen
mentions that forest bulls were to be found around summer time

time after the Norman Conquest; Fitzstephen mentions that forest bulls were to be found around London, and Walbran, in his Memorials of the Abbry of St. Mary of Fountaints, states that "fierce wild cattle" were to be found in Knaresborough Forest. Descendants of these fierce animals are said to exist now in a few famous herds in a semi-domesticated state. The most famous of these are the Chillingham herd of white cattle of the Earl of Tankarville, and Earl Ferrer's Chartley Park herd. Wild Sheep still exist to St. Küda, but nowhere

else in Great Britain. In the 18th century the proprietor of St. Kilda was entitled to one out of every seven sheep born on the main island. These were carried to one of the smaller islets, where they were allowed to run wild

were allowed to run wild Will, a written document signed by a person containing directions as to the disposition of his property or possessions after his death. The person making a will must be of full age, and the will must be signed in the presence of two witnesses, who must also sign their names to the document in the testator's presence.
Willow, a waterside-lowing tree of the gonus Saliz, to which the osiers belong. The Winte Willow makes the best crucket-bat blades, and its wood is useful in carpentry also: while the bark of nearly all the species is of considerable commercial importance, especially for Lannery purposes.

species is of considerable commercial importance, especially for tannery purposes.

Wimple, an antique outdoor covering for the nock, chin, and sides of the face, of silk or linen, worn by women in Anglo-Saxon and Norman days: and still retained as a Conventual dress for unus in some places. It was bound on the forehead of females of quality by a golden and jewelled fillet.

Wincey, a fabric sometimes woven entirely of wool, but more commonly of wool and cotton. Also sometimes called linsey-wolsey.

times called linsey-wolsey.

Wind, air set in motion by special atmospheric con-Vind, air set in motion by special annospheric conditions, is of various degrees, from a slight rustling breeze to a hurricane. Winds are constant, as in trade winds or anti-trade winds; periodic, as in monsoons and other wind-visitations occurring according to influences of season; cyclonic and anti-cyclonic, to influences of season; cyclonic and anti-cyclonic, when their motion is spral; wherebruist, hurricass and tornador, when high temperature and great density induce extreme agration. Ordinarily, a wind is named from the point from which it blows. The stream, the mistral, and the simoom are local forms of winds of great velocity. A bizzara's is a biting blast of icy temperature.

Windmills were in use in the East in ancient times, but were not much seen in Europe before the 13th century. Wind sawmills were invented by a Dutch-

but were not much seen in Europe before the 18th century. Wind sawmils were invented by a Dutchman in the 19th century, and one was erected near the Straid in London in 1633. Great improvements have been made in these infils in recent years, especially in the United States, where, by the application of the wind shaft principle, much space is saved and the nills can be used for pumping, grinding, and other purposes.

Windows, originally apertures for the admission of the wind into dwellings, began to be made of glass and used only for the admission of light in very early times. There is evidence of glass windows having been used at Pompeli, but they did not become common in England before the 12th century. A window tax was imposed in 1695, and again at later dates for special revenue purposes. As late as 1850, the sum of £1,82,684 was obtained from this tax. It was repealed in 1851.

Windsor Castle, the famous British royal residence on the banks of the Thames, as it now stands, was mainly built by Henry III., though a 70yal residence on the banks of the Thames, as it now stands, was mainly built by Henry III., though a 70yal residence had existed there from the time of the Conqueror. Additions were made by Menry VIII., Elizabeth, and Charles II. Windsor Park and Forest comprise over 13,000 acres.

over 13,000 acres.

Wine, the fermented juice of the grape, to which alcohol and other matters are added. The variaties alcohol and other matters are added. The variaties of wine are innumerable, each obtaining its distinctive character from the kind and quality of the grapes of which it is made, the locality in which its produced, or the amount of alcohol it contains. Wines are "sparkling," as champaene, due to their being bottled before fermentation is completed; or "still," that is, non-effervescent. Alcohol is present in ports and sherries to the extent of from x6 to x9 per cent.: in lighter wines from x to to per cent. France, Germany, Spain, Portugal, Italy, Greece, and Austria-Hungary are all wine-producing countries; and the United States, Australia, and South Africa have also to be reckoned with in this connection, their wines improving in quality year by year.

by means of powerful machinery which draws the heated metal through a series of holes of gradually diminishing size. The first wire mill in England was et up at Mortlake in 1652. Enormous quantities of wire, of differing grades and sizes, are now used, ranging from a thickness difficult to bend to the freet thread.

Tischeraft, was generally believed in all through the Middle Ages, and thousands of people were put to death as witches. In England the laws against to death as whiches. In England the laws against whicheraft existed down to ry36. According to one authority, "the judicial manufers for whicheraft management of the last executions for whicheraft in England were in 1916, when a Mrs. Hicks and her daughter aged hime were

Mrs. Hicks and monged at Huntingdon, and the Angle Saxons, "the Council of the Angle Saxons," the Council of the Council of the Angle Saxons, "the Council of the Council of the Angle Saxons,"

hanged at Huntingdon.

"itenagemeet, the name given to the Great
Council of the Angle-Saxons," the Council of the
Wise Men," and composed of the leading nobility.

"oad, a plant that in olden times was largely used in
England for the blue-dye obtained from it. It is a
hamnial plant, and is still cultivated in some parts.

"oif-Fieh, a voracious sea-fish living largely on
crustaceans, which its strong teeth enable it easily to
crush. It is also called the cat-fish.

"ollywine. a species of wolf inhabiting the more

Wolverine, a species of wolf inhabiting the more northerly parts of the United States, and somewhat resembling the Polar bear in shape and structure, though of a dark colour.

though of a dark colour,

**Colves, well-known carnivorous animals still found
in many parts of Europe, but not existing in Britan
since the middle of the 17th century.

**Codoock, a game-bird greatly valued for its fesh,
but not very abundant at present in Britain. It is of
the Snipe family, and winters with us. It is one of
the birds protected by the Game Laws. The parent
birds carry their young to and from the feeding spots.

**Toda-Louss.a n angue of wide application given to

Wood-Louse, a name of wide application given to any terrestrial isopod of the Oniscide family. They have segmented bodies and numerous legs, and feed

any terrestrial isopod of the Oniscide family. They have segmented bodies and numerous legs, and feed sanotity on decaying matter, animal and vegetable. Woodpecker, a familier tree-climbing bird, of which three species are found in Britain. It builds in hollows of trees, and feeds on insects which it obtains from the trunks of trees by tapping them, for which purpose it has a wedge-shaped bill and a protrusile tongue. There are some 250 species. Wool has been largely grown and used in the manufacture of cloth in England from times anterior to the Roman invasion. It is grown on the backs of abeep, and is of various kinds, according to the breed of sheep from which it is derived. Wool differs from hair in that it has 4 wavy, serratured fibre, its curl being a notable characteristic, whereas hair has a smooth surface comparatively free from serratures. Long wools are mostly used for the manufacture of worsted goods, and short wools for woollen cloths, though the improvements in machinery in recent years have enabled manufacturers to utilise short wools to a great extent for dress fabrics as well as for woollens. The finest wools are obtained from the fleece of the Spanish merino sheep. Australia and New Zealand are now the greatest wool producing countries.

Woolsmalk, the name given to the seat occupied by the Lord Chancellor in the House of Lords. At the time when it was first used, in the religio of Edward III.

the Lord Chancellor in the House of Lords. At the time when it was first used, in the reign of Edward III. wool was the great staple commodity of the country. Bronestae, Battle of, was fought on September gd, regr, between Cromwell and his forces and the Scots army under Charles Stuart (afterwards Charles II.), when the latter was defeated. Bronestae University of the Charles Stuart (afterwards Charles II.), when the latter was defeated. Bronestae the countries was the countries of the countries of the countries, the following comparisons are obtained. Occupations are divided into three classes, namely, assiculture, horticulture and forestry: manufactures egriculture, horticulture and forestry; manufactures agraculture, norticulture and torestry; manufactures and mining; and connierce and transportation. In the last-named class Holland leads with a percentage of 172, while America's is 16's. Eagland's is only 13. Germany is 10'6, and France 94. In manufactures and mining America has a comparatively low rank, her percentage being only 24'T. Scotland leads all with 60'4, followed closely by England and Wales with 98'3. Germany has 37'4 and France 33'6 Belgium, Holland and Switzerland also, of course, rank high, each of them having more than one-third of its working population thus engaged. In the first class, of agricultural and allied occupations, America has a percentage of 35'9, while Germany has 37'5, France 44'3, Austria and Hungary respectively 58'2 and 58'6, Italy 59'4, Holland 30'7, Bolgum 21'1, Scotland 12, and England and Wales only 8. Grantest City. The Jondon the

and Wales only 8.

World's Greatest City, The,—London, the capital of the British Empire, is the largest, wealthlest and most populous city of the world. It covers an area of 692 sq. milos—inclusive of what is legitimately called "Greater London"—has a population of 7.252.653, consuming over 225.000,000 gallons of water per day, admitting within its ports goods to the annual value of £167.568.524, and exporting £93.611.393 worth, enjoying mearly eight sq. miles of parks and open spaces, having 609 acres of cemeteries, and being protected by a force of 22.737 police. Creater London's mean rateable value, for Metropolitan Police muroses, is roundly 65 millions a year. It is London's mean rateable value, for Metropolitan Police purposes, is roundly 56 millions a year. It is governed, as to the City proper, by the Lord Mayor and Corporation: as to the whole of London, for and Corporation; as to the whole it had a control administrative purposes, by the London County Council; and as to smaller local affairs, by the various borough councils, of which it has 28. It the various borough councils, of which it has 28. It returns or representatives to Parliament. It has 77 livery companies owning property of the aggregate value of £15,000,000, with a total annual lincome of nearly £800,000. It is estimated that 7,200,000 per-ous enter the central portion of the city every day, 91,000 of whom—as well as 1,200 ovehicles—pass along Cheapside; while over 15,000 pass through Hollion. There is an average of 3th births and 66 deaths per day in London. Within the City proper—the portion presided over by the Lord Mayor and Corporation—there are £8 miles of crowded streets, with a day population of 350,000, and a night population of 26,000. The number of foreigners permanently rasident in London is over 200,000. In the hospitule and dispensaries of London 2,280,578 patients are treated every year, involving a total ordinary expenditure of about £800,000. There are 1,006 elementary schools in London, with accommodation for over 800,000 children. The various relivently 300,000 and out of 100 company superior of the various relivently 300,000 and out of 100 company superior of 100 company superi every day 790,000 passengers; the omnibuses, now mainly of the motor class, carry another 380,000 passengers; while the different tramways—those of the County Council and the conchined services of the various private companies running services of the various private companies running services—are responsible for fully half-a-million more. These figures do not take account of short Journey bus, tram and "tube" traffic, but simply give an idea of the number of workers and business men who proceed daily from the subtribe to Central London. proceed daily from the suburbs to Central London, proceed daily from the suburbs to Central London has about 11,000 cabs, including 19,000 unbrellas) are left in public carriages every year. There are more people in London streets between six and seven in the evening than at any other thmesher 19,28 workers are setting off, on the average, from their employment for home. There are soo,000 females working within the London area under the Factory Acts' cognisance, while there are 300,000 one-room dwellers, and about 2,000 people who are homeless. The earning capacity of the workers of London in £73,20,1000 per annum. The knadowners of London number 34,600, the largest landowners being the Crown, the Ecclesiagical Commissioners, and the City Corporation, whe own together 19 sq. miles, There are in addition 183 large landowners owning on the average 4 of a sq. mile each, the seowning on the average 1 of a sq. mile each, the re-maining owners possessing about an acre each.

Worsted, the name given to a fabric made from long

measures; the game given to a tabric made from long wools or words mixed with cotton or other Serous material. This class of fabrics was first manufactured at, and derived its name from, Worsted, In Norfolk, in the 14th century. Norwich was, until the latter part of the 18th century, the headquarters of this industry, but now for more than 100 years the worsted manufacturing centre has been Bradford.

Wrasse, a sea-fish of the Labrides family. family has numerous species, all of which are thick-lipped. The British species are the balloon wrasse and the red wraste.

and the red wrasse.

Wren, a class of small passerine birds possessing upturned tails, and most abundant in South America.

The British species is an interesting singing bird with a surprisingly loud note for its size.

Wroth Bilwer is the name given to certain annual payments made by tenants of the Duke of Buccleuch on the arth of November each year at Knightlow Hill, in Warwickshire.

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Xanthamide, a crystalline substance, produced by passing ammoniacal gas into an alcoholic solution of xanthic ether.

Ranthia, a genus of moths with brilliant yellow markings found in America and the West Indies. Ranthic Acid, the name given to various ether acids, and consisting of an oily liquid of an astringent

character yielding salts of a yellow colour.

Xanthura, a gonus of American jays, green in colour, mingled with yellow, blue and white, and attaining a length of from 12 to 14 inches.

Xebec, a light three-masted vessel much favoured in

former times by the Algerian corsairs of the Mediterranean,

Xema, a beautiful snow-white sea-gull, with a forked tail inhabiting the northern shore of the American Continent.

Xenops, a lively small bird of the Tree-creeper family, common in South America and peculiar in having an upturned bill,

Xenurus, one of the Armadillos of tropical America. It lives in burrows.

Xenylenio Alcohol, or diphenylic acid; a diatonic alcohol, obtained by the action of water on diazobenzidine nitrate.

Xerus, an African ground squirrel with a rather bristly fur, and an enermous bushy tail

Xoanon, the name given to sculptured wooden mages of the time of the ancient Greeks.

Xonaltite, a Mexican mineral, tough and greyish white, found associated with bustamite and apophyllite.

X Rays. (See Roentgen Rays.)
Xylograph, the name given to an engraving on wood or an impression thereof.

Xyloidine, an explosive compound much recently used in gun-cotton, prepared by triturating starch with funning nitric acid and reducing it to an in-

white testing in the acts and reducing it to an inodorous powder.

Zylophone, a musical instrument comprising a
series of tuned wooden bars supported on bands,
and usually played with wooden hammers.

Xystarch, an Athenian officer, who presided over the gymnastic exercises of the xyst, or covered portico under which the athletes performed.

Yacht, a light kind of vessel now much used for pleasure trips and racing. The first yachting club was the Cork Harbour Club, started about 1720; and it was not until 1812 that the Royal Yacht Squaron was founded at Cowes. The Royal Thames Yacht Club dates from 1823. There are about fifty other yachting clubs in this country. The yachti-racing competitions of greatest interest in recent years have been those for the America Cup, for which Sir Thomas Lipton has unsuccessfully competed three times on behalf of England, and is a challenger forest.

Yak, a curious, long-haired ox, found in Tibet, and there employed as a beast of burden.

Yale University was established in 1701, and is Yacht, a light kind of vessel now much used for

Yale University was established in 1701, and is one of the leading universities of the United States.

It received its name from Ellin Yale, who endowed it largely in 1716.

if largelygin 1710.

Yann, the root of various kinds of diascores, a plent
which grows in Asia, America, Africa and Australia;
used as a substitute for the potato, roasted or belled.

used as a substitute for the potato, roasted or belled. It also furnishes a flour for bread or pudding making. Yankee, a term applied to residents in the New Highand States, and said to have been derived from a corrupt pronunciation of the word English by Indians. Other definitions have been given, but the one referred to seems to be most likely. Yazd, a standard measure of 36 inches, the word being derived from the Saxon gyrd, or rod. The yard was anciently regarded as the circumference of the body, but Henry I. decreed it should be the length of his arm.

Yazn is the textile thread or fibre spun into the form

Yarn is the textile thread or fibre spun into the form

of weft or warp ready to be woven into fabrics.
Yataghan, a peculiar kind of sword with a curved odge, but without guard or cross-piece. It is worn by soldiers and others in the Turkish principalities, and by Turks and Arabs in other parts. The word re also written "ataghan."

Yawi, the jolly boat of a ship, also the name given to any small yacht of the cutter class.

Year. [See Calendar.]

Year-Books, containing annual reports of legal xaar-sooms, containing annual reports or legace, cases, were issued, in England, as far back as the 11th century, and formed the first attempt to establish legal reports. In modern times the title has been given to almost any kind of annual publication, Yearling, a young horse or other animal in the second year of its age.

Yeast, a substance that sets up fermentation, and discovered in 1836 to be a fungoid or vegetable cell. It is the potent agent in the production of alcohol from sugar; added with warm water to flour it commences the process of fermentation that gives sponginess to the loaf in bread-making.

Yesse-Powder, a preparation of soda, phosphates, and other substances that cause fermentation, and is used for leavening bread. Baking-powders are

similar preparations.

Yellow-Bird, a name frequently given to the golden

Terrow-Bird, a name requently given to be gonese or old [2,2].

**Tellow-Hammer, a common British bird of the bunting faulty, which builds on the ground. Its plumage is mainly yellow, and it is a fine singer. Yen, the Japanese monetary unit, represented by a gold com of the value of about 2s. old. English.

Yeoman of the Guard (commonly called "Beef-eaters"—a coruption of "Builtiers") as body of Foot Guards established in the reign of Henry VIII. for the protection of the Royal Person. These soldiers are now few in number, and their duties are soluters are now lew in immer, and their dunes are those of attendants at the Tower and appearing in full dress upon ceremonious State occasions. They still wear the style of dress of the Tudor period. Yaw, an evergreen tree, the wood of which was in

to the days in very great demand for bow-making. Held sacred in Nepaul.

Held

Petsta. The Parsees of India still use the term.

**Realdees_a sect of devil worshippers inhabiting certain parts of Mesopotamua,

**Yoga_a section of the Hindoo philosophy which proclaims the emanculation of the soul through a junction with the unversal spirit. The Yogis are a Saivavite sect, founded by Goraknatha. They have termine as Correlations. a temple at Gorakhpore.

To elimpse at viorantipore.

To relimpse a control of the oldest and finest of English cathedrals, is 54 feet long, its navels 40 feet broad, and the central tower is 216 feet high. The present edifice, in parts, dates back to the 37 century, but a church stood on the site in the 7th century, but a church stood on the site in the 7th century. In 1829 it was set on fire by a lunatic nar Jonathan Martin, and the destruction that then took

phice cost £60,00 to restore.

"Young England Party, a torm applied to a number of young Tory politicians of the Com Law days, who not only opposed the repeal of the Com Law, but proposed to bring about a closer relationship between the upper and lower classes.

Young Man's Christian Association was founded in 1844 largely by the efforts of Mr. George (later Sir George) Williams. It has to-day 7,820 branches in over 40 countries, and a total memberahip of 821,200, the United Kingdom alone 120,500 members. Its headquarters are at the "George Williams House." Russell Square, W.C. Young Mem's Christian Association, formed on the lines of the Young Mem's Christian Association, has a British membership of nearly 120,000, and a total membership of 275,000.

**Extra, a metallic oxide found in combination with cerium, erbium, didymium, and gadolinite in Sweden and Norway. It is a grey-white powder.

powder.

powder,

Tuga, one of the periods into which, in Hindoo
chronology, the history of the world is divided.
There are four:—the Satya Yuga, which contained
1,780,000 years; the Treta Yuga, 1,296,000 years; the
Dwapara Yuga, 864,000; and the Kali Yuga, now in
progress. This began about B.C. 3004, and will
extend to 432,000 years in all, according to the
Hindoo beliefs.

 \mathbf{z}

'Zabra, the name of a small coasting vessel used in the Mediterranean and elsewhere.

Zaccheans, an obscure sect of Gnostics, mentioned

by Epiphanus.

Salophus, a genus of eared seals, in which is included the common sealion of the Californian coast.

Zambon's Pile, a dry volcanic battery, invented by Zamboni, retaining potentiality for a lengthy

period.

Zanzaleens, a Syrian sect of the 6th centuryfollowers of Zanzallee who opposed water baptism, and urged baptism by fire, or by the application of

ante argest computed by the control of the application of not iron; at one time very numerous.

Sebra, an African quadruped of whitish-grey colour, with regular black stripings, perhaps the most beautiful member of the Equine family. Rather larger than an ass, and smaller than the horse, it has

larger than an ass, and smaller than the horse, it has a tuffed tail, is of light build, wild, and fleet of foot; there are several species, and the Quazga and Burchell's Zebra (ground colouring yellow), as well as the True Zebra, belong to the group.

Zebua, a species of oxen having a large hump on the shoulder and short horns. In India and some parts of Africa these animals are domesticated and used as beasts of burden. They are of a light grey colour and very docile. Their flesh makes good foodmeat; the Hindoos, however, do not slay them, but reserved them with much veneration. regard them with much veneration.

Zemindar, the name given to a class of revenue-farmers once common in India, but now to a great

extent superseded.

sexum supersected.

Semastro, a local territorial assembly in Russia for dealing with matters of taxation, schools, roads, etc., under the control of the provincial governors.

Senans, the portion of a dwelling in India where the female members of the family are kept, and to which strangers are not admitted.

Send-Avesta, the name given to ancient sacred books of the Zoroastrians or Parsees. They originally

numbered twenty-one, but only three survive.

Senith, the highest point in the heavens above where an observer stands, the opposite pole to the

Ecolites, a class of mineral found in volcanic rocks.

Crystalline substances which melt under heat, they

are composite silicates of alumina and alkalies.

Seriba (or Zareeba), a military enclosure of prickly brushwood, used with effectuality by the British

troops in Egypt in 1894.

Base, the cypher signifying nothing in Arabic numbers. On a Centigrade or Réaumur thermometer the Zero line marks the melting point of ice; on a Fahrenheit zero is 30 below the water-freezing

Esta, the name given in former times to the closet or

room, above a church porch, where the sexton lived and guarded the documents of the church.

Zine, a familiar metal, known to the ancients, and used by them in the making of brass. It occurs in sulphide or carbonate of zinc and other forms. The ores of zinc are crushed and roasted. In combination with copper it constitutes the familiar alloy called brass, and zinc itself is much used for rooting and

other protective purposes.

Zionists, the name given to a body of Jews whose object is to re-establish their race in Palestine. The movement has been largely taken up, and already numerous settlements of Zionists have been formed

in the Holy Land.

Bohemia, as an alteration product of uraninite; it is essentially a hydrated sulphate, shaded yellow, of essentially a hydration.

sesquioxide or uranium.

Ziroonflum was discovered in the sand of the rivers of Ceylon in 1789, and is the metallic base of Zirconite. It appears generally in the form of a black powder, after chemical modification.

atter chemical mouncairon.

21ther, a stringed musical instrument of the dulcimer kind, having strings of metal which are played upon with the right hand, a plectrum being used for

with the fight hand, a piectum being used to striking the strings.

Zodiao, the belt of the firmament enclosing the circuit over which the principal planets travel. It is divided into 12 equal spaces of 30 degrees each, comprising respectively the 12 signs of the Zodiac-Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricornus, Aquarius, and

Zoetrope, an optical instrument of a cylindrical shape, exhibiting pictures in such a form that the figures in them seem to be endowed with motion.

Zollverein, a commercial federation of German States, dating from 1818, for the maintenance of uniform duties and tarlifs as against foreign countries and of Free Trade between themselves. It is now co-extensive with the German Empire.

co-extensive with the German Empire.

Zone, an imaginary geographical best encircling the
earth. There are five of these zones—the Torrid
Zone, from tropic to tropic; two Temperate Zones,
from the tropics to the Polar Circles; and two
Frigid Zones, from the Polar Circles to the North
and South Poles respectively.

Zoolatry, animal worship, which in ancient times prevailed among the Egyptians and other primitive races. The zebu is still an object of adoration amongst the Hindoos, and snake-worship survives on the African west coast.

on the Arrican west coast.

Zoological Gardens of London were opened in 1827, and belong to the Zoological Society of London. They contain one of the largest and most varied collections of living animass in the world.

Zoology, the science of animal biology, treating of the structure, classification, and distribution of the various members of the animal kingdom.

Zoomorphism, characteristic exhibition of the forms of the lower annuals, as distinct from man, an element entering largely into classic mythology.

Zoophyte, the name given to a class of organisms combining the nature of both plants and animals,

such as corals, sponges, sea anemones, etc Zorilla, a small African quadruped of the Skunk

ZOPIIIA, a small Airican quantuped of the Sauna order, usually striped or spotted, and possessing the power of ejecting a noxious odour.

ZOUAYUB, a body of French soldiers first organised in Algeria, and then consisting exclusively of Herber natives. They were a fine body of troops, and did good service both in Algeria and Europe. As now constituted the Zouawa rectingent are almost are. constituted, the Zouave regiment are almost exclusively French.

clustely French.

Zulus, a native African people occupying Zululand, now included in the colony of Natal. They are a brave race, and in a war with Great Britain in 1879 inflicted severe defeats upon our troops. The Zulu King. Cetawayo, was finally defeated and taken prisoner, and his country annexed.

Zymoscope, an instrument for testing the fermenting power in yeast, invented by Zenneck.



Pears' Dictionary of Prominent People

Past and Present

A BIOGRAPHICAL DICTIONARY, GIVING PARTICULARS OF THE LIVES AND LEADING ACHIEVEMENTS OF THE MOST DISTINGUISHED MEN AND WOMEN OF ALL AGES AND COUNTRIES.

Abbas II., Khedwe of Egypt (b. 1874), succeeded his father, Tewfik Pasha, 1852.

Abbay, E. A., R.A. (b. Philadelphia, U.S.A., 1852, d. 1912). Came to England 1878. A great pamer and book Bustator, and alterary man of abhity.

Abbay, E. A., Arhbashop of Canterbury in foir, and the control of the Bille translators of the authorised version of the Bille.

of the Bible.

Abd-el-Kader, Emir of Mascara (h. 1807), of princely rank. Violently opposed French octupation of Algeria from 1830 to 1844. Made prisoner 1847, released 1892; d. at Damascus 1883.

Abdul-Asiz, Sultan of Turkey from 1861 to 1876.

Abdul-Hamid II., Ex-Sultan of Turkey (h. 1842), succeeded his brother 1876. Began his reign with proposals of reform, but after the Russo-Turkish War (1877-1878) assumed autocratic rule. Went to war with Greece in 1897, and was victorious. Conceded a constitution in 1898, but, becoming the tool of a reactionary movement, in April, 1909, was dehis brother and heir, Mahommed Reshad (g.v.), succeeding him.

his brother and heir, Mahommed Reshad (g.w.), succeeding him.

Bodul-Medjid, Sultan of Turkey from 1830 to 1851.

Bodul-Medjid, Sultan of Turkey from 1830 to 1851.

Bodul-Medjid, Sultan of Turkey from 1830 to 1851.

Rabeaket, Thomas, Archbishop of Canterbury under Henry II. (b. 1718). A powerful and ambittous prelate who boldly supported the authority of the Pope against the dictates of the King, and was assassinated in Canterbury Cathedral December 29th, 1170. being canonised two years later.

assassinated in Canterbury Cathedral December 29th, 1770, heing canonised two years later.

A. Beckett, Gilbert Abbott (1811-1856). Well known by his contributions to Phench and as the author of some comic histories. Was a London stipendiary magistrate.

Bell, Bir Frederick, Bart. (1827-1002). Became Professor of Chemistry at the Royal Military Academy in 1851, and in 1852 was appointed chemist to the War Department, holding that office until 1888. Joint inventor, with Prof. Dewar, of cordite.

Abelard, Peter (1079-1124), scholar, philosopher and theologian. The romantic attachment between him and Héloise, mainly set forth in The Letters of the latter, has been more written about than perhaps any other love affair. Their remains now lie in one Jounb at Père Lachaise, to which they were removed after the Revolution. after the Revolution.

Abencerrages, a Moorish faction, prominent in Granada in the 15th century. The hall of the Abencerrages in the Alhambra is said to have been the scene of the massacre of this noted family by King Abu Hassam.

Abenconway, Lord (b. 1850), formerly the Rt. Hon. Sir Charles B. McLaren, largely interested in leading steel, coal, ship-building, grante and other industries, and from 1880 to 1917, when he was raised to the peerage, an active Liberal M.P.

Abercorn, Duke of (b. 1860), succeeded his father, the and duke, 1913. M.P. for Londonderry, 1906-13. Treasurer to H.M.'S Homsehold, 1903-05.

Abercrombie, James, a British general who led an expedition against the French in Canada in 1948, and suffered deteat by Montcalin at Ticonderoga.

Abercromby, SiP Ralph, an English general who gained a victory over the French at Alexandria in 1801, but died from wounds received in the battle.

Aberdean, Rt. Hon. Geo. Hamilton Gordon, 4th Earl of 1978-1860. The distinguished statesman and Prime Minister, grandfather of the present Earl, was appointed British Ambassador-Extraordinary to Austria, and signed the preliminary treaty at Töplitz in 1813, and the next year the Treaty of Parls. Was Foreign Secretary under Wellington, and Colonial Secretary under Peel first, and then Foreign Minister for the five years from 1841 onwards, becoming Premer in 1892 and resigning in 1855, his Ministry being formed of a calition between the Whigs and Peelites.

**Display of the Peel for 1985 and 1981 onwards, becoming Premer in 1892 and resigning in 1855, his Ministry being formed of a calition between the Whigs and Peelites.

**Display of the 1985 and resigning in 1855, his Ministry being formed of a calition between the United Ministry being formed of a calition between the United Ministry being formed of the 1987, Lord-Licutenant of Ireland January to July 1880, and also from 1905 to 1914. Governor-General of Canada 1893, 1989.

**Display of the 1985 and resigning in 1855, his Ministry being formed of social reform.

**Display of the 1985 a

assidious advocate of social reform.

Abennethy, John (1764-1831), one of the most celebrated surgeons of his time, noted as much for his eccentric itaniers as for his professional skill, About, Edmond F. V. (1828-1885) emment French novelist and journalist.

Abraham, Rt. Hon. William, P.C., M.P. (b. 1841). Originally a working collier; since 1885 has been representative of the Rhondda Valley Div. in Parliament. President, S. Wales Miners' Federation.

Abruzzi, Duke of the (b. 1873), is the third son of Amadeo, Duke of Aosta, and has greatly distinguished himself by Arctic exploration. In 1899 he advanced nearer to the North Pole than any previous explorer had done, ilis expedition reaching 86 degrees 34 minutes N. laittude, or 20 minutes beyond Nansen's 1893-1896 achievement. Peary, the American explorer (g.v.), has, however, since eclipsed this record. In 1896, the Duke of the Abruzzi made the ascent of Mount St. Elias, Alaska; and in 1906 he conducted an expedition to Ruwenzori, the great mountain range in the heart of Africa.

and in 1906 he conducted an expedition to Ruwenzori, the great mountain range in the heart of Africa.

Abt. Franz (1819-1885). A German composer of
popular songs which acquired a world-wide reputation; d. at Wiesbaden. One of his best known
songs is "When the Swallows Homeward Fly."

Actand, Francis Dyka, M.P. (b. 1874), UnderSucretary for Foreign Alisirs since 1911, previously
Financial Secretary to the War Office. Son of Rt.

Hon. A. H. D. Actand. Represents N.-West Cornwall.

Actan. Lord, 181 Baron (1824-1902). Brought up in

Hon. A. H. D. Acland. Represents N.-West Cornwall.
Acton. Lord. sts Baron (1823-1902). Brought up the Roman Catholic fauth, and became celebrated for his historical studies and theological writings. In politics was an earnest supporter of Mr. Gladstone. Became Regius Professor of Modern History at Cambridge in 1895. Had a most extensive library, which was bought at his death by Mr. Andrew Carnegie, by whom it was presented to Mr. John Morley, who in turn gave the greater portion of it to Cambridge University.

Adams. John. succeeded Washington as President of the United States, and was the first of the Republic's ambassadors to England, d., 1826.

Adams. John Couch (1879-1829), an eminent English mathematician and astronomer. Co-discovere with Leverine of the Nepuet Neptune.

English mathematician and astronomer. Co-discovere with Leverier of the planet Neptune.

Addison, Joseph (1679-1719). The son of an English clergyman, he achieved fame both as a writer and a politician, Held many offices under various statesmen and governments, and by his famous essays, first in the Tatler, and afterwards in the Systetor, made an undying name. His tragedy "Cato" was a brilliant success. Princers of Save Addiside. One of the systems of Save Addiside.

Adalaide. Queen (1792-1849). Princess of Saxe-Coburg-Meningen, wife of the Duke of Clarence, afterwards King William IV. of England. Became Queen in 1830, and was Queen-Dowager from 1837 till her demise, her widowhood being spent in works

till her demise, her widowhood being spent in works of benevolence and charty.

Adlar, Dr. Hermann (1830-1971). Chief Rabbi United Hebrew Congregations of British Empire from 1831 until his death. Was an active worker in all prominent Jewish movements.

Adye, General Bir John (1870-1900), entered the Royal Artillery 1836, made Cuptain ten years later, went through the Crimean War, where he achieved much distinction. Served in the Indian Mutmy, and remained in India until 1856. From 1870 to 1873 director of artillery at the War Office. K.C.B. 1873.

Bischings (380-214 B.C.) a great Athenian orator,

Schines (389-34 E.C.) a great Athenan orator, comemorary and opponent of Desnothenes.

Sechylus, the father of the Greek tragic drama (456-353 B.C.) Composed seventy plays and gained the prize for dramatic excellence thirteen times.

(455-535 B.C.) Composed seventy piays and gamed the prize for dranntne excellence thirteen times.

Exop (b. in Greece about & 20, d. 544 B.C.). His fables are the most celebrated productions of the kind.

Affalo, F. G. (b. 1870). A well-known English writer on natural history and sport.

Kassiz, J. L. R. (1807-1873). Born in Switzerland, this noted naturalist became a student of and writer upon ichthyological pursuits, his first great work being a history of the fresh-water fishes of Central Europe. Visited England in 1894. Appointed professor of Natural History at Neuchâtel in 1838. Went to America in 1846, and remained in that country up to his death, having occupied many important offices and done much good work for the extension of his favourite branch of study.

Agatha, Bt., a Sicillan virgin martyr who was put to death at Palermo, AD, 251.

Agha Khan, Sultan Mahomed Shah (b. 1877), head of the Ismaliah Moslems, settled in British India. Created K.C.I.E. in 1897 and G.C.I.E. in 1902.

Roman Consul of Britain 78 A.D. Strengthened the power the Romans in this country, corrected many abuses, and did much to encourage trade and

many souses, and the man to construct the industry. Remained in Britain seven years. **agrippa, Cornelius** (1,26-1533), soldier, diplomatist, and philosopher, achieved great entinence under the German Emperors Maximulian and Charles V. As a theologian he incurred the violent hatred of the Dominican monks; as a student of the occult he Louise of the reputation of a magician.

Actions Winsaming** (69-12 B.C.). At

Agrippa, Marcus Vipsanius (63-12 B.C.). At eighteen obtained important military appointments.

eignicen ortained important military appointments, and achieved such fame for his successes that he was chosen Ædile 33 B.C. He was the greatest military commander of Rome, after Julius Cara-Agrippiams (the Elider) daughter of Marcus Vipsanius Agrippia, wite of Germanicus, and mother of Calignia, was one of the most virtuous and heroic women of her time; remarkable for her bold defance

women of her time; i emarkable for her both denance of the tyrant Tiberius. She died A.D. 33.

Agrippina (the Younger), daughter of the last named, and uncher of N.Co, was notorious for her abandoned licentiousness and perfidy. Claudius made her his consort in 48 A.D. Her carer was one

made her his consort in 48 A.D. Her career was one long course of intrigue and infamy. She was ultimately put to death by the order of Nero, 60 A.D. **Aguinaldo, Emilio**, a Philippine leader, who first commanded the native revolt against Spanish rule, and later opposed the United States forces, but after stubborn resistance was captured in March, root. **Ahmed Mirks**, Sha of Persa (b. 1807), succeeded to the throne in 1909, on his father's abdication and flight, though not crowned until July, 2014.

to the throne in 1500, on his father's abdication and flight, though not crowned until July, 1514.

Aldan, Baint, an early nussionary who, in the 7th century, founded the noisistery of Lundisfarne, and was known as the "Apostle of Northumbra."

Alda, Hamilton (1829-1906), painter, novelist and dramatist, Sometime an officer in the British Army; author of Rita, Confidences, and other clever novels, also of many, poems, and of the plays of "Philip," and "A Nine Days Wonder."

Altin, Lunw (1781-1864), an industrious and name.

also of many poemis, and of the plays of "Philip," and "A Nine Days 'Wonder."

Alklin, Lucy (1781-1864), an industrious and pamstaking writer of historical and other studies, and niece of Mrs. Barbauld. Among her best known works are a Life of Addison and Memostra of the Court of Queen Likiaabeth.

Ainsworth, William Harrison (1805-1882). Between 1834 and 1850 his novels had considerable vogue. The best known are State Sheppard, The Tower of London, Guy Fawher, and Windser Castle. Aird, Sir John, Bart. (1833-3911), a contracting engineer of eminence, associated with the carrying out of many great undertakings in different parts of the world, the wonderful Associan Dam, on the Nile, being one of his most remarkable achievements. Was M.P. for North Paddington, 1887-1905.

Aired. Sir. Lord (1856-7911), was head of the well-known firm of Kitson & Co., of Leeds, locomotive builders, iron and steel manufacturers, and engineers. A prominent Liberal, who, as Sir James Kitson, Bart., sait in the House of Commons for many years as member for the Colne Dysion. Was a personal friend of Mr. W. E. Gladstone. Made saronot in 1805, and raised to the peerage in 1907.

Airy, Sir Georgie (1871-1881), for many years astonomer royal, and the first to demonstrate the theory of the Cambook of the C

theory of the rambow

astionor toyat, and the first to demonstrate the theory of the runbow.

Akbar the Great, Mogul emperor from 1542-1605, and a monarch of great enlightenment and power.

A Kampis, Thomas (See Kampis.)

Akansida, Eark (1721-1776), the son of a butcher of Newcastle-on-Tyne, a poet of some note in his day, whose "Pleasures of the Imagination" is still read. He was also a physician, and practised first in Northampton and then in London. Wiscounts.)

Akars-Douglas. (See Gallason, Wiscounts).

Akars-Douglas. (See Gallason, wiscounts).

Alaric, the famous chief who led the Visicoths against the Romans, and afterwards invaded both Creece and staly. He took Rome in 470, died the following year, and was buried with a vast treasure in the bed of the River Busento, and so that the Romans might not discover his remains, the slaves who buried him were put to death.

Alban, Sés, who flourished in the latter part of the

ard century, was born at Verulamium (where St. Albans now stands) and served as a soldier under Diocletian at Rome. Later he was converted to Christlanity, and was for a time a renowned preacher Christianty, and was for a time a renowing preactive of that religion, finally suffering martyrdom. Offa, king of the Mercians, built a monastery to his memory near Verulamium, four or five hundred years later. St. Alban's Day in the Calendar of the Ronan Church is June 22nd, and in that of the

Anghena Church is June 22th, and in that of the Anghena Church June 17th
Albani, Madama, b. 1852, near Montreal. Made her first appearance on the lyric stage in England at Covent Garden in 1872. Married Mr. Ernest Gyc. in not cover Garden in 1872. Watried Mr. Ernest Gyd. in 1878, was for many years a leading prima doma, achieving great celebrity as Elsa in "Lohengrin." As a concert room singer also reached high rank.

Alberoni, Cardinal (1964-1952), munister of Philip of Spain, was an Itahan of humble birth. For some

years he exercised great influence. His object was to restore to Spain her ancient power, but he was too reckless in the conduct of foreign affairs to succeed. Plunging into war with Austra, he found himself confronted with the Quadruple Alliance—Austria, Ingland, Holland and Frunce—and his plans were defeated. He was launtself from Spain and died in his native town of Piacenza, leaving great

Abert. Prince Francis Augustus Charles Emmanuel, Consort of Queen Victoria (1219-1801). On his marriago with the Queen in 1840 Farlament granted him an income of £30,000 a year. The Prince adapted limited with con aderable success to Prince adapted himself with con aderable success to the difficulties of his position, and gradually secured the confidence and esteem of statesmen and public alike. He devited hunself to artistic pursuits and greatly interested himself in Science and Industry. The Great Exhibition of 1857 ewed much of its success, if not its origin, to his efforts. The title of Prince Consort was conferred upon him in 1857. He was attacked by typhoid fever in December, 1861, and died after a very short illiess. The Albert Memorial in Hyde Park forms a splendid national

Albertus Magnus (1007) some authorities say 2205-2200 was a distinguished German philosopher, and volunimous writer on the occult sciences. Bishop of Ratisbon from 1260. His dabblings in alchemy

and astrology gained him unde notonety.

Alcasus, a Greek lyne poet of the 7th century B.C.

Alcaster, Baron Frederick Seymour (18211895), commanded the British fact that successfully bombarded Alexandra in 1882,

Leibindan D. creat (18 B.C. treacherously killed

bombarded Alexaudra in 1882.

Alcibiadea (b. ctra. 450 B.C., treacherously killed in battle at Melissa, Phrygia, B.C. 404), the celebrated Athenian statesman and general, pupil and friend of Socrates. Handsome, talented, capricious, and imperious; he sided with the Spartans after reaching distinction in Athens. Later he went over to the Perslams, but soon returned to the Athenian army, winning brilliant battles, against the Pelopennesians and Persians, but suffering defeat at Andros.

Alcain (733-804) was an exclessatic and writer of much prominence. He sustained successive important offices in the English Church, and later went to

tant offices in the English Church, and later went to Franco on the invitation of the Emperor Charlemagne, from whom he enjoyed much favour. His last years were passed at Tours, in the Abbey of St. Martin. The writings he left behind him were mainly theological and historical, and he is generally credited with the composition of the famous. "Zaroline-Books," which bear the name of Charlemagne. Aldhelm. St., an English missionary and scholar of the 7th century, who was successively Abbot of Malmesbury and Bishop of Sherborne. Aldread, a powerful ecclesiastic of the 1rtl century in great favour with the Conqueror, whom he crowned. Was Bishop of Worcester (104-106), and Archbishop of York (106-59). tant offices in the English Church, and later went to

of York (1060-60).

Alexander, Sir George (b. 1858); well known as an actor manager; made his first appearance in 1870 at Nottingham. In 1881 was engaged by Irving, and for some years held a prominent position in the 2-yeeus company. In 1891 became manager of the

St. James's Theatre in London, achieving many successes. Elected a member of the London County

successes. Elected a member of the London County Council, 1907. Knighted, 1917.

**Alexander I. of Russia (1777-1825) succeeded his father, Paul I., and played an active part in the Napoleonic wars, joining the coalition against him in rico; and again in 1812, and often taking active part in the military movements.

**Alexander II. of Russia (1818-1881), succeeded his father, the l'imperor Nicolas, in 1825. In 1867, he emancipated 23 millions of serfs. On March 73, 1881, was assassinated by hough thrown beneath his

carriage in St. Petersburg by Nihilists.

Alexander I. of Servia (1876-1903), was the son of King Milan and succeeded his father on the latter's abdication in 1889, the rule of the country being carried on under a Regency mitil 1893. Alexander and his Queen Draga were both assass-

Alexander and his Queen Draga were both assass-inated by military revolutionaries in 1903.

Alexander the Great (155-323 B.C.), King of Macedon, succeeded his father Philip in 3,6 B.C., and from the first showed limited fitted for mighty military exploits. He conquered in turn the Thelans, the Persian Satraps, overthrew Darius, overtan Syria and Pinenica, jossessed limited of all the other along the shorts of the Mediterranean, conquered Egypt, and founded Alexandria, and finally retired upon Babylon, intent on binding up in Finonic of which that ancient city should be the an Empire of which that ancient city should be the capital, but thed cleven days later.

Aloxandra, Queen (b. 1844), d. of Chris ian IX. of

Aloxandra, Queen (b. 1844), d. of Chris an IX. of Deumyk, marred to the Prince of Wales fatterwards Edward VII.) on March 10, 1803. Queen from Jan. 22, recu, to May 6, 1510.

Alexcieff, Admiral (b. 1844), was Viceroy of the Russan Domunous in the 1 ar Last at the outbreak of the Russo-Japanese War in 1904.

Alfaeri, Count Vittorio, the Italian poet (1749-1803), was the author of twenty-one tragedies and six recombines and did much to review the greatness of

comedies, and did much to revive the greatness of

comedies, and did much to revive the greatness of the Italan tragic drama.

Alfonso the Wise (1221-1284), a celebrated King of Leon and Castle, kounder of the legal code which became the basis of Spanish jurisprudence, a liberal patron of literature and science, particularly of astronomy; dethroned by his son Sancho m 1282,

Alford, Henry (1810-1971), an emment theologian and writer, Dean of Canterbury, and the first editor of the Contemporary Rentew.

Alfred the Great (1849-201), succeeded his father, Ethelwalf, kung of the West Saxons, at the age of twenty-two, and found himself in conflict with the Danes from the out set. After sax years of unsuccessful

Danes from the outset. After six years of unsuccessful effort he took refuge in the Isle of Atheliney, but the effort he took refuge in the Isle of Athchiey, but the following year was able to attack the Dains in great force at Edugation (Ethandun), and was completely victorions. Subsequently he had some years of peace, and during that time did minch to lay the foundations of the country's future greatness. Later, the Daines again invaded the country, and the rest of Alfred's ruign was occupied in conflict. Alfred died at the age of fifty-two, after a reign of thirty years, and was buried at Winchester. He codified the laws and cave England her first fleet.

years, and was buried at winenester. He conduct the laws, and gave lingland her first fleet. **Allson, Sir Archibald** (1792-1807), was the author of a voluntinous *History of Enrope* from 1789 to 1815—a vast istorchouse of facts rather punderously

1815—a vast storehouse of lacts rather pointerously handled—and of a continuation, to Napoleon III.

Allbutt, Sir Thos. Clifford, K.C.B. Regins. Prof. of Physic, Cambridge Univ., since 1822 % 18261. Inventor of the Short Chnical Thermometer and author of numerous works on medicine and surgery.

Allen Charles Grant (title-189), a popular writer and novelist possessing a wide range of subjects, writing jequally well on science, literature, and art, and achieving pote in the field of fiction.

Allerton (Rt. Hon. W. Lawries Jackson), 181

Baron (htt. Hon. W. Lawies Jackson), 1st.
Baron (b. 1840) was for many years successfully
engaged in the leather trade at Leeds; entered
Parliament, was Financial Secretary to the Treasury
for several years, and Chief Secretary for Ireland in
1891-1892. An active and distinguished Chairman of
the Great Northern Railway Company, he was
raised to the peerage for his political services in

King Edward VII.'s Coronation year. Father of F. S. Jackson, the cricketer.

Alleyne, Edward (1506-1626), a famous actor, contemporary of Shakespeare and founder of remporary Dulwich College.

Dulwich College.

Alma-Tadema, Sir Lawrence, R. A. (1836-2012), the son of a Netherlands notary, was educated at Antwerp, and came to England in 1869, where he soon made a name for hinstell as a painter of classical pictures of great beauty of colour and delicate design. He was elected R. A. in 1878. Knighted in 1879, and was a member of the Order of Ment. An exhibition of his works was held in 1913.

Alared (or Alfred) of Bewerley was one of the city English historian, and flourished in the 2st century. His history of England was written in

century. His history of England was written in farm, and covers the (chiefly fabulous) chronicles of

Latin, and covers in cinnelly faunding erronicies of the period from the Roman occupation to Henry L. (remained in MS. until 1716.

Alvarstone, Baron Sir Richard Webster (b. 1842); educated at Charterhouse and Tunity Oilege. Admitted to the Bar 1849, made Q. C. 1828, elected M. P. for Launceston in 1882, and became elected M.P. for Launceston in 1885, and became Attorney-General the same year; was re-appointed Attorney-General in 1839, and again in 1895, Master of the ROIS in 1890, in which year he was made a peer and Lord Canef Justice. Resigned 1913. Ambrose, Saint, Bishop of Milan in the reign of Theodosus, whom he bonnes from the Church

because of his massacre of the Thessalonians.

Amerigo Vespucci (1452-1512), an Italian navigator who made important voyages of discovery. In 1499 he reached America and explored the coast line for some hundreds of leagues, returning to Spain the same year. It was unknown to him that Columbus had landed in America the year before that discovery being kept a State secret, so that Vespucci's narrative was the first information publicly

given of the discovery of the continent.

Amery, Leopold C. M. S., M P. (b. 1873)—son of C. F. Amery, of the Indian Forest Department—born at Gorakhpin, educated at Harrow and Oxford On Times staff since 1899, edited the Times History of

Amheret, General (1717-1707), won distinction in the conquest of Canada in association, with Wolfe Ampère, André Marie (1775-1831), a celebrated I reach mathematician who devoted himself successions

fully to the study of electricity and magnetism, and was the first to propound the electro-dynamic

Ampthill, Baron (b. 1800), was private secretary to Mr. Chamberlain for some years, and in 1900 was appointed. Governor of Madras, Became Viceros and Acting Governor-General of India in 1904-1905 during Lord Curzon's absence. Son of the first Lord Ampthill, ambassador to Germany.

mundeen, Captain Ronald b. 18731. Norwegian explorer, after graduating at Christiana University went to see in scaling and whalling ships to gain polar experience, and in 1897 was a member of the Gerlache expedition. In 1906 navigated the North-west pas-sage; in 1911 set out ahead of Captain Scott on a South polar quest, and early in 1912 the news came

South polar quest, and early in 7072 the news came that he had succeeded in reaching the South Pole.

Anacron (500-475 B.C.), the celebrated Greek poet whose Odes hold a high place in poetic iterature.

Anaxagoras (500-428 B.C.) was a famous Greek philosopher of the Ionic School, among whose pupils were Socrates, Pericles, and Euripides.

Anaximander, a celebrated Greek philosopher (610-547 B.C.). He is said to have been the first to note the obliquity of the eclipite, invented geographical maps, and laid down the theory that the moon shone with light borrowed from the sun.

Anaximanea, a Greek philosopher of the Ionian school, flourished 6th century B.C.; friend of Anaximander; regarded air as the principle of things.

Anaximenes (of Lampsacus), son of Aristotle

mander; regarded air as the principle of things.

maximenes (of Lampsacus), son of Aristotle
(lived in 4th century B.C.); thetorician, historian, and
companion of Alexander the Great, historian, and
companion of Alexander the Great,

mandersen, Hans Christian (1805-1875). Perhaps the most gifted writer of fairy tales that the
world has known. His Tales for Chileren, the Wild

Swans, The Improvisatore, and The Ice-Maiden are the datatest productions in that class of literature; and his Story of my Life is as interesting as his fairy tales. Born and died in Dennark.

taies. Born and died in Denmark.

Anderson, Elizabeth Garrett (b. 1836), one of
the first Englishwomen to enter the medical profession. Practised in London tor many years. In
1909-10 was Mayoress of Aldeburgh, her native town.

Anderson, Mary (b. 1859) of Anglo-German
parentage and Californian nativity, was for some

years an actress of celebrity, appearing in America and England with great success. Retired from the

stage in 1889 on marrying Mr. Antonio de Navarro.

Andrassy (1823-1890), a prominent Hungarian statesman, who, after being in exile from 1848 to 1851, was advanced to a leading position and was Prime Minister in 1867

Minister in 1807

**Andre, John (1,551-1780) was an Finghish officer who, while engaged on the British side in the American War of Independence, was arrested as a spy 19

Washington, tried by ct. it is generally believed wrongfully, from a misapprehension of the facts. Washington himself declared America to be accessed.

André to be more unformans were brought from America and interred in Westminster Abbey.

and interred in Westminster Abbey.

Andrea del Sarko (1486-1531). This celebrated son of a Florentine tailor was one of the great Italian artists of his time, known as the "fault's syamiter" Most of the famous galleries of the world contain examples of his magnificent free-co and other painting, mainly dealing with religious subvects.

Andrée, Salomon August, a Swedish explorer who attempted in 1807 to reach the North Pole by balloon, liut, except for a message by pigeon despatched two days after his ascent, was never

heard of again.

Andrewes, Lancelot (1525-16.6), a distinguished English prelate who was in turn Bishop of Ely, Chichester, and Winchester, and one of the trans

Chichester, and Winchester, and one of the trans lators of the authorised version of the Bible.

Angelico, Fra. (1381 14ct), a famous Italian painter of religious subjects, mostly in the form of frescoes, of which the best examples are at Florence.

Angelo, Michael. (See Michael-Angelo.)

Anglessey (Henry Paget), first Marquis of (1768-1854), a celebrated British general, who led the cavalry at Waterloo and achieved much distinction by his tact and bravery.

Anna Boleyn. (See Boleyn, Anna.)
Anna, Queen (1664-1714), Queen of Great Britain
and Ireland from 1762 to the time of her death, was
a daughter of James II., and succeeded William III., a daughter of jumes Ir., and succeeded within the coust. During her reign, Fngland, in alliance with Austria, Holland, Pruseia, Savoy and Portugal, entered upon the War of the Spanish Succession. It was in this war that Mariborough achieved his It was in this war that Mariborough achieved his great victories, and his wife. Sarah, for a long time was Annie's favourite, and wielded an immense mfuence at Court, the Queen being too wanting in self-reliance to take much initiative of her own Annie's relign has been called the Augustan Age of Britain because of the many eminent men of letters who flourished during that period. She was the last of the Stuarts to occupy the British throne, and the first monarch to be styled Sovereign of Groat Britain, the union between Great Britain and Scotland dating from 1707. Anne was married to Prince George of Denmark, and their numerous progeny all died in childhood.

childhood.

Anselm, Archbishop of Cauterbury (1033-1100), was a native of Aosta, and succeeded Lanfranc as English Primate. He was in serious conflict with William Rufus on the question of ecclesiastical rights, and for a time suffered exile. Under Henry I he regained power, making a compromise with that monarch which enabled him to carry on his theological work in comparative harmony. He died at Canterburg, and was canonised later, his day being celebrated in the Roman Church on April 21st.

Anson, Lord George (1697-1961), a navigator of great eminence, whose "Voyage Round the World" is still a popular book of adventure. He won many victories, obtained a peerage, rose to full Admiral's

rank in the Navy, and served two terms as First Lord of the Adulralty. Anson, Sir Wm. R., Bart., P.C., M.P. (248-1914). Represented Oxford University in Parliament from 1890; was Parliamentary Secretary to the Board of Education, 1902-1905, and is the author of books on the Law of Contract and Constitutional Law.

the Law of Contract and Constitutional Law.

Instry, Christopher (1724-1806), was a poet and wit of repute, whose "New Bath Guide"—in which the fashionable frequenters of Bath, their habits and surroundings, were depicted with much shrewd humour—was a great success.

Intonelli, Cardinal (1806-1876), was the first Premier of the first Constitutional Ministry of Pius IX. In the long trouble between the Pope and the French, and during the Garibnidian campaign, he had a very difficult part to play, but he displayed considerable diplomatic power, and it was he who wrote requesting the Italians to occupy Roine.

Intonina Plus, Emperor of Rome from A.D. 138 to 161, was the successor of Hadnan, and formed an agreeable contrast to most of the Roman Emperors.

acreeable contrast to most of the Roman Emperors. in that he endeavoured to govern more with an eye to the public well-being than his own personal pleasure. It was during his reign that the wall between the Forth and Clyde was built.

between the Forth and Ciyde was built.

Antony, Mark (circus and prominent adherent of Cassar; but engaged in intrigues after the latter's death, and was opposed by Brutus and Cassus. His association with the Egyptian Queen Cleopatra made him a prominent figure of historic romance. Committed suicide after defeat by Octavian.

Antony, St. (or Anthony) (rirca asi-35), was a native of Upper Egypt, and according to his own account spent much time in conflict with the devil. He is one of the best known saints of the Roman

He is one of the best known saints of the Roman calendar, and his festival is on January 17th. was believed to give relief to those who appealed to him when suffering from erysipelas, from which tradition the name St. Anthony's Fire is given to the

Apelles, the famous Greek painter, flourished in the time of Alexander the Great, whose friendship he

time of Alexander the Great, whose friendship he enjoyed. His "Aphrodite Anadyomene," panted for the temple of Aisculapus in Cos, has been accounted the most perfect picture of antiquity.

Aguinas, Thomas (1225-1274), the "Father of Moral Philosophy," was a native of Southern Italy and came of a noble family. In 1243 he joined the Dominicians, and the remainder of his life was ypent in religious pilgrimages and disputations. In 1263 he visited London. He left behind him numerous theological and philosophical writings of great power. He was canonised in 1242.

He was canonised in 1323.

He was canonised in 1323.

Egyptian rehellion of 1881, and defended Alexandria against the British fiert. Later he suffered defeat and was captured at Tele-el-Kebir, was banshed to

and was captured at Tel-el-Kebir, was banished to Ceylon, but released in 1901.

Arago, François Jean Dominique (1786-1833), a French astronomer and natural philosopher of great eminence, whose researches added nuch to our knowledge of electricity and magnetam. His expositions of the polarisation of light did much to advance that branch of science. In the field of astronomy he also achieved much distinction. He was awarded the Copley Medal of the British Royal Society. Arago was an ardent Republican, and was made a member of the Provisional Government after the Revolution of 1848, becoming Minister of War and Marine. On the accession of Louis Napoleon he refused to take the oath of allegiance.

Napoleon he refused to take the oath of allegiance.

***Param.** Bungane (1704-1750), was a schoolinaster of considerable learning, and lived at Knaresborough, in Yorkshire, from 1734 to 1745, in which latter year a friend of his, one Daniel Clark, suddenly disappeared. Soon after, Aram also quitted Knaresborough. In 1759, while Aram was teaching in a school at Lynn, a skeleton was discovered at Knaresborough, and it was declared to be that of Daniel Clark. This was denied by a man named Houseman in such a manner as to cause suspicion to fall upon him, and he was arrested, whereupon he

confessed that Clark had been murdered in his presence by Aram, and that his body would be found in St. Robert's Cave. Search disclosed the actual skeleton, and Aram was also arrested, tried actual skeleton, and Aram was also arrested, tried at York, found guilty, and executed. His defence was powerful and eloquent, but availed him nothing. Lord Lytton's novel, Eugene Aram, and Tom Hood's (ramatic poem, The Dream of Eugene Aram, effectively deal with the romantic story, Arbuthnot, John (1667-1735), a prominent wit, doctor, and litterateur of the Queen Anne period. His History of John Rull is his best known work.

Arch, Joseph (b. 1826), the founder of the National Agricultural Union, was for many years an agricultural Inbourer, and championed the cause of his class with great ability. Sat for some years as M.P. for N.W. Norfolk, finally retiring in 1700.

Archer, Fred (1857-1826), a favourite jockey for several years, winner of many leading races, his first several years, winner of many leading races, his first

Ardner, Freq (1857-1880), a lavounte lockey for several years, winner of muny leading races, his first Derby falling to him in 1872.

Archer, William (b. 1850), educated at Edinburgh University, and settled in London in 1878, acting as dramatic critic of the London Figare from 1879, to 1881. From 1881 to 1905 dramatic critic of The World, now of the Star, and has published many volumes on dramatic matters. The first to make

volumes on dramatic matters. In a first to make libera known to the British public.

Archimades (287-212 B.C.), a Greek geometrician and philosopher of remarkable power, to whom we are indebted for the discovery of the principles of the lever and of specific gravity, and for the

invention of the famous archimedean screw.

Ardiaun, Baron (1840-1913), lie head of the Gunness family of Dublin, and owner of the Muckross Abbey Estate, Killarney, was M.P. for Dublin 1863 8466 and 1874-1880. Created baronet in 1868, and raised to the peerage in 1883.

Argand, Aimé (1755-1803), inventor of the lamp bearing his name, which for the first time introduced a current of air to perincate and increase the power of

a current of air to permeate and increase rue power of the fiame, by using a chinney glass and circular wick. He was a Swiss physician.

#rgyll, Duke of (1845-1914), married H.R.H.

Princes Louise in 1871; was for some time (as Marquess of Lorne) M.P.; Governor-Gen, of Canada from 1878 to 1883; Gov of Windsor Castle, 1891-1914. Wrote a 1sfe of Palmerston. Suc-ceeded by Caller. 1892-1914. Wrote a /

ceeded his father in 1900.

**Regyll (George Douglas Campbell), Dwke of (1823-1900), a prominent statesman, scientist, and writer, and a member of several Liberal Governments, down to 1881, when he declined to follow Mr. Gladstone on the Home Rule question. His books I he Keign of Law and The Philosophy of Relay rank high amongst books of their class.

**Regyll, Marquis of (Archibald Campbell) (1598-1651), was a strong supporter of Charles I. m the Givil War, and opposed Cromwell to the last, but his open support of the Covenanters and other acts caused him to be impeached in 1667, when he

acts caused him to be impeached in 1661, when he

acts caused him to be impeached in 1661, when he was found guilty and executed.

**Irlosto, Ludovico (1474-153), the author of Orlando Furroso, was one of the most celebrated of the Italian poets. In addition to his famous epic he wrote many comedies, satires and poems.

Aristides (or **Aristides*), a Greek writer, and founder of the school of prose rouance; flourished in the and century B.C. His **Missian Tales are among the most celebrated works of fiction.

Aristides, the Athenian general. was of noble-

among the most celebrated works of nction.

Aristdea, the Athenian general, was of noble descent, and first achieved fame at the battle of Marathon, 400 B.C. He was renowned no less for his valour than for his scrupulous honesty and a desire valour than for his scrupulous honesty and a desire to do justice to others; hence he was surnamed "the Just." He took part in many campaigns and missions, was sometimes high in favour, at other times suffered banishment, but he never swerred from the path of duty.

Aristippus (424-356 B.C.) founded the Cyrenaic school of philosophy, which taught that sensual pleasure was the only happiness. He was a native of Cyrene, in Africa, but became a pupil of Socrates, and settled in Athens.

Aristophanes (448-380 B.C.) was one of the

foremost Athenian play-writers and the greatest of the Greek comic poets. He is said to have composed fifty-four plays in all. Eleven of these only have survived. They are full of satire, and deal unsparingly with the people and institutions of his time.

**Example 1.5 **Example 1.

on undertook the education of Alexander, afterwards on uncertoot me education of Alexander, alterwards known as Alexander the Great. Subsequently at Athens he established the Lyceum and founded the Peripatent school of philosophy, which has had great influence upon the expansion of thought.

repretents cannot be impossibly, which has na great influence upon the expansion of thought, as a native of Preston, and in early life a barber and travelling hairdealer. Becoming interested in mechanical problems, he sot himself the task of inventing an improved cotton-spinning machine. Hargreave's spinning-jenny was then the leading machine, but the yarn it produced could only he used for warp; it was not compact enough for weft. Arkwright therefore experimented until by adopting an arrangement of rollers that moved with different velocities, he succeeded in perfecting his 'spinning-frame,' which accomplished the desired end. He took out his first patent in 1700, and, entering into partnership with Mr. Jedediah Strutt, of Derly, became a manufacturer on a large scale, in 1771 establishing the first spinning-inull worked by water-power. He was kinghed in 1786. knighted in 1786.

Armitage, Edward (1817-1896), a well-known R.A. and historical painter, who contributed some of the frescoes in the Houses of Parliament, and achieved a considerable reputation as a painter of battle scenes.

Armstead, H. H. (1828-1928), one of the most dis-tinguished of modern British sculptors, was the sculptor of the south and east sides of the podium of the Albert Memorial, of external decorative work at

the America Memoria, or external decorative work at the Colonial Offices, and a vast number of other works in marble, wood, brouze, and silver. Was elected R.A. in 1769.

Lemstrong. Lord (1810-1900), was a solicitor at Newcastle, when his attention was drawn to certain mechanical problems, and he devoted himself to the invention of the hydraulic crane and other machinery for the better utilisation of water wower. Turner the invention of the hydraulic crane and other machinery for the better utilisation of water power. During the Crimean War he studied the subject of guns, and produced his faintus. "Armstrong gun," the buggest that had up to that time been constructed. He introduced many improvements in gun constructed, and in 1850 was appointed engineer of Riffe and Oralnance, and received the honour of knighthood. Later his immense works at Flywick be ame the chief establishment in this country for the manufacture of guns and ships of war. He was raised to the peersure in 1889.

tacture of guiss and snips of war. Are was raised to the peerage in 1897.

Arne, Dr. J. A. (170-1778), an English musical composer of considerable ment and of great popu-larity in his day. He composed numerous ballad operas, and at Druy Laue, Covent Garden, and Vauxhall organised the chief performances for long

vauxhall organised the chief performances fur long periods. His best known opera was "Artaxerxes," and his most popular songs were "Rule, Britanna!" and "Where the Bee Suck."

Incld, Sir Edwin [1832-1094], educated at University College, Coxford, where he gained the Newdigate Prize in 1852; was at the Government Sanscrit College, Poona, for some years, and, returning to England in 1851, became connected with the *Datis Telegraphs editional staff He was the

turning to England in 1851, became connected with
the Daily Talepurph's editional staff. He was the
author of the "Light of Asia" and numerous other
poems, and wrote several hooks of travel that were
very popular. Created K.C.I.E.

Arnold, Matthew (1822-1828), son of Dr. Thomas
Arnold, achieved a high reputation as poet and
critic. In 1857 he was appointed Professor of Poetry
at Oxford, where in 1842 he had word the Newdigate
Prize, and in 1845 had been elected Fellow of Oriel.
For some years filled the position of Government
Inspector of Education. As the propounder of the
principles of "sweciness and light," as well as by his
graceful verse, he secured a high place amongst the
literary men of the Victorian era.

Arnold, Thomas, D.D. (1795-1849), headmaster of Rugby from 1828 to his death. His influence at Rugby was such as to give that institution a supreme position among English public schools. A man of intense spiritual feeling, of a sympathetic and lovable nature, yet possessed of all the necessary attributes of scholarship, he was greatly esteemed and venerated. His "Lectures on Modern History," delivered at Oxford, were of great nerth, and were subsequently published. He was the author also of a History of Rome.

quently published. He was the author also of a History of Rome.

**Encid-Forster, The Rt. Hon. H. O., M.P. (1855-1909), grandson of Dr. Arnold, and adopted son of the late Rt. Hon. W. E. Forster, was educated at of the late Rt. Hon, W. E. Forster, was educated at Rugby and Oxford, and for some years was a director of Cassell & Co., Ltd. Was elected for West Belfast in 1902, and from the first showed a keen interest in the public services. Was appointed Parlamentary Secretary to the Admiralty in Mr. Balfour's Ministry in 1905, and became Secretary for War in 1903. Was the author of numerous works bearing expublic guestions. bearing on public questions. In 1907 published Letters on Socialism.

Letters on Sociation.

Arnott, Neil (1988-1874), was a native of Arbroath, and, after studying at Aberdeen, settled in London and acquired Lime as a doctor and practical scientist. He was a prolific writer on Natural Science, and invented many useful appliances.

Arrol, Sir William (1839-1973), the well-known contractor and engineer, whose firm built the Tay, Forth, and London Tower Bridges. Originally a piecer in a cotton-nill, and later a working blacksmith. He was knighted in 1890, and represented South Ayrshire from 1895 to 1906, as a Liberal Unionist, retiring at the latter date from Parliamentary life. mentary life.

AFSANGEROB was the name borne by several ancient Persian kings, some of whom achieved great distinction. The first Artaxerxes was the son of Xerxes, and reigned from 405 B.C. for 40 years; he was succeeded by the second Artaxerxes, who was the son of Darius II., and reigned 45 years. The last to bear the name of Artaxerxes was the founder of the Sessible dynasty. A Dage of the Sessible dynasty.

The last to bear the name of Artaxerxes was the founder of the Sassanidae dynasty, A.D. 223.

Artemus Ward. (See Browne, C. F.)

Arthur, a famous Brush clin than and supposed king, who is stated to have fourished in the 6th century, and around whose life many beautiful legends have been written, including Lord Tennyson's "Idyls of the King."

Arundel, Thomas, Archbishop of Cantarbury, in the regus of Richard II. and Henry II., previously Bishop of Ely and Archbishop of Vork, and for a time Lord Chair ellor. An active politician and bitter enemy of herey. and bitter enemy of heresy.

Ashbourne, Baron (1837-1913), a pronument poli-tical lawyer, who was Lord Chancellor of Ireland in four Conservative Governments.

Ashmole, Elias (1017 1692), founder of the Ashmolean Museum, Oxford, was a noted antiquary and astrologer, and a native of Lichfield.

Aske, Robert, the leader of the Pilgramage of

Grace, directed against the Reformation, was a man of power, and might have been a serious danger to Henry VIII, had he not accepted the king's pardon for himself and followers. Advantage was taken of a later rising, in which he had no share, to secure his arrest and execution in

Askew Anne 1737-1740, was one of the Protestant martyrs who was burned at the stake with three others in Smithheld. She was a Lincolnshire lady who clung to the Protestant faith, despite the fact that her husband and father were avowed

Romanists.

Askwith, Sir George Ranken, K.C.B. (b. 1861), appointed in 1011 Comptroller-General of the Commercial, Labour, and Statistical Departments of the mercian, Lanour, and Statistical Departments of the Board of Trade, having been for some years pre-viously engaged in arranging important trade, railway, shipping, and other disputes. Aspasia, an Ionian woman of great intellectual power, beauty, and influence, the companion of Pericles, was born at Miletus, but went to Athens and there bocame distinguished.

Asquith, The Right Hon. H. H., K.C., M.P. for least Fite since 1880 (b. 1852 at Morley in Yorkshire), Prime Minister and First Lord of the Treasury since 1908, was educated at the City of London School and Balliol College, Oxford; afterwards called to the Bar, entered Parliament in 1886 and in called to the Bar, entered Parliament in 1886 and in 1892 appointed Home Secretary. Chancellor of the Fxchequer 1905-8. His Premiership has been marked by a strong forward policy, of which the Parliament Bill abolishing the veto of the Lords, the Home Rule Bill, and the Welsh Church Bill are prominent examples. Assumed in addition to the Premiership the post of War Minister on the resignation of Col. Seely, March, 2014, relinquishing it to Lord Kitchener on the outbreak of war in the following August

following August.

Asser, John, a Welsh monk of the roth century, noted for having been tutor, friend and biographer of King Alfred. He was made bishop of Sherborne. Astbury, Samuel (1648-1743), was the uncle of Josiah Wedgwood, and towards the middle of the 18th century made great improvements in the pottery

manufacture at Burslem.

Astor, John Jacob (1963-1843), the founder of the Astor family of millionaires, was a native of Heidel-berg, and emigrating to America went out to the North-West, and began trading in furs, soon building

North-West, and began tracking in furs, soon building up a large fortune which he wisely invosted in New York real estate, which rapidly increased in value, enabling him to leave his son William £1,000,000, and £70,000 for the founding of a public library.

Astor. Hon. William Waldorf (b. 1828), is the son of the second John Jacob Astor, the American millionaire, but for many years has resided in this country, and become a naturalised Bruish subject. He is the author of several novels including \$forca and Pharagh's Parinters and Granary were has and Pharach's Danighter, and for many years Las owned the Paul Mail Gazette. From 1882 to 1885 was United States Minister to Italy. Has given £20,000 to Oxford University.

**Thanachas, St. (200-737), was Bishop of Alexandria and Primate of Egypt. He spent much of his time

in bitter theological controversy, and was condenned several times for his opinions, and finally driven from Alexandria; taking retuge in a desert, he wrote numerous letters in support of Christian doctrine, and under Emperor Julian was recalled to Alexandria. The Athanasian Creed is supposed to reflect his behef, but was probably not written by him

Athelstan (805-940), grandson of Alfred the Great, was crowned King of England in 925, and was the first ruler of all England.

first ruier of all England.

**Atterbury. Francis (1662-1732), a noted churchman and Jacobite, who for refusing to sign the declaration of allegiance to George I. and other acts was condemned to perpetual banishment.

Attlla (400-423). King of the Huns, was a warlike leader, who achieved many conquests over the Roman forces, committing great ravages and laying large tracts of country waste. He marched through Germany and Gaul, and died achs was pre-arrain for

large tracts of country waste. He marched through Germany and Gaul, and died as he was preparing for another invasion of Italy.

Rubar, D. F. E. (1982-1871), was a distinguished French composer of light operas. Many of his works are still performed, such as "Masaniello," "The Diamond." "Le Domino Noir," and "Les

works are sun, performent, such as "masament," Fra Diavolo, "Le Domino Noir," and "Les Diamants de la Couronne," etc.

Audley, Thomas, Lord Chencellor of England, temp. Henry VIII. Previously Speaker of the House of Commons (1729), and Lord Keeper (1723) in succession to Sir Thomas More.

Audubon, John James (1721-1871), we an artist and ornithologist of great ability, who published the Birds of America, as the result of fifteen years' enthusiastic labour. It is a colossal work of ten volumes, in which all the figures are depicted life-size.

Augustine (254-439) was Bishop of Hippo for over thirty years. He was born in Africa, but went to Rome, and under the influence of St. Ambrose became deeply religious, writing much upon doctrinal subjects, and his works are held in great esteem.

Augustine, St., was the missionary monk who was

Augustine, St., was the missionary monk who was sent to Britam by Gregory the Great in 597. He succeeded in converting King Ethelbert, after which

he made good progress with the people generally, and became the first Archivishop of Canterbury. He died in 604.

Augustus, Calus Octavianus (63 B.C.-14 A.D.), was the first Emperor of Rome, succeeded Julius Caesar. After a triumvirate of twelve years, in which he was associated with Mark Antony and Lepidus, he became supreme ruler and for forty-five years exercised a beneficent and powerful sway. He was a devoted putron of Horace and Virgil. The Augustan Age is still held among the most memor-able in the history of letters.

Aurelian, Lucius Claudius Domitius (212-275). a distinguished general under Claudius II., whom he succreded as Emperor. Originally a private soldier, he rose to the highest possible position, and was called the "Restore of the Roman Empire."

Aurelius, Marcus Antoninus (121-186), Emperor

of Rome, a man of great intellectual power, and a disciple of the Stoics. He died while attempting to suppress a rebellion fomented by his wife, Faustina.

Aurungzib, the last of the Great Moguls, Emperors of Hindustan; succeeded his father Slah Jehan in 1658 and teigned until his death in 1707. He was a ruler of ability, and greatly extended his empire by conquest, but his zeal for Malhomedanism aroused the hatred of the Hindus, and when he died the disruption of

the vast Mogul territory followed rapidly.

Austen, Jane (1775-187), an English novelist regarded by many as the ablest female fiction writer that England has produced. Lord Macaulay, Scott, and other critics have awarded her works the

Scott, and other critics have awarded net work and highest possible praise.

Bustin. Alfred (1835-193). Poet Laureate, was educated at London University, and in 1862 published a satire called The Season, which contained some vigorous verse of undoubted promise. For some years he wis connected with The Standard as leader writer, and also wrote for the Quarterly Promote. Between 1800 and his death some half-Remew. Between 1870 and his death some halfdozen volumes of poems were issued by him, all displaying a deep love of nature, and no little of the true poetic feeling. He was appointed Laureate in 1856, after the office had been vacant four vears

years. Autolyeus, a Greek astronomer of the 4th century, B.C., whose writings on the fixed stars and the revolving sphere were valuable contributions to astronomical science.

astronomical science.

Avebury, Rt. Hon. Lord (1834-1913), banker, scientist, and politician. Best known to the world under the name he hore until 1900 of Sir John Lubbock. His writings cover a considerable field, and are marked by a keen observation of natural pnenomena, and animal and vegetable life, and his type, we may a superstating and hard. style is at once sympathetic and lucid. ember of the House of Commons he was identified with several important legislative measures, and had the credit of securing the statutery observance of

Bank Holidays,

Aytoun, William Edmonstone (1813-1865),
Collaborated with Sir Theodore Martin in the
"Bon Gaultier" Ballads, and was the author of
"Lays of the Scottish Cavaliers." He was a native
of Edinburgh.

Babbage, Charles, eminent mathematician (1797-1871). Was Professor of Mathematics at the University of Cambridge, and attracted much attention by inventing a calculating machine, which, however, only partially realised its designer's aims, and never came into use. His works on Legerithms and On the Economy of Manufactures and Machinery were highly valued, and his autobiographical Parsages from the Jife of a Philosopher contains much that is interesting.

Baber (1483-1530), founder of the Mogul dynasty which ruled Northern India for three centuries, and a descendant of Tameriane.

a descendant of Tamerlane.

Babington, Anthony, a Derbyshire Roman Catholic who headed a conspiracy against the life of

Queen Elizabeth, and was arrested and executed at Tyburn in 1586.

Tyburn in 1986.

Bach, Johann Bebastian (1685-1750), one of Germany's greatest musical composers, his "Passion Music," "Freludes and Fugues," and other compositions being unrivalled in their class.

Bacon, Francis, 1.ord Verulam, and Viscount St. Albans (1561-1626), was one of the greatest of Engish philosophers and statemen, who was Attorney-General to Elizabeth, and ur-ler James I. became Lord Chancellor. His political career was tarnished by certain acts of corruption, for which he can'd the nenalty, but his writings were marked by tarnined by cream acts of corruption, for which paid the penalty, but his writings were marked by keen insight, brills may of language, and a depth of thought which place them in the first rank of philosophical interature. His Now um Oreanum and his

Estays are splended monuments of learning and wisdon. eminence, to whom we owe some notable monu-ments, including those to Lord Chatham in Westminster Abbey and the Guildhall, and that of Dr. Johnson in St Paul's.

Bacon, Bir Nicolas (1510-1570), was the father of Francis Bacon, and filled the position of Lord Keeper to Queen Ehzabeth with much distinction.

Bacon, Roger (1214-124), generally alluded to as "Frar" Bacon, was a man of remarkable gitts. The invention of gumpowder has been ascribed to him, and he is also said to have invented the air-pump. and was acquainted with the principle of the telescope For a long time he was looked upon as an ad s id only in modern times have his discoveries been rightly appreciated

Baden-Powell, Lieut.-Gen. Sir Baden F. S.,

C.B. CVO ib 18571 art uned great popularity by his brilliant defent of Mateking during the Boca After the war he organised the South African Cc alm · Inspector-General of Cavalry 1903 7. Founded the Boy Scouts organisation in

Baffin, William (1564-1623), was a distinguished harm, with an issquence who in although see the bay which in the continuous to British North America from G enland, and bears his name.

After A merical from the contact, and the arms manner. He was killed at the see to Of Onnue.

Bagehot. Walter (1/20-1877), was editor of the from 1858 to his death, and made a great reputation as a writer on financial subjects.

Bailhache, The Hon. Sir C. M., Judge of the High Court since 1913 to 1850. I ducated City of London School and London University.

Balley, Sir Aba (b. 1804), a Rand millionaire He presented the Salvation Army with an estate of 80 000 acres in South Airica. He was born in Cape Colony and fought in the Boer War with the South African Light Horse, which force he largely helpert to finance Is proud to be known as one of Kruger's "traitors," who was released from prison

Kruger's "traitors," who was released from prison on payment of a fine of \(\frac{1}{2},000 \). **Bailey**, P. J. (1830 1003), author of \(Frans, a poem with that through near editions. The peen was published who i the author was twenty-three, but his future work that not fulfil his early promise. **Baille, Joanna** (1902-184), a Scotch poetess and

dramatist of considerable ment, who, in her day, was highly extolled. Her dramas are marked by much inging extoned. Her thanks are marked by much beauty of expression and noblifty of thought, but the Walter Scott gre. She lived in Hamp and for over half a century.

Baily, E. H. (1788-1857), a sculptor of many successful monuments and sculptore figures. He

Baily, Francis (1774-1844), an astronomer, and one of the promoters of the Astronomical Society, who devoted hunself with great assiduity and success to the various branches of his favonite science.

Bain, Alexander (1618-1903), a psychologist of great attainments, who wrote The Senses and the

Intellect and The Emotions and the Will, two books which give him a high position as an original thinker. He occupied the Chair of Logic in the University of Aberdeen for twenty years.

Balted, Sir David (1757-1820), a British general who served under Moore at Corunna and was commander of the form which control the Chair of the Chair

served under Moore at Corunna and was commander of the force which captured Cape Colony in 1806.

Baker, Sir Banjamin (180-1907), in eminent engineer who was connected with some of the most notable enterprises of modern times. He was consulting engineer to the Egyptian Covernment for the Assouan Dain, was joint engineer with Sir John Fowler of the Forth Bridge, and engineer of the Central London Tube Railway.

Baker, Sir Samuel Whita (1801-1803), a traveller and author of special note, whose books are full of charm and whose services as an explorer will long be rememb red. In the "fifties" he spent much time in Ceylon, and wrote two interesting books on the Island; in the "sixties" he set out to explore Central Africa, and a herved the discovery of Lake Albert Nyanza. He was kunghted in 1806. In 1806, the was in command of a unitary expectation to he was in command of a inhitary expedition to Central Africa for the suppression of the slave trade, and the khedive made him Governor-General of the

and the khedive made him Governor-Leneral of the new territory for four years at a salary of £10,00 a year, being succeeded by General Gordon.

Bales, Michael William (1861-1870), the most popular composer of English ballad operas of the not returny His "Bohemian Gri," "Siege of Rochelle," "Satanella," and "The Rose of Castille". are among the most notable of his compositions. He

had a fine gift of melody.

Balfour, Rt. Hon. Arthur James, M.P.
(b. 1848), was educated at both and Cambridge.
He entered Parliament in 1874, and for a time was inivate secretary to his uncle, Lord Salisburg Fourth Party "; but became Prime Munster About 1880 be obtained son of what was known as the was not until Lord Salesbur in 1885, and made Mr Balfe r President of the Loca Government Board, that he be ded a a serious politician Later, he was Chief Secretary a serious politician. Later, he was carer secretary for Ireland, In 180 he become First Lord of the Treasury, a position which he held also under Lord. Salisbury's next Government in 1805 and onword. On Lord Salisbury's resignation in 1902, Mr. Baifeur, assumed the post of Princ Minister. Politicis and the last. which he held antil the clos

gave place to a Liberal Government under Sir H Campbell-Bannerum. I sing his Manchester seat at the General Flection in the carly days of 1306, he was subsequently returned at a by-election for the City of London, and Leader of the Opposition in the House of Commons until Nov. 8, 1011, when he resigned that post. Among his published works the Pefinee of Philosophic Deubt and Frinderson, of Relief are the most notable. President of the British Association in 1904; debred Romane Lecture in 1900 on "Criticism and Beauty"; Gifford Lecturer, Clasgow Univ., 103-14.

Baifour, Rt. Hon. Gerald W. (b. 1853), brother of the above, M.P. for Central Leeds, 1885-1906. Chief Sucretars for Ireland, 1895-1906; President Board of Trade, 1906-1905. Suffered defeat at the Common Floritum of 100. City of London, and Leader of the Opposition in the

General Election of 1006.

General Election of 1006.

Ballour of Burleigh, Lord (b. 1840), was Setary to the Board of Tride, and Section 100 Section of Social with a seat in the Cabinet between 1805 and 1903, resigning in the latter year because of disagreement with his colleagues on the l'iscal Policy proposals of Mr. Chamberlain.

Balloi, 181 John De, founder of Balliol College, Oxford (and father of John Balloi, the claimant to the Scotch throne), after an insuccessful attempt to overcome Sinton de Montfort, was condemned to certain neathers, and deed in exite in 1860.

certain penalties, and died in exile in 1269.

Baliol, John (1259-1314), competed with Robert Bruce for the Scottish throne, and Edward I, decided in his favour. Only regned four years, when Edward deposed him, committed him to the Tower, and finally bamshed him from the country. He rettred to Normandy. His son, Edward Baliol, recovered. his father's kingdom in 1332, and was upheld by Edward III. whilst very unpopular by reason of his having given up the south of Scotland to the English. He renounced his title and throne in 1356, and retired to England on an annuity.

Ball, John, the excommunicated priest who took a leading part in the Wat Tyler insurrection of 1381.

and was arrested and executed.

Ball, Bir R. S., LL.D., F.R.S. (1840-1913), a distinguished astronomer and mathematician, and Lowndean Professor of Astronomy and Geometry at

Lowndean Professor of Astronomy and Geometry at Cambridge. Wrote many books on astronomical subjects and was a popular lecturer. Knighted 1886. Balzac, Honoré de (1790-1890), one of the greatest of French novelists, and the author of over eighty novels, to which he gave the covering title of "La Comédie Humaine." His stories are faithful depictions of almost every phase of French life, and in character delimention he has never been excelled.

Bampton, John (1089-1751), an enument divine, who founded the Oxford Bampton divinity lectures

Bancroft, George (1800-1801), American Instor.an and statesman. Was secretary of the Navy in 1815, and in 1866 was Minister to London. His History of the United States is a monumental work, conceived in a value to policy and in 1866.

in a philosophic spart, and highly valued.

Bancroft. Richard (154-1670), a stern upholder of eccleusated rights and a hitter enemy of the Nou-conformists. Was Archbishop of Cauterbury from

contormists, Was Archbishop of Canterbury from foot to foto, and was largely responsible for the fext of the Authorised Version of the Bible.

Bancroft. Sir Squire (b. 1841), one of the best known actors and managers of the later Victorian period. Managed the old Prince of Wales's theatre in London, in conjunction with Marie. Witten (Lady Bancroft), for many years, producing there the popular Robertsonian coincides; afterwards held the Hay-market Theatre for several years, and retired in 1885. Knighted in 1807.

Banfor, Bishop of. (See Williams.)
Banfin, John (1988-184), the most popular Irish novellist of his time, whose tales of the "O'Hara Family," writen in conjunction with his brother Michael, are realistic and powerful.

Michael, are realistic and powerful.

Banks, Sir Joseph (1743-1820) was president of the Royal Society for upwards of fortry years. As a naturalist he was one of the most emment men of his time, and encouraged science in every form. When Captam Cook made his voyage to the South Seas in 1768, Sir Joseph accompanied him for the purpose of observing the transit of Venus. He left very valuable botanical collections to the British Muscinu.

Barbara, St., an early Christian martyr, who lived in the 3rd century, and was beheaded by her own father, he being killed immediately afterwards by lightning. She is the patron sant of artillery.

Barbauld, Anna Lettlia (1743-1825), an industrious authoress, who write numerous acceptable and highly devotional works for young people, and

and highly devotional works for young people, and was a poetess of note in her time

Barbour, John (1316-1355), a Scottish divine and historian, whose poem, "The Bruce," is a composition well calculated to inspire national enthusiasm.

Barolay, Mrs. Florence L., authoress of many bright and popular novels, including The Rosary, and The Upac Tree. She is the wife of the Rev. C. Barolay, Vicar of Little Amwell.

and The Upar Tree. She is the wife of the Rev. C. Barclay, Vicar of Little Anwell.

Barham, Richard Haffig (1968-1848), a Kentishborn clergyman who gained a deserved reputation as a humorist by his Ingoldsby I egunds:

Barling-Gould, Rew. Babline (b. 1834) is the author of numerous novels, the majority of which have been highly successful, including John Herring. Count Royal, and Mehalah. Has also published many volumes of travel, folk-lore, farry tales, etc.

Barnaba, St., was a native of Cyprus, and is credited with having introduced Christianity into Antioch, and suffered martyrdom AD. 6t.

Barnard, Lady Anne (1750-1863), was the eldest duughter of James Lindsay, fifth Earl of Balcarres. Her "Auld Robin Gray," one of the most tender of our ballads of humble life, was written when she was a girl of twenty-two, published anonymously, and assumed to be an ancient plece. She revealed the

secret of its authorship in a letter (8th July, 1823) to Sir Walter Scott.

Barnardo, Dr. T. J. (1845-1905), the founder of the well-known homes for orphan-waifs, dor some forty years devoted himself to the protection, education, and advancement of destitute children. At the time of his death he controlled over a hundred homes, and left in full working organisation an emigration scheme

by which boys are regularly drafted out to Canada.

Barnato, Barnett Issaes (1832-1897), a South
African diamond magnate, who by a few lucky
strokes lifted himself from poverty to affluence.

Returning to England broken in health he leaped

into the sea and was drowned.

Barnes, William (1800-1880), clergyman and poet who gained a high reputation for his "Poems of Rural Life in the Dorset Dialect," which revealed

sura Lue in the Dorset Dialect," which revealed true poetic qualities and much quant humour.

Barnum, Phineas T. (1810-1891, was America's most famous showman, the exhibitor of "Tom Thumb," the impressing of the Jenny Lind American tour, and originator of Barnum and Bailey's "Greatest Show on Earth."

Barras, Paul F. J. M., Comte de (1755-1790), a prominent actor in the first French Revolution One of the men who voted for the execution of the King, and later on was a bitter enemy of Robespierre.

Barrett, Lawrence (1838-1891). American actor-manager, associated with Fdwin Booth for a lengthy

period, and produced many plays with success.

Barrett, Wilson (1846-1904), a favourite Figlish actor of the romanue school. He was also a dramatic author of some pretensions, and had a long career of popularity, making much money out of the "Silver King" and other plays of a sensational case.

Barrie, Sir J. M., Bart, (b. 1890, at Kirriemuir);

atter passing through Edinburgh University, entered journalism, and later published a series of essays and journallsm, and later published a series of essays and sketches which at once made him popular. He followed these up with some very clever novels, including all 'imdow in Thrinms, The little Minister, Sentimental Tomme, etc., and in more recent years has achieved considerable success as a dramatist, "Peter Pan" being amongst his most popular plays. Barron, Major Gen. Sir Hu, K.C.M.G., Governor of Western Australia since rot3 and former Governor of Tasmania (b. 1850). Was for some years chief instructor at Shoeburn ness.

instructor at Shoebury ness.

Barrow, Isana (162)-1677, a famous divine, mathematician, Greek scholar, and tutor of Sir Isana.

Newton. His "Sermons," are amongst the finest in the language. He was burned in Westumster.

Abbey, and was for many years Vice-Chancellor of Cambridge University.

Barrow, Sir John (1704-1848), Secretary to the Admiralty from 1804 to 1848, was a native of Ulver-stone. He was a prolific writer of Naval Biographies, and his Autobiography, published at the age of 83,

is a book of valuable remanscences.

is a book of valuable reminiscences.

Barry, Bir Charles (1795-1860), the architect of the present Houses of Parliament, which occupied twenty years in building, one of the finest specimens of 17th century architecture. He was knighted in 1852, and was buried in Westiminster Abbey.

Barry, Bir John Wolfe, K.C. B. (b. 1837), the eniment engineer, has designed and carried out some of the most prominent undertakings of the time, including Barry Dock, Tower Bridge, Blackfriars Railway Bridge, and Kew Bridge.

Barry, Canon W. F. (b. 1840), rector of St. Peter's, Leanington, and author of "The New Antigone" (1897) and other romantic novels of later date. His books on Nowman and Renan rank high in Roman Catholle literature

Catholic literature

Bartolommeo, Fra (1460-1517), the distinguished Florentine painter and friend of Savonarola, at whose death he became a monk. Examples of his work are in the National Gallery and the Louvie,

but the finest are at Florence.

Bartolozzi, Francisco (1730 1815), a Florentine engraver who came to England in 1764, and for many years was engaged upon engravings, of which he produced an enormous number, many of them of great artistic ment and highly valued by collectors

to-day. Was a member of the British Royal Academy, and died in I.iston.

Barton, Rt. Hon. Bir E. (b. 1840), is a native of Sydney, and became a member of the New South Wales Parliament in 1890. Was Speaker from 1894 to 1897. Afterwards became Attorney-General. Devoted himself earnestly for many years to the cause of Federation, and was Fremier of the first Australian Commonwealth Ministry, 1901-1903, becoming in the latter year Judge of the High Federal Court.

tional diarist and painter, of Russian parentage, whose Memoirs, published in Paris, caused considerable sensation by their remarkably vivid reve-lations of an abnormal temperament.

Basil the Great was Bishop of Carsarea in the

Basil the Great was Bislop of Crearea in the ath century, and a viroug opponent of Aranism.

Bath and Wells, Bishop of. (See Kannion.)

Battenberg, Prince Henry (1882-1895), busband of Princess Beatrico, youngest daughter of Queen victoria. Was stricken with fever while on an expedition in Ashauti in 1875, and died at sea.

Battenberg, Admiral Prince Louis of (1. 1854), is a son of Frince Alexander of Hesse, and married to his cousin, Princess Victoria, daughter of Princess Alice of England and the Grand Duke of Hesse. Has had a successful career in the British Navy, which he entered in 1868. Appointed to the which he entered in 1868. Appointed to the command of the Second Craiser Squadron in 1904; second in command Mcditerranean, 1926; commander-in-chief Atlantic Fleet, 1008. First Sea Lord, 1912.

Baur, Ferdinand (1792-1860), a German theologian of great enimence and influence, the founder of "The New Tubingen School of Theology."

Baxter, Richard (1015-1601), a great Noncon-formust, remarkable for the ability and holdness of

of this writings. He was constantly persecuted, and was ill-treated by Judge Jettreys. Batter's Saint's Everlasting Rest is a masterpiece.

Bayard, Plerre du Terrail, Chevalier de (1475-1524), a French knight of exemplary conduct and remarkable for his chivalry. Fell at the Battle of Sesia, and was named "Le Chevalier sans peur extra remarkable."

et sans reproche

Bayliss, Sir Wyke (1835-1906), achieved much distinction in connection with church decoration and religious art, and was elected President of the Royal

Society of British Ariest an 1888. Kinghted in 1807.

Bazaine, François (1817 1888), the French
general who commanded the army of the Rhine in
the Franço-Cernian War of 1870-1871, and after
Sedan retired to Metz, was under siege there
with all his troops for some months, and ultimately with an instroops for some months, and unmately surrendered to the enemy. Later he was condemned to death by court-martal, but the sentence was com-muted to life unprisonment. Subsequently he escaped and lived in Midral.

Beaconsfield, Benjamin Disraell, Earl of (1804-1881), statesm in and novelist. Was the son of [3604-7801], Statesin it and november. We are some of the same Darsard, and after the being privately educated, passed some time in a lawver office, and then took to authorship, meeting with but indifferent success until he published bis Frear Gree, which was so sudacously clever that it at once made him a name. He was then only twenty-one. Drifting into Society he was made much of because of his bulbance, and after a few more essays in novel writing he entered Parliament in 183, and not long afterwards became a prominent and picturesque figure in that assembly. He alted himself with the Tory party, and ultimately became one of its chief leaders. He was made frommer in 1846 on the retirement of Lord was made Fromer in 1808 on the retirement of Lord Derby, and again in 1824, retaining office until 1880, dying the following year. He foreign policy, particularly on the Eastern question, was aggressive. He was raised to the peerage in 1870. Poason, David (1404-1340), was the leader of the anti-Reformation party in Scotland, and held the important position of Cardinal and Archibahop of 54 Andrew He was necessingly.

St. Andrews. He was assassinated.

Ji. attle, James (1735-1803), a Scottish poet of genius, "ho wrote "The Minstrel," and was also author of numerous essays and philosophical writings which

were much esteemed and gained him a pension of £200 ayear from George III.

Beatty, Rear Admi. Bir David, K.C.B. (b. 1871).
Commander of the First Battle Cruiser Squadron since 1972. Formerly Naval Adviser to the Army Council; served with distinction in the Sudan and Chima. On Aug. 28, 1914, made a dash with his squadron into a portion of the German fleet in the Heligoland Biglit, sinking two German crusers and two destroyers, and seriously damaging another.

Beautort, Cardinal (1370-1447), was half-brother of Henry IV, and four times Lord Chincellor. He wielded great power, and was a forceful factor in the wielded great types, and was a forceful factor in the

wielded great power, and was a forceful factor in the political movements of the time. Was successively Bishop of Lincoln and Winchester.

Bisnop of Lincoln and Winchester.

Beauharmais, Eugène de (1781-1824), son of Josephine Beauharmais, who afterwards became the wife of Napoleon. Napoleon made him his Aide-de-Camp, adopted him, and showed him great favour.

Camp, adopted ann, and astowed nim great rayour.

Beaumont, Admi. Sir Lewis A. (b. 1847), has held several important commands in the Navy, which he entered in 1850. Was Director of Naval Intelligence 1864-1869, and in 1904 was appointed commander-in-chief at Devonport. In 1905 sat on the North Sea Inquiry. Retired 1912.

Beaumont and Fletcher, contemporary dramatists with Shakespeare, and joint authors of many

tists with Shakespeare, and joint authors of many plays, including "The Maid's Tragedy" and "Philaster" Beaumont (sole author of "The Faithful Shepherdess") was buried in Westiminster Abbey; Hetcher, who died in 1625, was interred in St. Savigor's, Southwark.

Babal, Fordinand Aug. (1840-1913), the foremost German Socialist leader, a native of Cologne, and a member of the North German Parliament of 1867. In 1872 was condemned to two years' imprisonment for

1872 was condemned to two years' imprisonment for treason, and was imprisoned for aspersing the Linperor A noted political organiser.

Beokford, William 1760-1844, the eccentric author of Falkek. Spent his later years as a recluse on his estate at Fouthill, on which be expended £272,000. His lather, also named William, served at Lord Mayor of London in 1762 and 1790.

Bede, "The Venerable" (673-735), a monk of great influence and ability whose historical works cover a guest range and are valuable in the outline they give of the early history of the results history of the results history of the results history of the sale history of history of

they give of the early history of this country,

Beecham, Thomas is 1870, musical conductor
and operatic impresario. Educated at Rossail and
Wadhan College, Oxford Founder of the Beecham
Orchestra. Has done much for operatic art.

Orchesta. Has done much for operatic art.

Bescher, Henry Ward (1813-1887), an eminent
American preacher and lecturer, whose church at Brooklyn was for many years the most popular in the United States Brother of Mrs. H. B. Stowe. Beachey, Frederick William (1795-1856), an Arctic explorer who accompanied Franklin on an

expedition in 1818, and made voyages on his own account subsequently. Beechey Island in Melville Sound was named after him.

Beerbohm, Max (b. 1872), was educated at Charter-house and Merton College, Oxford Is a brilliant critic and carrecturist, who has contributed largely to

the Saturday Review.

Beethoven, Ludwig van (1770-1827), born at Bonn, died in Vienna. One of the kings of musical Bonn, died in Vienna. One of the sings of musical composition, whose symphones, sonatas, overtures and operas all reach the highest standard of musical imagination. He received lessons from Mozart.

Begbie, Haroid (b. 1871), has won his way in journalism and literature by a variety of good work, from himorons. "By the Way" jottings for the Globe to confidence in page 1889.

Behring, Emil von (h 1853), a distinguished German scientist, Professor at Strasburg; discoverer of an anti-toxin for diplitheria, and claimant to a cure

for phases of tuberculosis

Behring, Vitus (1680-1741), was a Danish navigator who entered the Russian service and in 1728 dis-covered what is called Behring's Strait, afterwards

being wrecked on Beltring's Island, where he died.

Belt, Alfred (1653-1900), a South African magnate
of great wealth, made his way to South Africa in
1875, associated himself with diamond mining.

made a vast fortune. Was a man of great force of character and public spirit, and a munificent patron of imperial and charitable institutions

Beke, Charles T. (1800 1874), a distinguished diplo-matist and traveller, who spent many years in Abyssinia, afterwards publishing the result of his researches, which were of great value. He also visited and wrote upon the Holy Land. Was British Consul in Saxony 1836-1838.

Belisarius (505-565), a famous Roman general under Justiman. His deteats of the Goths and Vandals, and

JUSTIMAN. His defeats of the Gollis and Vandais, and of the Persans, were great achievements.

Bell, Alexander Graham (I. 1847 in Edinburgh). Went to America in 1870, and became Professor of Physiology in Boston University. In 1876 he exhibited an invention which was developed must telephone as we now know it. He also invented the photophone, and has devoted much attention to the improvement of the education of the deaf

Bell, Andrew (1753-1839), was horn at St. Andrews, and was a highly successful educationist. While superintendent of an orphanage school at Madras, no introduced the system of monitor assistants which

was afterwards maversally adopted

Bell, C. F. Moberley (1847-1911), was from 1865 to 1800 Times correspondent in Fgypt, and contributed to the leading journal a succession of brilliant letters. Coming to England he became assistant manager and later manager of the paper, and from 1998 was managing director. His books on Lgyptian questions were of great value at a critical period.

bell, Bir Charles (1774-1842), an emment anatomist to whom we owe the discovery of the distinct functions of the sensory and motor nerves. His Bridgewater treatise on the Hand is well known.

- Bell, Sir Hugh, Bart, ib 1845), in maging director of Bell Brother, Limited, iron and steel manufactured, Middlesbr Servisident of the Iron far Middleshr SPresident of the Iron and Steel Institute in 1007. Unsuccessfully contested the City of London in opposition to Mr. Balfonr in 2010. His wife, Lady Bell, is a written of some note, and for her book. At the Works, published in 1907.
- Bell, Richard (b. 1850), was M.P. for Derby from 1900 to 1910, and General Secretary of the Analysmated Railway Servants from 1807 to 1900. Took a mated Railway Servants from 1897 to 1909. Took a prominent part in the dispute between the railway companies and their men in 1907, materially helping matters to a settlement. Now Unemployment Insurance Officer to Board of Trade.

ance Omeer to hoard of 1 rade.

Bellini, Gentile (1421-1508), a celebrated Venetian painter, whose "Preaching of St. Mark at Alexanders" in St. Marks. College, Venice, is one of the edge of the of t

three in the National of mery, are of great impursance.
Bellini, Yinoenzo (1686-1889), an Italian operatic,
composer of great popularity during the first half of
the 19th century. His "La Somanbula," "Norma,"
and "1 Puritain," are still frequently performed

anti-Frittaine, Ate Son requesting personned series and entertaining works, including the Bad Children Book of Beach, The Old Road, and Hills, and the Sec. Has published also valuable striles of Danton and Robesphere and has recently made a high reputation for a series of igorous war articles

Belson!, Giovanni B. (1778-1823), a renowned explorer of Egypt who settled in Fingland at the beginning of the 19th century. After a pregarious existence begin to turn his attention to hydraulic beginning of the roth century. After a pregarious existence began to turn his attention to hydraulic experiments, and went to Egypt with the view of getting the Government to sanctiou a scheme of his for raising the water of the Nile. He was then attracted to the study of Egyptian antiquities, and engaged in highly successful researches.

Benbow, Admiral (1653-1902), was commander of the British fleet in the West Indies iff 1902. His attempted capture of the French fleet was frustrated by the treachery of some of his officers, but even after he had lost his leg in the action he insisted on directing the operations on deck.

directing the operations on deck.

Benckendorff, Count (b. 1820). Russian Ambassador to Great Britain since 1904, and remembered m connection with the settlement of the Roshdest-

vensky Dogger Bank incident.

Benedict, Bir Julius (1804-1884), a composer of mark who came to England from Germany in of mark who came to England froh Germany m 1835, and for many years occupied a prominent position as conductor and composer. Annong his operas may be mentioned "The Lily of Killarney," "The Crusaders," and "The Gipsy's Warning." He was knighted in 1871.

Benedict, St. (480-543), built twelve monasteries, and founded the Order of the Benedictine Monks, at Monte Cassino, near Naples.

Bennett, Arnold (b. 1867), one of the ablest of our younger noveliets, whose stories of the Pottery Towns.

yanger novelist, whose stores of the Pottery Town, where he was brought up, are of high mert. The Old Wroes' Tale, Laylanger and Hitla Lessways are among his most successful effort. Its story The Life of Nath Nicklin was written for Pear's Annual for 1914. He has also written plays, including Milestones and The Great Adventure.

Bennett, James Gordon- (b. 1841), proprietor of the New York Herald, and a tamons yachtsman and motorist. The races for the Gordon-Bennett Cup were leading events in motor history a few years ago. Mr. Bemiett lives in Paris mainly. He sent out Stanley on the expedition which resulted in

years ago. Mr. Bemiett lives in Paris mainly. He sent out Stanley on the expection which resulted in the finding of Livingstone.

Bennett, Sir W. Sterndale (1846-1872), an English composer of eminence, who did much for the advancement of musical art in this country. Schumann pronounced him to be "the most ansical of all Englishmen." His Cartarias are among the liest produced in England, and include "The May Queen" and "The Woman of Samuria."

Benson, A. C. th. 18-25, pres. of Magdalene College, Camb., C.V.O. son of Archbistop Benson. Was joint editor with Lord Eisher of Onen Victors Letters (1967), and has written many charming boo of essays, including From a Crievie Window, The Upton Letters, 174 Homes of United.

Benson, Edward Frederic (b. 1867), one of c popular novelests, and an archeologist. It first novel, Podo, published in 1963, was the fettion sensation of the year, and has been followed up by a succession of elever stories. Dodo the Second was issued in the spring of 194.

Benson, Edward White (1805-1806), was head-master of Welhautton College in 1869, in 189 pecane Bisloop of Truo, and in 1882 was appointed Arch.

master of Wellangton College in 1859 In 1877 became Bishtop of Truro, and in 1882 was appointed Arch bishop of Canterbury. He was a Frelate of gre sincerity of purpose, and a great eccleslastic. Bentham, Jeremy (1748-1812), the founder of the school of political pinlosophy, the tenets of which were extended by John Stuart Mill. His works on Government, Usury, and The Principles of Morals and Politics, expound the Utilitarian system with great buildir.

great lucidity.

Bentinck, Lord George (1902-1848), a devoted Protectionist, who attracted much attention by his uncompromising opposition to for Robert Peel. He died suddenly when his political career seemed full of promise, and his life was written by his friend, Benjamin Disraeli (Lord Beaconsfield).

Bengianin Direction (1962-1942), was an eminent scholar and critic, who filled the positions in succession of Master of Truitty College and Keeper of the Royal Library at St. James's. He was a great controversialist and critic, to whom Dean Swift paid handsome tribute in his Battle of the Books.

nandsome tribute in his Battle of the Rooks.

Beranger, the eminent French poet [1780-1827], was
the most popular song-writer that France has produced. His vongs were often written to serve some
passing political purpose, and were invariably in
harmony with popular sentiment.

Berantold, Count. Foreign Minister in the AustroHungarian Government. Succeeded the late Count
Assential to rose.

Acceptual in 7012.

Bereaford, Admiral Lord Charles (b. 1846), second son of the 4th Marquis of Waterford. Has had a varied and distinguished career. In 1875-1876 accompanied the late King, then Prince of Wales, on his visit to India. At the bombardment of Alexan-

dria did distinguished service in command of the Conder, and in 1884 was on Lord Wolseley's staff in the Nile Expedition. Later he commanded the Naval Brigade at the battles of Abu-Kie., Abu-Kri. and Metemmen; headed the expedition which rescued Sir Charles Wilson's party in the Safia; and became a Lord Commissioner of the Admiralty in became a Lord Commissioner of the Admiralty in 1886. Has been in Parlament, when not on active service, off and on since 1885, when he was returned for Marykhone. Lord Charles possesses three-medals for life-saving, and among his hierary works may be mentioned the Life and Times of Nelson, which was published as Pear's Annual for 1925. Succeeded to the command of the Channel Felset in

Joon, retiring from that position in 1995. M.P. for Portsmouth since 1910. Bergson, Henri Louis (b. Paus, 1859), a philosopher of bold ideas whose writings and lectures arouse much discussion. Professor at the College of France since 1900. Lectured in London in 1913, and

was Gifford Lecturer at Fednburgh in 1912.

Berkeley, Bishop (1664-1753), the propounder of the philosophy that the only things that are real are our ideas of what is presented to our senses. In support of this philosophy he wrote several works of great ingenuity of argument, chief amongst them being his Alexphron, or the Minute Philosopher.

Barlioz, Hector (1803-1809), was an ecceutric but highly endowed French musical composer who studied in Paris and Rome, and afterwards, settling in Pairs, devoted hinself to conducting and com-posing with much energy. He suffered hardsing and humiliation before he got a hearing, but his originality and his addent romanticlain fascinated such new as Paganin and Lisze, and though musical such inter as Faganini and Taszt, and though musical convention to a great extent presented the realisa-tion of his and, be tanks as one of the trees musical genuses, of the right century. His "Danna-tion de Faiset" and his "Romeo and Juhet" symplomy are his rose inspired productions. His wife was on Luglish actress, Miss Sinthoon, for whom he to med a romantic attachment while she was appearing in 5h ike-pearcan parts in Rome.

Bernadotte, Jean Baptiste (1764-1844), was a French commander of great distinction who served under Napoleon, and at 1910 was chosen herr to the throng of Sweden. In 1818 he succeeded as

Charles XI. and was a capable ruler.

Bernard, St. (10)7-1154), took an active part in promoting the crusade of 1140, and founded the

monastic order of the Bernar lines.

Bernhardt, Sarah (b. 1845), the most renowned tragedience of her time. Became a member of the Comedie Française after the Siege of Paris, and thereafter occupied a specially prominent position as an actress. Her first performance in London was in 1870. Among her most conspicuous successes are "Theodora," "beclow," and "La Tosca," while she also appeared as "Lamlet with distriction.

Bartle, Rt. Hon. Bir F. L. (b. 1844), entered the bereign Office in 1852, and held several important

Foreign Office in 1893, and field several important secretaryships. In roog we appointed Ambassidor to Italy, and an roog British Ambassador in Paris. Is brother to toe Lard or Ahingdon.

Bertillon, M. Alphonne (b. 1853), an ingenious Patistin police prefect, who invented the anthropo-metric method of criminal detection, which has been adopted extensively in Britain and other countries.

Besant, Mrs. Annie, President of the Theosophical Society since 1907, previously associated with Bradlaugh in secular inovements. Of late years has

Bradlaugh in secular inovements. Of late years has been actively engaged in theosophical and educational projects in India.

Beannt, Sir Watter (1836-1901), a probice author and novelist, whose first stories were written in collaboration with Mr. James Rice. The best known works which he wrote alone are All borts and Conditions of Alen, Dorothy Foster, and Armorelle of Lyonesse. He also wrote several critical and hiographical works, and a number of books an ancient London. He was knighted in 1895.

Beasemer, Sir Henry (1874-1898), an inventor who occarde rich and famous by his invention of the well-known process of converting east-iron direct into

known process of converting cast-iron direct into

steel. His invention entirely revolutionised the steel manufacture, greatly reducing cost of production and making it possible to utilise steel in many directions where previously iron only had been used. He was knighted in 1879. Many other inventions stand to his credit, but they are insignificant in comparison

ms crean, out mey are misgnmeant in comparison with that of the steel process, which will always remain identified with his name.

Bethmann-Hollwegt, Theobald won, Chancellor of the German Empire since 1999 (b. 1886). In directing the Imperial policy in regard to Moroccan and other foreign aftairs, he has shown a masterful canaging for artenting the additional directions.

moroccan and oner foreign affairs, he has shown a masterful capacity for attaining his object, despite much opposition and many entanglements.

Betty, William Henry (1791-1894), an Irish actor of singular precocity who as the "Infant Roscius" was faultors on the stage at cleven. For some years the enjoyed a marvellous success and made a considerable fortune, retning in 1824.

Beust, Count Frederick yon (1809-1886), was for a number of years Chancellor of the Austro-Hungarian Empire, retiring in 1871.

Bewick, Thomas (1753-1828), earned great fame as a wood engraver, and the works which he illustrated now tenhse high prices. All his works rem rekalde for breadth of treatment and fidelity to nature. Ils H. dore of British Oundripeds and History of British Bride, and his illustrated editions of Goldsmith Bearnal Fillage and Traveller, Ziop Rables, etc., are of great value

At the Product, etc., are of great value

BEZA, Theodore 1529-16-9, a Centevan reformer of
great influence, who prevailed upon the King of
Ravarre to ad the brench Protestants, and was
president of the symods of French Reformers at

imes and Rochelle.

Biddle, John (1975-1982), the founder of English Untarianism, was imprisoned for denial of the Trinty, but, released by Commell, the began to preach, and succeeded in establishing a Unitarian Chirch. I dere on he was again sent to gool, and

dued their George (1776-1841), physician, phil-anthropist, and philosopher. A Yorkshireman who-settled in London in 1864, and became the chief founder of Mechanics Institutes. The Birkbeck Institute was his own special work

Birmingham, Bishop of. (See Wakefield. Russell.)

Birmingham, G. A. See Hannay, The Rev. Canon.

Birrell, Rt. Hon. Augustine. K.C., M.P. (b. 1850), the accomplished author of Obster Pacta: entered Parliament in 1889. In addition to Obiter Picta, he has written a Life of Charlotte Bronte, Deta, he has written a Life of Charlotte Bronte, Men, Homen and Books, etc. He was semetime Professor of Law at University College, Lowlon, and became Education Miniter in the Government of Sir Henry Campbiell-Bannerman in 1915. In 1957 he succeeded Mr. Bryce as Secretary for Ireland. Bishop, Sir Henry Rowley (1986-1985), composer of many popular ballad operas and songs "Maid Marran," "Loy Manuering" and "The Miller and his Men," are his best known operas. He was also a very successful disportant and was

wis also a very successful glee-writer, and was the composer of "Home, Sweet Home." He was

knighted in 1842.

kinghted in 1842.

Bismarck, Prince Otto E. L. von (1815-1868), the most promient and capable of the German statesmen of the 19th century, entered the diplomate service in 1851, and filled positions in succession at Vienna, St. Petersburg, and Paris. In 1866 he was appointed Minister of Foreign Affairs, from which time dates the strong Bismarckian policy which was destined to achieve so much for Prussla. As Imperial Chancellor he may be said to have directed the destines of his country down to the death of the Emperor William in 1888, when the present Emperor began to assume a direct control, which Bismarck resented, and in 1890 the Pold pitot" was dropped, to use a figure of speech made incompale by one of Tenule's cartoons. Bismarck retired to his country estates and did not again interfere seriously in political and did not again interfere seriously in political affairs. Made Count in 1805 and Prince in 1871.

Germany has over two hundred monuments to him. He presided at the famous Berlin Conference of 1878. His son, Count Herbert von Bismarck (1849), was appointed German Foreign Minister in 1885, but, like his father before him, did not get on well with William II.

Bixet, Georgias (1838-1875), a French musical com-poser who gave the operatic stage several operas-iull of charming melody, and who in "Carmen" achieved one of the loading operatic triumphs of the

achieved one of the loading operatic triumphs of the latter half of the 19th century.

Björnsen, Björnstjerne, the Norwegian poet, dramatist, and novelst (1832-2910), is one of the great names in modern European literature, his poems, plays, and stories being marked by a strong intellectuality and a rich inagination. Many of his works

black, William (1841-1868), an English novelis, of great popularly in his day. His best novels are: A Danghter of Heth, Madcap Violet, Kumeny, and A Princers of Thisk.

Blackle, John Stuart (1809-1805), an eminent and outspoken Scottish writer, philologist, and poet; Professor of Greek at Edinburgh, 1852-1882.

Professor of Greek at Eduburgh, 1852-1862.

Blackmore, Richard Doddridge (1895-1900), a novelist who in 1860 made a great reputation with his romantic story of 10 rana Bonn.

Blackstone, Sir William (1723-1780), was a justice of the Court of Common Pleas. His great work, Commentaries on the Laws of England, became one of the British classics.

Blair, Robert (1700-1745), a noted Scottish poet, whose poem, "The Grave," entitles him to a place in all collections of Bruish poetry.

Blair, Robert (1803-1651), a great English naval

Blake, Robert (1508-1657), a great English naval commander, who distinguished filmself by repeated defeats of the Ditch and the capture of the plate-flect of Spain. Ho was buried in Westminster Abbey, with a magnificent public funeral; but his remains were removed therefrom, with those of other Commonwealth notables, after the Restoration.

Blake, William (1757-1827), painter, poet, and mystic, whose "Songs of Innocence" and scriptural drawings reveal an intense spirituality and much original power.

Blanc, Louis (1811-1832), a French Socialist politi-cian who was Munister of Labour after the Revolu-tion of 1848, but found his views too advanced for Louis Napoleon, and lived in calle until the fall of the Second Empire, when he returned to France and died at Cannes in 1882. He was a man of genual and amable personality, and the author of several unportant historical works

tant historical works

Blatchford, Robert (b. 1852), an able and trenchant
Socialistic writer, and editor of The Clarron. His
chief books are In Diffence of the Rottom Dog, Merrie
England and The Soverry Shop. During the war
has contributed a full page article of vigorous criticism
each week to the Weekly Dispatch.

Blavatky, Helena Petrovna (1831-1891), a
noted Theosophist of Russian birth, who claimed
to possess spiritualistic power, and expersed con-

to possess spiritualistic power, and exercised considerable influence up to the time of her death over a

small but devoted band.

Sman but devoted bank.

Blessington, Marguerite, Countess of (1789-1849), an Inshwoman of literary taste who, with the Count d'Orsay (2.2.), established a sort of silon at Gore House, Kensnigton, where she held fashionable receptions, and was a liberal patron of things literary and artistic. Her novels of high life had quite a vogue in her lifetime, but are not now read.

vogue in her lifetime, but are not now read.

Blind, Karl (1826-1907), was a native of Mannheim, and in 1847 associated himself with the German revolutionary movement, but was arrested thad imprisoned. Gauning his liberty, he resided in Britisels for a time, and afterwards settled in London, remaining in close touch with more like Mazzin and Louis Blanc, and by pen and speech constantly advocating political freedom.

Blondel, troubadour servant to Richard I., who is said to have discovered the king's place of imprisonment in Austria by singing beneath the window, afterwards securing Richard's release.

Blondin, Charles (1824-1897), a famous French rope performer, who crossed Niagura Falls on a

tight-rope, and was for many years the most popular acrobat of his day, living mostly in England. Blood, Thomas (1688-1680), the officer who at-tempted to steal the Royal Regalia from the Tower, and was captured and imprisoned, Charles II, not only pardoned him, but granted him a pension of

faco n year.

Bloomfield, Robert (1766-1823), a pessant poet, who attained considerable fame by his "Farmer's Boy," and other rural pieces, in which the love of

Nature was gracefully and tenderly expressed.

Bitichar, Field-Marshal L. von (1749-7619),
was the famous Prussan commander who, after a
long and brilliant military career, joined forces with
Wellington in the final campaign against Napoleon, and materially helped to wn the great victory of Waterloo by advancing to Wellington's support. After the peace he relired to his country seat in Silesia, and was seen no more in active service.

Silesia, and was seen no more in active service. Blunt, Wilfrid Boawen (b. 1840), best known for the active part he took in Egyptian affairs in 1881-1888 and his continued support of what is called the Egyptian national movement. He was a devoted aduliner of Arabl Pasha, and spent much money in his defence. In 1007 he published his Secret Hassery, of the English Octoberation of Septyn, which aroused nuch controversy. Published a book of Remandacences in 1922. At his Sussex seat he keeps the finest stud of Arab horves in the world. His wife is grand-daughter of Lord Byron,

a grand-daugnter of Lord Byron.

Blyth, Lord (b. 1841), an enument authority on agriculture, and practical experimenter in farming methods. Is a director of W. and A. Gibby, Ltd., a member of several learned and agricultural societies, and has large experimental farms in Essex. Made a baronet in 1895, and was raised to the

peerage in 1907.

Boadicea, queen of the Iceni tribe of Britons, who raised an army against and defeated the Roman invaders, but was afterwards vanquished by Suetonius and committed suicide.

Suctonus and committed suicide.

Boccaccio, Glovanni (1373-1375), an Italian author who has often been called "The Father of Novel Writing." He had a lively imagination and graceiul style, and his famous Decameron—condemned by two Poyes and by the Council of Trent—has been a fount of inspiration to poets and story teller from shalker sense by Yant's

tellers from Shakespeare to Keats.

Boehm, Sir Joseph Edgar (1843-1800), a successful Austrian sculptor who settled in London in

cessul Austran sculptor who settled in London in 1862, and was afterwards entrusted with numerous important commissions, his best known statues being those of Queen Victoria, Wellington, and Carlyle.

Bolleau-Despreaux, Nicolas (1962-1971), 2 French poet who was contemporary with Mollère, and wrote many classical initiations which were highly thought of in his own time and later, and are still frequently referred to.

Boito, Arrigo (b. 1842), an Italian poet and musical composer. He wrote the libretti of "Othello" and "Falstaff" for Verdi, and for his own operas of

"Mefistofele" and many others.

Mefistofele and many others.

Solayn, Anne (1507-1536), queen of Henry VIII and mother of Queen Elizabeth; originally maid-inwaiting to Queen Catherine, who was divorced by Henry to make way for her. She was a promoter of the Reformation, but fell from favour with her facility spouse, and was beheaded on a charge of treason.

Solingbroke, Henry St. John, Wiscommin (1678-1751), a statesman and litterateur of the days of Queen Anne, whom he served both as Secretary of War and Foreign Secretary. Was exiled after the accession of George I. because of his devotion the Stuarts, but later on was pardoned and returned to this country, spending the remainder of his days in literary pursuits. His Study of History, Letters on Patriotism, and Idea of a Patriot King, were works of power ski influence.

Soliwar, Simon (1783-1839), the first President of Yenezuela, and subsequently Dictator of Pera; commonly called the Washington of South America.

Sonawentura, St. (1221-1274), a Franciscan mork of great learning and piety, and a leading Schoolman. He was called "the Seraphic Doctor."

Bond, Rt. Hon. Sir R. (b. 1857). Premier of Newfoundland 1900-1909, and has been a member of the Newfoundland Legislature since 1862. Has borne a promnent part in all inegotiations of late years for the settlement of the Newfoundland fisheries questions, and attended the Imperial Conference in London in 1907.

Bonheur, Roesa (1822-1899), a native of Bordeaux, and one of the most noted animal painters of the 19th century. "The Horse Fair" is probably the most popular picture of the kind.

Bonliace, Es. (680-755), a native of Devon, spent most of his life in Germany in Christianising missions, and became Archislop of Maintz. He and a number of followers were massacred in Friesland.

Bonner, Edmund (circa 1963-1959), the notorious Bishop of London in the reign of May Tudor, and the prime mover in the persecutions of the Protestant

the prime mover in the persecutions of the Protestant martyrs. He remained faithful to his religion after Elizabeth came to the throne, and passed the last ten years of his life a prisoner.

Bonnivarde, Francois de (1406-1570), a Republican monk, and author of a history of Geneva, his native city; suffered a long incarceration in the Castle

of Chilion, and was the subject of Byron's poem, "The Prisoner of Chilion."

Booth, "General" Bramwell (b. 1850), eldest son and successor of "General" William Booth as head of the Salvation Army. Was chief of staff from 1860 to 1912. His wife, IMFR. Bramwell Booth, is also a great personality and an active force in the organisation.

Booth, Rt. Hon. Charles, P.C. (b. 1840), a Liver-pool merchant and shipowner who has devoted many years and much of his fortune to the collection of facts concerning the poor of London, of which ten volumes have appeared. In 1904 he was made a

Privy Councillor.

Booth, Edwin (1833-1841), an American tragodian

Booth, Edwin (1833-1831), an American tragodi in of great enumence, son of junus Britus Booth, the English tragedian, and frother of John Wilkes Booth, who assassmated Fresident Lincoln. Sa Shakespeanan actor Booth took high rank, and is said to have played Hautlet oftener than any other actor. He visited England several times.

Booth, "General" William (1829 1972), while quite a young man became a Methodist local preacher and a trave ling evangelist. Founded the Salvation Army on 1878, which tatier I is enthusistic and eminently practical direction became an organisation of world-wide influence. Presided at an International Salvation Army Congress in London in 1904. Heather Freedom of the City of London granted to him in 1905, in 1907 visited Japan, and in 1908 South Africa. He died in August 1972.

Borden, Robert Laird, K.C., M.P. (b. 1854). Premier of Canada since 1977, defeating Sir Wilfird Lau the general elections on the Reciprocity

Lau the general elections on the Reciprocity Bill, has been the leader of the Conservative party in the Canadian House of Commons since the resigna-tion of Sir Charles Thoper in 1800. Has had a dis-tinguished career at the Bar also. Accompanied by some of his Ministers he visited England in 1919 and arranged a new Canadian naval programme with the Imperial Government, which, owing to opposition, has been delayed.

has been detyeed.

Borgin, Coman, the masterful and unscrupulous son of Pope Alexauder VI., who paved his way to power by the nurder of those who stood in his way, and aided by Louis XII. of France, became ruler of Romagnia, the Marches, and Umbria. Pope Julius II. benishad hun from Rome, and he was impropried in banished hun from Rome, and he was imprisoned in Spain, but escaped to find a soldier's death in the army of Navarre in the invasion of Castille, in

Borgia, Lucrezia, sister of Casar, was deemed almost as blood-guilty as her brother, and there can be no doubt that many crunes were committed in her name if not by her own hand.

Borromeo, Carlo Baint (1538-1524), Cardinal Archibishop of Milan, wave nephew of Plus IV., and of great benevolence. Canonised in 1614.

Borrow, George (1803-1881), was for many years travelling agent for the British and Foreign Bible

Society, and in the course of his wanderings made a special study of gipsy life, and wrote some of the most whatming and picturesque books about the Romany tribes we possess. His Lavengro and Romany Rye are classes.

Bosaawan, Admiral [1711-1751], was one of the most gallant of our fish century naval commanders, and known as "Old Dreadnought." He was in command of the fact that took Madras, and in the operations at Cape Finkterre, Quebec, and Louisburg, Cape Breton, did signal service.

Bosauat, J. B. [1027-1704], an eminent French

Bossuat, J. B. (1027-1704), an eminent French Bishop and theologiau, whose sermons are of striking eloquence, and whose historical and con-

Boawell, James (1740 1795), made himself famous by writing The Life of Dr. Yokuson, for which purpose he came to London from Scotland, and

purpose lie came to London from Scotland, and devoted himself assiduously to studying Johnson's character, sperrling some years in close intimacy with the great leastographer and produced what is probably the finest inography in the language.

Botha, General the Hon. Louis [b. 1863], the Boer general who succeeded Joulert in the chief command against the British forces. On parliamentary government being granted to the Transvaal in 1907 he became the first Prime Minister, and attended the Imperial Conference in England the same year. In 1919 made first Prime of the South African Confederation. Took strong action, January, 1974, in deporting nine strike leaders to England. After the outbreak of war with Germany took the field at the lical of a Union force and in addition to putting down a rel-el movement, eignneered by Germany, successfully invaded German African terntory. African terntory.

African terratory.

Botticelli, Sandro (1446-1510), Italian painter and discuple of Savonarola, the democrat. Produced many notable pictures, and assisted in the of the Sistine Chapel. His illustrations to Dante's Disne Comedy are world-famous.

Bouoloauls, Dion (1822-1800), a profice playwright and capable actor, who at twenty years of age made a lut with "Loudon Assurance," and during the later period of his life won tame and forture by the later period of his life won issue and fortune by the writing of Irish dramas, including "The Colleen Bawn" and "Arrah na Pogue" Bouguereau, W. Adolphe (1825-1905), a celebrated

Bouguereau, W. Adolphe (1825-1905), a celebrated Freach pannter, whose pictures of classical and and que subject gave him celebrity. "The Trium; ho venus," "thatity," "Spiplor, and "The Golden Age" were among his masterpieces. Boulanger, General G. E. J. (1837-1821), was for a few years the most popular man in Paris, if not in France. Was made War Minister in 1886, and contrived by a violent attitude towards Germany ind a fattery of the mob, to attact much attention. In 1888 he may be said to have dominated French radius, and many expected the heavy. politics, and many expected that he wor coundetat, and become dictator of France; but his

courage was not equal to his opportunity, and he rapidly fell out of favour and left the country in order to avoid arest. His career was over, and in 1871 he committed suicide at Brussels on the grave of Midme. Bonnemain, with whom he had formerly hyed.

Midne, Bonnemain, with whom he had formerly lived.

Boulton, Matthew (1988-180), a Branningman and midner and inventor, who provided capital for James Wat in order to develop the steam engine. The two were in partireship for many years it was to Boulton's practical business qualities that Wattowed much of his success.

Bourget, Paul (b. 1852), a French novelist, post and critic, who has spent much time in England, and written some interesting looks on the country and its people. His novels are remarkable for their artistic qualities, but are mostly of sombre tone.

Bourne, The Most Rev. Francis, Roman Catholic Cardinal Archbishop of Westmaster, was born in 180, and became a priest in 1884. In 1856 was appointed Bishop of Epiphania, and in the following year Bishop of Southwark. In 1903 he succeeded Cardinal Vaughan at Westminster Bowdler, Thomas (1754-1803), a pious English physician, who issued expurgated editions of Shake-

speare and Gibbon, eliminating all expressions which he considered offensive to good taste and morality. From this came the term to "Bowleirise," Bowless, Thomas Gibson (b. 1849), an active politican who represented King's Lynn m Parliament from 1892 to 1905, re-elected in 1910, and lost the seat again the same year. An inchive writer, for many years proprietor of Vanuty Fair.

Boyce, William (1910-1799), a composer and organist of note who produced much Church music and collected more, and was a sone-writer of reducte.

organist of note who produced much Church music and collected more, and was a song-writer of rejute, his "Hearts of Oak" being well-known.

Boyd-Carpenter, Rt. Rev. Bir Wm. (b. 1841), D.D., Canon of Westininster since 1712, Hishop of Ripon 1884-1911. Author of many religious works, recipient of many honours, and a gifted preacher.

Braddon, Mary Elizabeth (Mrs. Maxwell)

18 18 19 bern to write storage us 1865 and bee

Braddon, Mary Elizabeth (Mrs. Maxwell) (b. 1837), began to write stores in 1867, and has a record of over sixty novels, many of which had a great success, among them being Lady Audley's Seriet, Aurora Floyd, and Henry Dumbar.
Bradlaugh, Charles (1833-1891), a secularist writer and lecturer, who was very popular with the working, classes. Was elected M.P. for Northampton in 1880, and, after an undigmined conflict in reward to taking the ooth, became recognised as a

ampton in 1880, and, after an undigmined conflict in regard to taking the oath, became recognised as a useful representative, and esteemed by all parties. Bradshaw, John (1986-169), the Justice who presided at the trial of, and delivered sentence upon, Charles I. He subsequently quarrelled with Cromwell and was removed from office. At the Restoration his body was evhunied, with those of Cromwell and Ireton, and hung on a gibbet. Brahe, Tycho (1546-1001), a celebrated Danish astronomer, who founded the planetary system which bears his name, and compiled a list of 777 fixed stars.

fixed stars.

Brahma, Johannes (1833-1897), a German musical composer of deserved eminence, and the friend and pupil of Schumann. His compositions are of a varied pupil of Scinniami. Its Compositions are of a varied order, most classical in form, and possess deep intensity of expression and poetic significance. His planoforte music covers a wide range. He wrote some 300 songs, and among his more serious works the "German Requient," the "Triumphiled," and the "Rhapsodie" are the best known.

Bramah, Joseph (1749-1814), was a native of Stamborough, Yorkshire, and, devoting himself to invention, introduced numerous mechanical improve-

invention, introduced numerous mechanical improvements, including the hydrostatic press, a liquidpumping apparatus, a most ingenious series of safety
locks, and bank-inde printing machines.

Brampton, Lord (1817-1907), long known to the
public as Sir Henry Hawkins. Was famous as an
advocate, and took part in many celebiated cases,
including the Tichborne trul. Was made a judge
in 1876, and on his retirement in 1896 was raised to
the peerage. His Kennintscences, published in 1904,
was one of the books of the year. He lived to the
age of ninety. His wife, Lady Brampton, died a few
months later, loaving the main portion of the
Brampton fortune to Roman Catholic churches
and charities. and charitie

and charities.

Brassey, Earl (b. 1836), son of Thomas Brassey, came into prominence as a politician under Mr. Gladstone, having been both Civil Lord of, and Secretary to, the Admiralty. Is a recognised authority on naval matters, his Navael Annual being a standard book of reference. Has been Governor of Victoria, His famous yacht Sunbeam, and the story of its earlier voyages, written by the late Lady Brassey, are well remembered.

Brassey, Thomas (1805-1870), achieved great fame as a railway contractor, constructing the Great Northern Railway and others in this country, the Grand Trunk in Canada, and others in France, India. Australia. etc.

India, Australia, etc.

India, Australia, etc. Bramer, Frederika (1807-1865), a Swedish novelist, whose works attracted much attention in this country as well as in her own. Her best known stories are The H. Family, Brothers and Sisters, and The President's Daughters. The stories—as translated by Mary Howitt—are simple pictures of domestic life and full of charm.

Brannan, Louis G. B. (b. 1853), successful inventor; obtained fro, coo from the British Government for his torpedo; and is the inventor of a gyroscope tallway from which much utility is anticipated. The War Office provide him with a completely equipped factory for the carrying on of his experiments. Brewster, Bir David (1781-1868), a Scottish philosopher of great scientific attainments who edited the Edinburgh Encyclopedia in 1868, invented the kalendoscope in 1866, and gave permanent form to the stereoscope. Was one of the founders of the British Association, and a voluminous writer on science. Made important discoveries respecting the polarisation of light.

Bridge, Sir F., organist of Westminster Abbey (b. 1843), educated at Rochester, studied music unde Sir John Goss, and since 1875 has been conductor. Westminster Abbey. He has composed numerous caut itas, authents, etc., and was appointed Gresham Professor of Music in 1900. It is marriage in the spring of 1914 was an event.

spring of 1914 was an event.

Bridges, Robert, M.A. (b. 1844), was appointed poet laureate after the death of Mr. Alfred Austin in Practised medicine successfully up to 1882. thenceforward devoting hunself mainly to literature. Henceforward devoting hunself mainly to literature, leading published several volumes of poems and plays of high ment, displaying a reduct fancy and a lroad philosophic spirit. Was born at Walmer and educated at Eton and Oxford

Bridget, St., or St. Bride, an Irish suint of the officentury, who was so beautiful that she desired to be made ally in order to be free from temptation.

St Bridget's day is Feb. 1.

Fidgewater. Francis Egerton (1736-1803). St Breiger's day is Peo. r.

Bridgewater. Francis Egerton (17:36-1803),
and (and last) Duke of. The projector of the famous
Bridgewater Canal, which was the beginning of the
great English canal system, and yielded his family
enormous wealth; was absorbed in 1887 by the
Manchester Shap Canal Company, who paid

figure of the last-same, and founder of the famous Bridgewater, Francis, Earl of (1756-1820), grand-nephew of the last-samed, and founder of the famous Bridgewater Treatives, written by the most famous and same of the day and telebrated divines and scientists of the day, and devoted to demonstrating the power, wisdom, and goodness of God, as manifested in the Creation.

Bright, John (1811-1889), a Radical Quaker states-

man and orator, one of the chief promotors of the Reform movement which led to the introduction of Free Trade. Was President of the Board of Trade, and later Chancellor of the Duchy of Lanca-ter under Mr. Glad-stone until the Home Rule policy was introduced, and

stone until the Home Rule policy was introduced, and was famed as a Parliamentariou and platform speaker. Brindley, James (1710-1772), an emment engineer who constructed or laid out 40° miles of navigable waterways in Fingland, including the Bridgewater and Grand Trunk Canals.

Bristol, Blahop of. (See Browne.)

Broadbent, Sir William (1815-1974), was physician to the late King, consulting physician to St. Mary's Hospital, and to the London Fever Hospital. Wrote on subjects of multical greaters at this thington. Wrote on subjects of medical science with distinction.

Broadhurst, Henry (1840-1911), was one of the oldest and most respected of the Liberal-Labour members, an able speaker, and possessed of ad-ministrative capacity. He sat for Leicester from 1892 to 1905, when he retired. In Mr. Gladstone's 1886 Government he was Under-Secretary for the Home Department, and was Secretary to the Parlia-mentary Committee of the Trades Union Congress

mentary Committee of the Trades Union Congress for fifteen years. Started life as a blacksmith.

Brook, Sir Thomas, R.A. (b. 1827), was the pupil of Foley, and has achieved a high reputation as sculptor, among his latest work heing the Queen Victoria Memorial in front of Buckingham Palace.

Brodie, Sir Benjamin G. (1783-1862), the leading English surgeon of his tune, and author of numerous medical works of a standard description. He was nedical adviser in succession to George IV., William IV., and Queen Victoria. Was President of the Royal Society, and created a baronet in 1834.

Bronta, Charlotte (1816-1853), one of the more signed nevellists of the 19th century. Her Yame Eyre, published in 1847, attracted universal notice, and her

other novels, Shirley, Vilette, and The Professor, are all marked by the force of strong genius. Her sisters, Emily and Anne, also wrote novels and poems, Emilys Withering Heights and some of her verse showing exceptional power.

Prooke, Elir James (1803-1808), an adventurous Englishman who showed great enterprise and administrative ability in his handling of the affairs of Sarawak, of which place he became Rajah, and also Governor of Labuan His nephew, Sir Charles Brooke (b. 1804), succeeded him, and achieved great success in the suppression of piracy and head-hunting

Prooke, The Rev. Stopford A. (b. 1832), was at one time a popular Church of England preacher and Chaplain to Queen Victoria. In 1850 he separated hunself from the Church and became minister of Berdford Chapel, Bloomsbury, but retired in 1895. His leisure has been devoted to literary work, and he is the author of numerous able books, including a History of Early English Literature, and The Life Superlature, a volume of powerful sermons published in 1906. He published a work on Venice in 1907.

Superlative, a volume of powerful sermons published in 1906. He published a work on Venuce in 1909.

Brougham, Lord (1778-1868), one of the chief legal luminaries of the 19th century, who made a great name by defending Queen Caroline against George IV., and afterwards rose to political enunence. Was an eloquent advocate of Reform, and became Lord Chancellor in 1830. Contributed to the Edinburgh

an eloquent advocate of Reform, and became Lord Chancellor in 1830. Contributed to the Edisburgh Review, and was an ardent promoter of education.

Brown, John, "O Ossawatome" (1800-1859), the hero of Harper's Ferry, whose action in inciting certain negro slaves to rebel in 1869, struck the note of Alarm which resulted in the Civil War. His attempt to take the Arsenal at Harper's Ferry was defeated, and he was hanged, being afterwards regarded as a marryr by the Abolitionists

Browne, Charles Farrer (Artemus Ward) (1834-1867), was one of the most whinscal and "anning humorists America has produced. In addition to his books he wrote and delivered exceedingly funny lectures, and was making an English tour with them when he was seized with his fatal silness, and died at Southampton.

Browne, Hablot K. (1815-1882), best known a "Phiz." Was the illustrator of Dickens's novely, from the Pickwick period down to Little Dorrit. He caught the lumnour of Dickens very happily, and his name will always be associated pictorially with that of the great novelust.

Browne, Rt. Rev. Goorfe Forest, Bishop of Bristot 1897-1914, 1833, educated at Cambridge, Proctor of Cambridge University 1870-1871, 1871-1872, and 1879-1879, 1871, and Bishop Suffraçan of Stepney, 1865. Pauls, sign 1, and Bishop Suffraçan of Stepney, 1865. Halls, witten much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a written much on Cherch Ilstory, and is suffer of a writ

rior; and Bishop Suffragan of Stepney, 1895. Has written much on Church History, and is author of a standard work on the he Caves of France and Switzerland

Superriam.

Strowne, Sir James Crichton- (b. 1840), a famous specialist in mental disorders, and Visitor in Lunacy for the Lord Chancellor's department for thirty years.

Browne, Sir Thomas (1605-1682), the author of physician and physician

physician and antiquary, whose works still attract the devout.

Browning, Elizabeth Barrett (1809-1861), an English poetess of enumence who, between 1830 and Engish poetess of elimentee who, between 1830 and 1960, wrote many poems showing great mellectual grasp and imaginative fervour. Some of her works, such as "The Cry of the Children," "Lady Geral lime's Courtship," "The Romaunt of the Pagy," and "Bertha in the Lane," are sure of imprortality, and her "Aurora Leigh," a novel in pretic form, is, in portions, on a high level of poetic execution. She was married to Robert Browning in

execution. She was married to Robert Browning in Rab, and afterwards lived mostly in Italy.

Frowning, Oscar (b. 1837), a versatile man of letters, University Professor and, educationist, whose pen has covered a wide range of subject. Is author of Cornetius Nepor, a Life of Leorge Filtor, Gueiphs and Ghielditues, Charles XII. of Sweden, History of Fainational Theories, History of Functional Theories of Reminiscences published in 1910.

Browning. Robert (1810-1889), one of the two greatest poets of the later Victorian era. His earlier poems and dramas, though marked by singular misight and power, were tar for a popular, mamby because of a somewhat obscure and involved style from which he only occasionally freed himself. His "Strafford," and "The Blot on the "Scutcheon" were both produced by Macready, and attained some measure of stage success; but Browning was essentially a poet to be read, rather than acted. Some of his dramatic characterisations are of striking power. From about 1864 to 1870 he published many works, and knew at last what it was to be an appreciated poet. His "Men and Women," "Dramatis Personae," and "The Ring and The Book," contained some of the finest poetry of modern times.

Personae, "and "The Ring and The Book," contained some of the finest poetry of modern times.

Bruce, James (1730-1794), a celebrated African traveller of Scottish birth who successively explored Syria, the Nile Valley, and Abyssima, and reached the source of the Blue Nile; published in 1790 a natable five-volume work on his discoveries.

Bruce, Robert (1210-1295), competed with John Baliol for the Crown of Scotland, and had a disinquished career on both sides of the border.

Bruce, Robert (1274-1329), grandson of the above, took part with Wallace in the revolt against Edward took part with wather in the revolt against Edward
I, later leading the popular cause, achieving one
victory after another, until at Bannockburn he overthrew the English anny and ultimately secured
Scottish independence. He reigned it wenty-two years as King Robert I.

Brummell, George (1778-1840), "Bean" Brummell, the fashion leader in English Society when George IV. was Prince of Wales; was a bon ravant and gamester, whose excesses, involved him in imprison-

ment and ultimate imbecility

Brunel, Isambard Kingdom (1806-1859), a prominent engineer who constructed the more difficult portions of the Great Western Railways, and many often worth the Great Western Railways, and many ofter important valso archieved emmence as a designer of steam-ships, beginning with the Great Western, one of the first steamers to cross the Atlantic, and ending with the Great Eastern, by far the largest vessel that had been built up to the time of its completion in 1859.

Brunel, Sir Mark Insambard (1775-189), father of the last-named, and constructor of the Thames tunnel, finshed in 1821.

in the distributed in 1813.

Brunner. Rt. Hon. Sir John, Bart. (b. 1842), a politician and philanthropat engaged with Dr. Ludwig Mond in a great alkali enterprise, and greatly interested in technical education and public affairs: was made a Privy Conneillor in 1906, and was M.P. for Northwich from 1885 to 1910, when he retired.

M P. for Northwich from 1885 to 1910, when he retired.

Brutus, Lucius Junius, Roman Consul conjointly with Collatinus, 500 B.C. He was celebrated
as the avenger of Lucretta, and for his patriotism in
putting to death two of his own sons, who had
conspired against Collatinus. Expelled the Tarquins
and established the Republic, but fell in hattle.

Bryan, Win Jannings in 1800, was Penocratic
candidate for the American-Presidency in 1896 and
again in roop but was defeated both times by

again in 1900, but were defeated both times by McKinley. In 1907 was adopted for the third time bemocratic candidate for the Presidency, but was unsuccessful against W. H. Taft. Under the Presidency of Woodrow Wilson in 1913, he received Yes

appointment of Secretary of State.

Bryant, William Cullen (1704-1878), an eminent American poet and editor. His first poem, "Thanatopsis," was welcomed both in his own country and

topsis," was welcomed both in ms own country and in England as the work of a serious poetic mind.

Bryce, Rt. Hon. James, Viscount (h. 1838), P.C., O.M. For many years Professor of Civil Law at Oxford. Was Under Secretary for Foreign Affairs in 1880. Chancellor of the Duchy of Lamaster in 1892, and President of the Board of Trade in 1894. From and President of the Board of Trade in 1894. From 1905 to 1907 was Chief Secretary for Ireland; and from 1907 to 1912 British Ambassador to the United States. Aunoga his historical writings his works on The American Commonwealth and The Holy Roman Empire hold high rank. Published a work on the South American Republiss in 1912, and in the same year paid a visit to Australia.

Bucer, Hartin (1491-1551), was a noted German follower of Luther, who came to England on the invitation of Edward VI., and was made Professor of Theology at Cambridge.

Theology at Cambridge.

Suchaman, George (1505-1582), the Scottish historian and tutor to Prince James, afterwards James I.; was the nephew of George Heriot and Moderator of the General Assembly.

Suchaman, James (1791-1868), American diplomatist and statesman, at one time United States Minister

in London, and subsequently (1857-1861) President of the United States.

the United States.

Buchanan, Robert W. (1841-1901), first attracted attention by some books of poems of great merit dealing mainly with humble life, and afterwards blossomed forth as a critic, novelist, and dramatist, being more or less successful in each line. His novel. The Shadmo of the Sword, and his dramas, "Lady Clare" and "The Charlatan," are prominent examples of his work.

Buckingham, George Villiers, Duke of 1592-1628), the well-known favourite of lames I., who afterwards got into disgrace under Charles I.,

wno atterwarus got mto disgrace under Charles I., and was assassinated by Felton.

Buckingham, George Willers, Duke of (1607-1688), son of the last-named. An evi and unscrupulous politician and littérateur, who, after a few years of brilliant existence at the Court of Charles II., retired to his Yorkshire estate and died Charles II., retired to his Yorkshire estate and died from fewer succeeding a chill caught while hunting. His denise occurred, not in "the worst mit's worst room," as Pope put it, but in the house of a tenant at Kirby Moorside. He was the organiser of the unpopular "Cabal" ministry of 1667-1673.

Buckland, Francis T. (1826-1820), son of Dean Buckland, was an instructive and entertaining writer

relating to fishing. He was Inspector of Salmon Fisheries from 1800 down to his death.

Buckland, William (1784-1850), an English clergy-man and geologist (father of the foregoing) who held the Deanery of Westminster from 1845 to 1856, and wrote the Bridgewater treatise on Geology and

wrote the Bridgewater treatise on Geology and Misserately and other learned not its.

Buckle, George Earle (b. 1654), was educated at Oxford, and made a brilliant start on the edutorial staff of the Time, becoming editor on the death of Thomas Chenery in 1884, a position which he held up to 1912, when he retired. Wrote Vol. 111. of The Life of Distracti, of which Vols. I and 11. were written by the late Mr. Moneypenny.

Buckle, Henry Thomas [1821 1803]; the author of The History of Civilianton in England, one of the most vivorous productions of the roth century.

of The History of Civilisation in England, one of the most vigorous productions of the roth century.

Buckmaster, Sir S. O., M.P., K.C., Lord Chancellor, May, 1915; Solicitor-General 1913-15 (h. 1861), elected for the Keighley Division in 1911. Is an able speaker and has done good service to his party.

Buffon, G. L. L., Comte de (1970-1988), devoted his life to the study of natural history, and his famous work in thirty-five volumes gave a more elaborate description than had theretofere been published concerning the animal hondom. concerning the animal kingdoin.

Bull. John (1563-1628), was organist to James I. and composed much acceptable music, including, it is supposed, our National Authem "God save the King." In his later years was cathedral organist at Antworp.

Buller, General Sir Redvers (1830-1908), served in many campaigns, and received numerous honours. In China, Ashanti, the Zulu War, Egypt, and the Soudan he won distinction, and in 1889 was Under-Secretary for Ireland, Quartermaster-General from 1889-1890, Adjutant-General 1890-1897, 1891 the outbroak of the Boer War was nade commander of the Bettish ferres. but winted broak of the Boer War was made commander of the British forces, but owing to reverses, Lord Roberts went out and took supreme command. General Buller afterwards relieved Ladysmith and took an active part in later engagements. After his return to England he displeased his superiors by some remarks at a public dinner, which ended in his being retired on half-pay.

Bullow, Prince Bernhard won (b. 1849) after a distinguished career in Rome, Vienna, St. Petersburg, Roumania, Spain, and elsewhere, from 1900 to 1909

was Chancellor of the German Empire and Prime Minister of Prussia.

Minister of Prussia.

Bulwer-Lytton, Edward. (See Lytton, Edward Bulwer, Lord.)

Bunsan, Baren Christian won (1791-1800), a German dipionatist and scholar, who was Prussan ambassador to England from 1842 to 1854, and wrote numerous historical works of importance,

Bunsen, Robert Wilhelm (1811-1890), noted German chemist, discoverer of the metals casium and rubidium, and inventor of the Bunsen burner, betters and nume.

battery, and pump. Made many important observa-

tions in spectrum analysis.

Sunyan, John (1608-1688), was originally a travelling tunker and fought with the Cromwellians. Journg a Baptist Society in Bedford in 1655, he became imbued with religious enthusiasm and was for some years a popular preacher. After the Restoration he was thrown into prison, and there wrote his *Prigrim's Progress* and *The Holy War*, the two finest allegated by the state of the state

Progress and I'me Hoty War, the two mass anagorical works in this or any language.

Burdett-Coutts, Baroness (1814-1905), younges
daughter of Sir Francis Burdett, and granddaughter
of Thomas Coutts, the banker, whose vast fortune
came to her in 1837, through the Duchess of St.
Albans, who had been Coutts's wife. The Baroness's
within and unexits munificance covered almost every public and private munificence covered almost every department of charitable effort. She married in 1881 Mr. W. L. Ashmead-Bartlett, who assumed the additional surname of his wife. She was buried in

Westminster Abbey.

Burgh, Hubert de, one of the Magna Carta barons, and Regent during the ininority of Henry III., and for some years afterwards chief Minister.

for some year-atterwards chief amister. Burghiey, Cecil. Lord (1520-1598), Secretary to Lord Protector Somerset, an influential statesman under Edward VI. and Oucen Mary, and subsequently Queen Elizabeth's favourite Minister for

Burke, Edmund (1790-1791), the son of a Dublin attorney, went to London in 1796, and in ide his mark in literature by his famous work on the Scotime and Beautiful. Later on was private secretary to the Marquis of Rockingham, then Fremier, and entered Marquis of Rockingham, then Freiner, and entered Phrihament, where he quickly made a name. An able and earnest debater, he took part in all the great movements of his time, and in 1795, after his retirement, was awarded a handsome pension from the Civil List.

Burnard, Sir Francis Cowley (b. 1837), was educated for the bar, drifted into journalism and play-writing and for many years was a highly successful burlesque-writer, as well as the author of

paywhiting and following years was a linguistic sessiul burlesque-writer, as well as the author of numerous plays. Joined the staff of Punich when twenty-seven, and was subsequently editor of that journal for a quarter of a century. He was knighted in 1902, and retired from Punich in 1906. A Civil List pension of \$200 was conferred on him in 1907. Burne-Jones, Sir Edward (1833-1898), an English painter of singular power, which at first modelled himself upon Rossetti, whose influence is more or less visible in most of his works. A sad mysticism dominates his pictures, but the colour scheme, the design, and the poetic charm are always evident. His most famous works are "The Days of Creation," "The Mirror of Venus," "The Briar Rose," and "King Cophetua." He was elected A.R.A. in 1885 but resigned in 1893, and was made a baronet in the following year.

Burnet, Bishop Gilbert (1643-2715), was a promment prelate and historian of the time of William and Mign, being appointed to the see of Salabary.

and Mary, being appointed to the see of Salisbury. His History of the Reformation and History of His Own Times are valuable contributions to the sum of historical knowledge.

sum of historical knowledge.

Burnett, Francas Hodgson (b. 1849), is a native
of Lancashire, but ranks with American novelists,
having lived in the United States since 1865. That
Lass of Lowerie's, published in 1877, established her
fame as a novelist, since which she has written Little
Lord Familiarry, Little Saint Elazabeth, and many
others of merit and distinction.

the writer of a history of music, and as the father of

Frances Burney (Madame D'Arblay) the authoress of *Evelina* and other novels.

Burney, France. (See D'Arblay, Madame.) Burney, France. (See D'Arblay, Madame.) Burnham, Baron (b. 1833), has been connected with journalsmall his life, being the son of the late Mr. J. M. Levy, whose connection with the cheap press is well known. Baron Burnham has for many press is well known. I make the proprietor of the Pauly Telegraph, a paper which, under his direction, has obtained a

world-wide reputation and an enormous circulation.

Burns, Rt. Hon. John, M.P. (b. 1858), the most prominent of parliamentary Labour representatives. A working man and a friend of working men, and came into special prominence during the great strike of dockers. Has represented Battersea in Parliament since 1892, and was for a number of years an active member of the London County Council. Was President of the Load Government Board, 2005-2014, in March, 1914, became President of the Board of Trade, but resigned the office when the war broke

Trace, but respiratory out in Ang. 7914

Burns, Robert (1759-1796), Scotland's greatest poet.

Startled the world with a little book of poems in 1786

Startled the world with a stone can of the muse. With the £500 that his book yielded him he bought a farm, obtained an appointment with the Excise in 1789, and for the last five years of his life lived at Dumiries. In his career he poured forth song after song of emotional tenderness, and made himself minorial. It was a glorious humanity of which he was the inspired

outhpiece

Burritt, Ellhu (1310-1870), the "Learned Black-smith," was a well-known American linguist, writer and publicist, and founder of "The League of Universal Brotherhood"; was U.S. Consul at

Universal Brotherhood; was U.S. Consul as Birmingham for many years.

Burrows, Rt. Rew. L. H., D.D., Bishop of Sheineld since Feb. 1914 (h. 1857). Educ. Charterhouse and New College, Oxford. Successively Vicar of Wreckiesham, Goddming, Croydon, Hove, and Sulfragan Bishop of Lewes.

Burt, Rt. Hon. Thomas, M.P., P.C. (h. 1847), was extlad and later became a tradescumon official of

a pit-lad, and later became a trades-union official of the old school, and was returned M P for Morpeth in 1874, holding the seat for nearly forty years, and winning wide esteem for his straightforwardness and

winning wite a strength of the as a Mohammedan. Later he did much exploring in Central Africa, and wrote some of our most popular books on that region. Entered the Diplomatic Service in 1861 and was successively Consul at Fernando Po, Santos in Brazil, Damasens, and Trieste. Perhaps his greatest work was the translation of the Arabian Nights in their fulness. This

work is in sixteen volumes. Butler, Samuel (1612-1680), renowned as the author of "Hudibras," one of the withest poems in the language, and one of the most quoted. His last years were spent in powerty, and he was buried in the Churchyard of St. Paul's, Covent Garden, and given a memorial in Westminster Abbey, "that he who was destinate of all things when alive might not want a monument when dead."

want a monument when dead."

Butler, Lieut.-General Sir William (18381970), soldier, traveller, and auther, saw service in
many lands; Canada (1870); Ashanti (1844); Zulu
War, Egypt, etc.; appointed to command in South
Africa, Dec. 1898, but a few months later resigned;
in 1890 was given command of the Westorn District,
finally returning from the army in 1905. Among
his books, The Great Lone Land (1872) and The
1974d North Land were conspicuous successes.
His wife (nee Elizabeth Thompson) painted "The
Roll Call." Roll Call

Butt. Madame Clara (b. 1873), the leading English controlto, made her first professional appearance in London in 1892. Her success wasimmediate. She was married to Mr. Kennerley Rumford—also an able vocalist—in 1900. Buxton, Rt. Hon. Sydney C., Lord, Covernor-General of South Africa since 1914 (b. 1853), M.P.

for Poplar 1886-1914: Colonial Under-Secretary 1892-1895 Postmaster-General (with Cabinet rank) 1905; Fresident Board of Trade 1910-1914. Served on Royal - Commission on Education, 1886-1889; member of Income Tax Committee, 1904. An active Liberal political writer and speaker.

Liberal political writer and speaker.

Buxton, Elir Thomas Fowell, Bart. (1785-1845),
a philanthropist and abolitionist, the friend o'
wilberforce, and a distinguished prison reformer
He was made a baronet in 1840, and there is a statue
to his menory in Westminster Abbey.

Byng, John (1704-1757), son of Viscount Torrington,
after a brillant career in the navy was made-like
his father before him—an Admiral, and sent on an
expedition to Minora, to attack the French who

expedition to Minorca, to attack the French who were besieging the place. For some reason he failed to perform the duty entrusted to him. Was truck by court-martial and sentenced to death, being shot on shippoard at Spithead.

being shot on shippoard at Spithead.

Byron, Henry James (1634-1864), an assiduous playwright for the last twenty years of his life, producing numerous burlesques of a class then in vogue and also writing a number of comedies, some of which artained great success, notally "Our Boys," which ran from Jamuary, 1875, to April, 1879, in Londou, and proved equally popular in the provinces.

Byron, Lord (1788-1824), was the poet who exercised the greatest inducate upon fluropean thought during the early part of the 19th century. Educated at Harrow and Cambridge, hie published his "Hours of Idleness" at twenty, a volume which was violently attacked by the Lidinburgh Review, and provoked the retulatory "English Bards and Scotch Reviewers," which caused a great sensation because of its uneparing criticisms of the writers of the day His "Childe Harold's Pligriniage," the first two cantes of which were published in 1812, at once placed him in the front rank of poets, and thence forward to the time of his death he continued to professional states. forward to the time of his death he continued to proforward to the time of his death he continued to produce poems, most of which were marked by an intense Republican sentiment, yet full of passion and charm and beauty. He made an unhappy marriage in 1815 with the daughter of Sir Raiph Milbanke, from whom the parted after a twelvennonth. He lived abroad for the rest of lits life, and died at Missolongh, whither he had proceeded with the view of aiding the Greeks in their battle for national independence.

Cabot, Sebastian (1477-1537), a naval explorer of note who was born at Bristol, and discovered Labrador in 1497. Later he closely surveyed 1,500 miles of American coast, and entering the service of Spain, made further voyage, of discovery for the Emperor Charles V. His later years were spent in England, Edward VI, granting hun the appointment of Grand Flott. He was the son of John Cabot, an Italian navigator in the English service, and with his father was engaged in the search for the north-west passage to India under the pationage of King Henry VII.

Cadbury, George (b. 1839), a preminent member of the Society of Friends, a well-known philanthropist, an ardent Liberal, chief proposetor of the Daily News and Leader, and head of the firm of Cadbury Bros., Bournevoile. His taken the lead in the Garden City project, and the village of Bourne ville may be regarded as the first enterprise of the character to be practically completed; it has an

endowment of over £200,000.

Cade, John, an adventurous Irishman who, in 1450, headed an insurrection, and entered London with 30,000 men, defeating the Royal forces at Sevenoaks on the way, and committing the wildest excesses. Cade was tiniselt killed the same year near Heath-field in Sussex by a Kentish theriff named Idea. Cade assumed the name of Mortiner, and it was from the "London Stone" in Cannon Street that he

rom the London stone in Cannon street that he harangued his tollowers.

Cadmus, founder of Thebes, 1550 B.C., was a Phoenician, and is said to have introduced the alphabet into Greece.

Cadogan, Earl (b. 1840), Conservative statesman; has been Lord-Lieutenant of Ireland and Lord Prvy Scal, previously serving in the minor Ministerial offices of Under-Secretary for War and the Colonics. First Mayor of Chelsea, 1900.

First Mayor of Chelsea, 1900.

Godmon, an Anglo-Saxon monk of Whitby, and the first of our naive poets. He paraphrased the Scripture with poetic effect, and wrote the story of King Lear and his Daughters. He died about 620.

Consar, Julius (100-44 HC.), achieved faine as a Roman general, and afterwards exercised great influence in Rome by his oratory. Was appointed successively inditary tribune, questor, adille in 65, and pointfex maximus in 63. A year later he was practor, and later formed one of the first trumvirate. His mittary exploits continued to fill the Romans with admir tion. He invaried Gaul and But-da, and afterwards entered upon the Alexandrine war, which afterwards entered upon the Alexandrine war, which brought him into contact with Cleopatra, whose power over him did not cases till his death. On his return from Africa in 44 the Crown was effered to him, a circumstraire in which caused the aristocratic party to compass his assassination.

Cagliostro, Count (1743-1795), an Italian charlatan whose real name was Joseph Balsamo, who for a time had an extraordinarily successful career at the different courts of Europe. He came to grief in connection with the Marie Antomette diamond necklace scandal, for which he was imprisoned in the Bastille, but escaped. He was afterwards imprisoned in the London Fleet and at Rome, and died in the fortress

of ban Leone. Caine, Hall (b. 1853), the well-known novelist, who aine, Hall (b. 1853), the well-known novelist, who after spending some years as a journalst joined Dante G. Rossetti, with whom he lived until his death in 1882. Subsequently published some sonnets and critical books, and in 1885 produced his first novel, The Shadow of a trine, which was successful and clearly indicated that he had found successin and clearly interact that he had non-inspection. Since then he has produced numerous novels, including The Deemeter, The Menxman, The Christian, and in 1994 The Produgal Son. His The Woman Thou gazest Me was one of the fiction sensations of 1913. Several of his novels have been drainatised by hunself, He has made a considerable fortune by his writings.

Science Edward (1835-1908), was for twenty-eight years Professor of Moral Philosophy at Glasgow University. On the death of Professor Jowett he succeeded him as Master of Balliol College, but

retired in 1907.

Caled, Mrs. Mona, a daing writer on marriage problems and novelist, whose story, The ll'ing of Aznael, published in 1889, created considerable stir, and has been followed by numerous other notable novels.

has been followed by numerous other notation cover bearing a Earl [1819-1883], was one of the ablest lawyers of his day, who, on entering Parliament in 1852, soon gained a high reputation for elequence and statesmanship lie was appointed Solicitor-General in 1852 by Lord Derby, was subsequently Attorney-General and a Lord Justice of Appeal, and under Mr. Distalet became Lord Chancellor in 1868 sections in the same caustry in the second 1868, serving in the same capacity in the second Disraeli Administration. In 1878 he was elevated to an Earldom.

Calus, Dr. John (1510-1573), was physician to Edward VI. and Queens Mary and Elizabeth, and nine times President of the College of Physicians. His name is commemorated in Caus College,

His name is commemorated in Caus College, Cambridge.

Cambridge.

Callamy, Edmund (1600-1666), a Puritan theologian who engaged with much enthusiasin in the religious controversies of his time. Although he was one of the Assembly of Divines, and continued a Nonconformist, he was made one of the King's Chaplains at the Restoratiou, but became a seceder under the Act of Uniformity and died in retirement.

Caldecott, Randolph (1246-1286), a book illustrator of great merit and humour. Left a position as bank clerk at Manchester in 1872, End settled in London, where for the rest of his life he was a successful producer of black and white illustrations.

successful producer of black and white illustrations.

Calderon de la Barca, Pedro (1600-1681), a

Spanish dramatist of great eminence whose plays

number nearly 200. He was writer of court spectacles for Philip IV.

Caligula, Calus Cassar, was the third of the Roman Emperors, who from a peaceful beginning in A.D. 372, worked up to a sangunary and licentiousending. He was murdered in A.D. 4x, after having disguisted the people with his monstrous acts.

Calloott, Sir Augustus Wall (1779-1844). Attained great eminence as a landscape painter, being elected R.A. in 1810 and knighted in 1827.

Calloott, John Wall, Mus. Doc. (1766-1821).

Brother of the preceding. A composer to whom we owe many delightful glees and a musical grammar.

Calvé, Madame Emma (b 1866). One of Europe's most famous prime donner, made her first appearance as Magnerite in Gomod's "Faust" at Brussels in 1882; sing in Muscagnis "Cavalleria Rusticana" at Covent Garden ten years later. Her greatest part is Carrien.

greatest part is Carmen.

Calvarley. Charles Stuart (1831-1854), was educated at Harrow and Oxford, and from 1868 to the time of his death pul lished numerous verses, and

translations, which enjoyed much favour. As a writer of society verses he particularly excelled.
Calvin, John (150-154), one of the leading Reformers of the 15th century. Was born in Picardy and attained great popularity as a pracher in Paral, but was expelled, and subsequently lived at Geneva where he continued to preach the new doctrine given, it that special share which resulted in the where he continued to preach the new docume giving it that special shape which resulted in the ionization of the Calvinist body, distinguished by its greater austerity from that of the Lutherani. Carnbon, M. Paul (b. 1843), French Ambassador ir I ondon from 1898, and one of the authors of the French Treaty with creat Britain. Cambridge, H.R.H. the Duke of (1879-1904), wis grand-on of George III, and cousts to Queen Victoria. Futered the British Army in 1837, receiving the rank of colonel, and held various appointments in Ireland and elsewhere. In 1844, four years after

in Ireland and elsewhere. In 1854, four years after he had succeeded to the dukedom, was sent to the Crimea to take up a command, and was present at the battles of the Alma, Balaklava and Inkerman In 1862 was appointed Commander-in-Chet, a post which he held with no little distinction for 33 years

which he held with his mide distinction is 55.

Camden, William (1551-1623), an antiquary, his torian, and master of Westminster School, whose researches, especially in the field of topography have been of the greatest value. He became Clarenceux King-at-Arms, and was buried in Westminster Abbey. The Camden Society is named after him.

Cameron, Richard, one of the Scottish 17th century preachers who raised the standard of revol: in defence of the Solemn League and Covenant; he was after many vicusatudes, slain in combat near Aird's Moss, Ayrshire, in 1680. The members of the Reformed Presbyterian Church were afterwards

Reformed Tresbyterian Church were anterwards called Cameronians.

Cameron. Verney Lovett (1844-1894), a noted African explorer who was the first to cross the African continent from east to west. Explored Lake Tanganyika, and made many valuable geographical discoveries. In 1872 went out to find Laungstone.

and in 1873 met a party of natives bearing the dead body to the coast.

Camillus, Marous Furius, was five times. Dictator of the Roman Republic, a supporter of the patrician order, and one of the most successful of the Roman generals. He died of the pestilence,

the Roman generals. He died of the pestuence, B.C. 365.

Camoens, Luis de (1524-1579), the author of the "Lusiad," the great epic poem of Portugal, which sets forth the adventures of the discoverers of India, and celebrates the achievements of the principal personages in Portuguese history.

Campbell, John, Baron (1779-1861), an eminent lawyer who entered Parliament in 1830. Became Attorney-General in 1834, Irish Chancellor in 1845. Chief Justice of the Queen's Bench in 1850, and Lord Chancellor in 1859. He inaugurated important legal

reforms in connection with newspaper libel and the power of arrest in cases of disputed debt; and also wrote the Livas of the Lord Chancellors and the Lives of the Chief Tustices.

Campbell, Raw. R. J. (b. 1867), one of the popular Congregationalist preachers of the day, and paytor of the City Temple, London, succeeding the late Dr. Parker. A man of great earnestness and elequence, and one of the religious forces of the time. A keen political of Socialistic tendencies, and propounder of what is called the "New Theology."

Campbell, Thomas (1777-1844), the well-known

propounder of what is called the "New A 10201821.

Campbell, Thomas [1777-1844], the well-known poet who at twenty-two published "The Pleasures of Hope," a British classic. Many of his lyrics and songs take high rank, notably "Ye Mariners of songs take high rank, notably "Ye Mariners of England," "Hohenlinden," "The Battle of the Baltic," and "The Exile of Erin." He was granted a Crown pension of £200 a year, and was buried in Westminster Abbey.

Westminster Abbey.

Campbell-Bannerman, Rt. Hon. Sir Henry
(1896-1968). Premier and First Lord of the
Treasury in the Liberal Munetry formed by him in
December, 1908, until shortly before his death in
April, 1908. Was educated at Glasgow University
and Trinity College, Cambridge. Entered Parhament in 1868. From 1891-1894 was Financial Secretary at the War Office and again from 1880-1882;
Secretary to the Admirativ 1889-1884; and Chief
Secretary for Ireland 1884-1883. In 1880 he was Mr.
Gladstone's Secretary for War, and filled the same
office also in 1802-1803 under Lord Rosebery. Upon office also in 1892-1895 under Lord Rosebery. Upon the defeat of the Rosebery Ministry in 1895, Sir the defeat of the Roschety Ministry in 1895, Sir Henry was forced mro Opposition, and was closen subsequently to succeed Sir William Harcourt as Leader of this Party. He hecame Prime Minister at the close of 1905, and formed a Government which received a very large majority at the ensuing General I betton. A statue of Sir Henry was unveiled at Stilling by Mr. Asquith, Nov. 1, 1973. Canning, Charles John, Earl and Yiscount 1812-1852, third son of George Canning, was Post-mister-General 1853-1855, and Governor-General of india 1852-1856.

master General 1883-1855, and Governor-General of inda 1885-1856.

Canning, George (1770-1827), entered Parliament in 1793 and became 1 great orator and a devoted adherent of Pitt, under whom he served first as Under-Secretary of State and later as Treasmert to the Navy He was Secretary for Foreign Affairs under the Parke of Portland, and in 1897 became Trime Minister, but died four months there.

Canning, Visicount Stratford de Redollife (1786-1896), cousin of George Canning, was the disinguished diplomatist who carried out many difficult and delicate missions abroad with brillant success.

and delicate missions abroad with brilliant success, and was apostrophised by Tennyson as "the voice of England in the East." The statues of the three Cannings stand side by side in the North Transept

of Westminster Abbey.

Canova, Antonio (1757-1822), an Italian sculptor, whose influence was lighly marked, and whose works achieved the first emmence. In 1802 was appointed chief curator of Roman works of art by Pope Pius VII., and afterwards was made Marquis of Ischia.

Canterbury, Archbishop of. (See David-

son.)

Canute the Great (905-1038), invaded England with a Dansh force, and in ror3 succeeded in dethroning Ethelred the Unready, and setting up his own father, Sweyn, in Ethelred's stead. Sweyn dying in 1044, Canute claimed the crown, but it took him some years to firmly establish himself. He developed into a wise and beneficent sovereign, and selemed until tree peculiar. reigned until 1035 peacefully.

reigned until ross peacefully.

Caracalla, Marous Aurelius (A.D. 188-217), a
native of Gaul, who became Romen Emperor in
succession to his father, Severnis, when the latter
died at York in 211. Caracalla madesevil use of his
supportunities, proved hinself excessively selfish and
cruel, and was assassinated by one of his guards.

Caractacus was the name by which a Prince of
ancient Britain became famed for his resistance to
the Romans in the sat century. He was ultimately
captured and taken prisoner to Rome, where the

Emperor Claudius was so moved by his dignity of bearing that he pardoned him.

Caraw, Bamfylde Moore (1693-1770), the son of a Devonshire clergyman, acquired notoriety by long association with gypsies, who styled him their "King. Caraw," Thomas (1890-169), a poet of great tenderness whose graceful songs were highly popular in their day, and long retained their place in collections of British poetry.

Caray, Henry, was an illegitimate son of George Savile, Marquis of Halifax, and was very popular for a number of years as a writer of light dramatic pieces, in which lyrics formed a chief feature. His best known song is "Sally in Our Alley," still familiar to everyone. He died in 1742.

Carey, William, D.D. (1761-1831), the first Baptist milssonary to proceed to India, and from 1800 to

missionary to proceed to India, and from 1800 to 1830 Professor of Oriental Languages at Port William College, Calcutta. Became famed as an Oriental scholar, and published twenty-four different

Oriental scholar, and published twenty-four different translations of the Scriptures.

Carleton, William (1708-1869), an Irish novelist whose stories had great vogue during the first half of the 17th Peasantry are probably unequalled in true depiction of the lives, trials and humours of the Irish people of the movelist's time. He for many years subved a rown pension of feas.

enjoyed a crown pension of £200.

Carlile, The Rev. Prebendary W. (b. 1827), is Rector of St. Mary-at-Hill, and founder of the Church Army, which was started in 1822, and has nipwards of 800 trained workers, the organisation

inpwards of 80c trained workers, the organisation involving an expenditure in mission work, distributions and rehef of £170,000 a year. Mr. Carile is an indefatigable worker in this cause. Carlisle, Bishop of. (See Digile.)
Carlyle, Thomas (1795-1881), was aducated at Ediniungh University, and, after passing through some vears of teaching drudgery, settled in London in 1824 and began the care of a ser ons man of letters; but, marrying Jane Welsh in 1226 he returned to Scotland and spent the next few years on a farm at Craigenputtoch, coung to London again in 1834. Meanwhile he had written much that had attracted serious attention in the highest literary circles, and was generally regarded as equipped for attracted senous attention in the highest literary cricies, and was generally regarded as equipped for finitie literary greatness. His Sartor Revarius was published in 183 1834. In 1837 he gave a series of instorical lectures in London, and in 1839 his Charrism appeared. From that time forward his pen never relaxed. His French Revolution, Past and Present, Life and Letter of Oliver Cromwell, Latter-Day Pamphilets and Frederick the Great were works of higher conception, of undoubted brilliance, and lotty aspiration.

brilliance, and lotty aspiration.

Carmen Sylva, b. 1843, the pen name of the Queen of Rounaum, who has achieved no small fame as a poetess, and for good deeds and noble

charities.

Carnegie, Andrew (b. 1835 in Dunfermline, Scotland), emigrated to America with his father in Scotland), emigrated to America with his father in r888, and after passing through minch menual employment became connected with the Pennsylvania Kailroad, as Divisional Superintendeut at Pittsburg, and ultimately established the Carnegue iron works, from which he retured in 1991 with a fortune of many millions. His munificent gifts for Free Libraries, educational work, and charitable objects generally are well known. In 1973, at the opening of the Palace of Peace at the Hague, of which he bore the cost, he was the recipient of many honours. His Scotch seat is Skibo Castle, Sutherlandshure.

arnot, General Legare (1753-1823), was a

Scotch seat is Skibo Castle, Sutherlandshire.

Garnot, Genaral Lagare (1753-1823), was a
prominent figure in the French Revolution, and
member of the Committee of Public Safety under
Robespierre. Later on was Minister of War under
Napoleon, while the latter was Consul.

Carnot, Marie Francois 5. (1837-1894), grandson
of the last-named. Elected to the French National
Assembly in g879 and in 1889 became President of
the Republic. Was assassinated by an Anarchist at the Republic. Vas assassanated by an Anarchist at Lyons in 1804. Caroline, Queen, wife of George IV. (1768-1821), was married to her husband in 1795 while he was

Prince of Wales. The Royal couple lived together only a very short time. When George succeeded to the throne in 1820 the Queen took steps assert her position, and the King retailated by having a Bill introduced to dissolve the marriage; the result was the famous trial before the House of Lords, when Lord Broughton distinguished himself by a most cloquent defence of the Queen. The Bill was passed by a narrow majority, but public feeling was too strong on the side of the Queen to admit of its being enforced, and she died the following year.

Garpenter, William Benjamin (1813-1885), an eminent doctor and scientist, whose Principles of Physiology is a standard text-book, and whose deepsea dredging expeditions yielded rich results.

Carrington, Earl of. (Sec Lincolnuhire,

Carrington, Blarl of. (See Lincolnumire, Marquess of.)
Carson, Rt. Hon. Sir E., M.P. (b. 1854), has had a highly successful cureer first at the Irish and then at the English Bar, heng called to the former in 1873 and to the latter in 1893. Was elected M.P for Dublin University in 1892: in 1900 was made Solicitor-General and kinghted. Was before that first Solicitor-General and then Attorney-General in Ireland. From 1912 to the outbreak of the war in 1914 led a semi-militant organisation in Ulster against the Home Rule Bill.

Cartier, Jacques, the famous 18th century navi-

against the Home Rule Bill.

Bartier, Jacques, the famous 15th century navigator, born at St. Malo, whose exploration of Canada, and especially of the gulf and river of St.

Lawrence, proved of great geographical importance.

Cartwright, Edmund, D.D. (1743-1823), was rector of Goadby Marwood, and while visiting Buxton had his attention drawn to certain mechanical. cal problems, and setto work and invented the power toom, and later on also invented a wool-combing noom, and later on also meented a wool-contains machine. Although these uventions were ultimately developed into fortune-making instruments, they be mefited their inventor but little, and in 1800 Parliament made him a grant of £70,000. In 1904 a Cartwright Memorial Hall was opened at Bradford, the gift of Lord Masham, in commemoration of Cartwright's achievements.

Caruso, Signor, the celebrated tenor, was born in Florence, and made his first operatic appearance in his native city. His success has been unbounded. Besides being a great singer, he is a man of many activities, and, among other things, is a clever caricaturist.

caricaturest.

Casabianca, Louis (1754-1798), captain of the French flagship L'Orient at the battle of the Nile. He and his ten-year-old son died together in the burning ship, refusing to quit the vessel.

Cassel, Rt. Hon. Shr Ernest, G.C.B., P.C., etc. b. 1822), one of King Edward VII.'s personal triends, and a great financier. Endowed, in his Majesty's name, a sanatonium for consumptives at a cost of £000,000. He made a gift of a similar amount for the benefit of poor Germans in England and poor Familish in Germany. English in Germany. Cassius, Longinus, a distinguished Roman general

Cassius; Longinus, a distinguished Roman general who opposed the Dictatorship of Julius Cesar, and took part in his murder. He died in 42 B.C., after being defeated by Mark Autony.
Castiareagh, Lord (1769-1822), British Minister of War and Foreign Secretary during the Napoleonic wars, who incurred much unpopularity because of the disastrous condition of home affairs. Succeeded to the Marquisare of Londonderry in 1821, and ended his life by suicide the following year.
Cathering, St., was the name borne bone celebrated virgin of Alexandria, who was put to death in gof for professing Christianity, heing, according to

brated virgin of Alexandria, who was put to death in got for professing Christanity, being, according to some accounts, tortured on a spiked wheel before execution, though other authorities are that the intended torture was miraculously prevented. From this we get the term "St. Catherine's wheel." He festival is on November 25th.

Catherine of Aragon (1487-253)s first wife of Henry VIII., having previously been the wife of Arthur, Henry's elder brother, who died shortly after the marriage. She was the daughter of Ferdinard and Isabella of Spain. The king divorced her in 1526.

Catherine II., Empress of Russia (1789-1796), wife of Peter III., who was murdered; succeeding him, she proved herself a capable ruler for a time, but ultimately gave way to licentious excesses, which almost rulned Russia by their heavy cost. She was called the "Semiramis of the North."

Catherine de "Hedici (1879-1869), wife of Henry II. of France, and a woman of cominanding power and influence, especially during her Regency, which continued while her son Charles IX was in his minority. Herantscomism to the Protestants led to the Massacre

Her antagonism to the Protestants led to the Massacre of St. Bartholomew. In spite of her cruelty, she was an able woman, and showed a great appreciation

was an able woman, and showed a great appreciation of art and literature.

Catilline, Lucius Sergius (108-52 B.C.), made himself notorious for the conspiracy he plotted, but failed to carry to success, against the Consul Cicero. He was impeached before the Senate, expelled from Rome, and ultimately slain in battle.

Cato, Marcus Porolus (234-149 B.C.), a Roman statesman, soldier, and writer, of strict virtue, simplicity and wisdom, who strongly condemned the luxury of his time. He was surnamed "the Censor."

luxury of his time. He was surnamed "the Censor." He wrote a history, still extant in fragments. Cato, Marous Porolus, the Younger (95-46 B.C.), great-grandson of the last-named; a ferr some military experience was elected Tribune, and on the outbreak of the Civil War in 49 sided with Pompey. Being in danger of capture, he retired to his tent, read portions of Plato's Phadro, and then slew himself rather than be taken by the enemy. Cattermole, George (1800-1888), a noted book-illustrator and water-colour artist, whose drawings for Scoti's novels. Shakespeare's plays, and other

mustator and water-trion arist, whose trawings for Scott's novels, Shakespeare's plays, and other works were marked by much delicacy. Catullus, Catus Walerius (9-54 B.C.), an elegant Roman poet, whose lyrics to 1.esbia are amongst the finest compositions, of the kind in literature.

Cavaignao, Eugana Louis (1882-1857), a pro-minent French general of Republican principles who, on the outbreak of the Revolution of 1848, wa made Dictator of Paris, and unsuccessfully opposed Louis Napoleon for the office of Fresident. After that he

Napoleon for the office of President. After that he lived in retirement, and refused to take the oath to the Emperor after the Coup d'État.

Cavendish, Lord Frederick Charles (1835-1832), adopted a political career, and gave promise of future eminence, but in 1882, after being appointed Chief Secretary for Ireland, was assassitated along with Mr. Burke in Phomix Park.

Cavendish Six Thomas (1975-1976) an adven-

with Mr. Burke in Phornix Park.

Gavendish, Sir Thomas (1557-1902), an adventurous English navigator who, in addition to adding considerably to the geographical knowledge of his time, made many daring attacks upon the Spaniarda and secured nuuch hooty. He died at sea.

Gavour, Count di (1810-1801), a distinguished Italian statesium, who, as Premier and adviser to Victor Emmanuel, did nuch to secure the unification

or taly.

Cawdor, Earl (1847-1911), an Ecclesiastical Commissioner 1895-1905, chairman of the Great Western Railway, and First Lord of the Admiralty, xog.

Caxton, William (1422-191), was born in Kent and employed in commerce for a time. While visiting Flunders he obtained an insight into the then new

Funders he obtained an insight into the then new invention of printing, and afterwards set up a printing-press of his own at Westminster, where he published a number of black letter books.

Cecil, Lord Hugh, M.I. (b. 1869), son of late Marquis of Salisbury, was educated at Eton and Oxford, and represented Greenwich in Parliament 1895-1906, proving himself a clever debater and a Free Trader. He was elected M.P. for Oxford University in 1010.

University in 1020.

Getil, Lord Robert, M.P. (b. 1864), fourth son of the third Marquis of Salisbury, whose private Secretary he was. Took an active part in the Home Rule and Welsh Deestablishment discussions, and was a prominent member of the Marconi Committee. Sat for East Marylebone from 1906 to 1910. Returned

for Histohin, 1911.

Cecilia, St., the patron saint of music. Was a
Christian martyr of the 3rd century. She is said to
have been the first to introduce instrumental with

vocal music into Christian worship. Her festal day is November 22nd.

is November 22nd.

Cardio, a Saxon who invaded Wessex in the early part of the 6th century, and made himself ruler of that kingdom, becoming ancestor of the English Royal line. He conquered the Isle of Wight in 520.

Carrantes (1547-1676), fanous throughout the world as the author of Don Quixate. He had a most adventurous career, taking part in many military expeditions, and not turning to literature until his selections of the control o retirement from the profession of arms. In spite of the great success of his work, he died in poverty.

Chad, St., was Bishop of York and subsequently of Mercia in the 7th century, and won much renown for his prety and learning.

his piety and learning.

Chalmers, Sir Mackenzie Dalzeli, K.C.B.,
C.S.I. (b. 1847), was permanent Under-Secretary of
State for the Home Department 1903-3. Educated
at King's College, Loudon, and Oxford, and is a son
of Dr. F. S. C. Chalmers. Called to the Bar v809
and has zerved the offices of Revising Barrister,
Counsel to the Board of Trade, County Court Judge,
law member of the Council of the Vicercy of India,
and Chief Justice of Gibraltar.

Chalmers. Thomas. D.D. (1980-1810) a Schrich

and Chief Justice of Gibratur.

Chalmers, Thomas, D.D. (1780-1847), a Scottish
Free Church Minister and philosopher who made a
great name as preacher and writer on theology.

Chamberlain, Rt. Hon. Joseph (1836-1014). was born at Camberwell Grove, London. Made a fortune in screw manufacture in Birmingham, after which he did much active municipal work at Bir-mingham. In 1876 he entered Parliament, and minghain. In 1876 he entered Parliament, and became a national political figure. At first he was an enthusiastic Liberal with Republican tendencies, and served various offices under Mr. Gladstone. When served various offices under Mr. Gladstone. When the Home Rule spit occurred, he became the most active member of the Liberal-Unionist party. In 189, he accepted office as Secretary of State for the Colonies under Lord Salisbury, and in that post won a great reputation, notwithstanding the fact that during his term of office he had the Boer War to contend with, and that outside his own party he was regarded as being the chief author of the trouble. In May, 1903, he caused great sensation by suddenly advocating a scheme of fiscal reform, involving a partial return to Protection. This policy, for the better advocacy of which he resigned the Colonial adopted as one of the leading planks of the Unious platform. Mr.

the leading planks of the Unionst platform. Mr. Chamberlain was incapacitated by illness from parha-

chamberlain, Rt. Hon. J. Kusten, M.P. (b. 1863), eldes from of Mr. Joseph Chamberlain, Rt. Hon. J. Kusten, M.P. (b. 1863), eldest son of Mr. Joseph Chamberlain, was educated at Rugby and Cambridge, and has represented to the chamberlain of the control of the chamberlain of the c sented East Worcestershire since 1892 Has filled the positions of Civil Lord of the Admiralty, Financial Secretary to the Treasury and Postmaster-General, and in 1903 became Chancellor of the Exchequer, which position he sustained until the Liberals came into power at the end of 1905.

Chambers, Robert (1802-1871), the younger of the brothers William and Robert Chambers, the wellknown publishers of popular literature and founders known publishers of popular literature and founders of Chambers's Formal. Eurly showed literary gifts and, besides being a chief contributor to the Fournal and other publications issued by the firm, was the author of Vestiges of Creation, a work published anonymously that went through many editions before its author's name was known. Chambers, William (1800-1883), brother of the lastnamed. Was the business genius of the firm, and by hishigh character and public spirit was much esteemed by his fellow citizens, becoming Lord Provost of Edinburgh, and living to receive the offer of a baronetcy, which he died before he was able to accept. Chambers, Sir William (1726-175), a British

baronetcy, which he died before he was able to accept. Chambers, Estr William (1726-1763), a British architect, who rebuilt Somerset House in 1775. Chamberd, Henri Charles, Confee de (1820-1883), son of the Duc de Berri, was regarded as the Bourbon claimant to the French throne after the overthrow of Napoleon III., and there were times when success seemed almost within his grasp, but he allowed opportunities to pass, and lived in retirement during the later years of his life.

Champiain, Samuel de, a French navigator who founded Quebec in 1668, and in the following year discovered the lake known by his name, Chancellor, Richard, the trade ploneer and seaman, who in 1853 made his way to Moscow and negotiated a trading treaty for England with Russia, and led to the formation of the Muscovy Company. Channing, William Ellery (1760-1818), an American Unitarian minister and writer, whose efforts in the cause of slavory abolition were greatly appreciated, and whose sermons and writings displayed great power and earnestness. His nephew (also called Wham Ellery) was a gifted journalist, poet, and general writer (1818-2011). Chankeay, Sif Francis (1767-1811), a renowned English sculptor who contributed many fine statues to Wakminster Albey and St. Pauls. He was made an R.A. in 1818, and received a knighthood in 1830. He left a constitierable fortune to the Royal Academy, to take effect after Lady Chantrey's death, and to be

He left a considerable tortune to the Koyal Academy, to take effect after Lady Chantrey's death, and to be appropriated in the purchase of works of art for the encouragement of sculpture and painting.

Chaplin, Rt. Hon. Henry, M.P. (b. 1841), entered Parliament in 1868 and sat as a Lincolnshire county member for thirty-eight years; during which period he successively filled the offices of Chancellor of the Darbert Revisions of the needed. Duchy of Lancaster, President of the Board of Agriculture, and of the Local Government Board. Has been a consistent Protectionist from the first, and advocated Mr. Chamberlan's subsequent Fiscal Policy long before that gentleman had any thought of abandoning Free Trade. Mr. Chaplin has perhaps won more renown as a sportsman than as a politician. He lost his old seat in 1906, but has sat for Wimbledon since 1907.

Chapman, George (1559-1634), an Elizabethan dramatist, who acquired more fame by his translation of Homer than by his plays Keats's somet on reading Chapman's "Homer" is a splendid tribute to the old dramatist.

to the old dramatist.

Charlemagne (1/42-814), the celebrated ruler, general, and statesman, who from being K 'og of the Franks became Emperor of the Romans, and governed an empire comprising Gaul, Italy, and large parts of Spain and Germany. His rule was as wise as it was powerful

Charles Edward (Stuart), the "Young Pre-tender" as he came to be called (1720-1782), grandson of James II., and the hero of 1745, lived in exile after Culloden, and his later career was mainly

one of dissipation.

Charles I. (1600-1649), succeeded his father James I. as King of Fngland in 1625, and from the first was in more or less conflict with Parliament. His in more or less conflict with retination to the monetary demands and unjust taxation led to the volent opposition which resulted in the Civil War, which is known to every reader of the story of which is known to every reader of history. He was behended in front of the Banqueting House at Wiltelaul, Jan. 30, 1049. Charles II. (1590-1695). Way in command of the Royalist forces in the West during the Civil War,

and escaped to the Continent after Naseby. Subsequently he became the King at the Restora-tion, and, following upon the sober quietude of the Commonwealth period, formed an acceptable change commonwealth period, formed an acceptance enange to the people at large until, by his excesses, of one kind and another, he proved his unkingliness of character. He contrived to keep himself fairly popular, however, despite his extreme selfishness.

popular, however, despute his extreme seinsmess. Charles V. (1500-1568) was the dominating European figure for many years, being Emperor of Germany and King of Spain, at a time when his tactful policy enabled him to guard the interests of both Catholics and Protestants with considerable success.

Charles XII. of Sweden (1682-1718) was a brave of the considerable was distributed by the considerable with the considerable was distributed by the considerable was

Charles XII. of Swedon (1622-1718) was a brave but impulsive monarch whose rule was distinguished for a fearless and often toolhardy policy of war, in the execution of which he sometimes sustained serious defeat. Peter the Great was victorious over him at Pullowsa, and he was killed at the slege of Frederickshall, Norway.

Charlotte, Princess Augusta (1706-1871), only daughter of George IV., married Leopold I. of Belgium in 1816 and died the following year.

Chassepot, Antoine, was the inventor of the breech-loading rife bearing his name, and used by the French army against the Germans in 1870-1871, but now long superseded.

Chateaubriand, François René (1708-1848), had an adventurous and somewhat eccentric political nad, an adventurous and somewhat eccentric political career, but in the midst of it all he contrived to write a number of stories, poems and essays, which give him a promnent place in French Incrature. His Atala and The Martyrs are works of genus. Chatham, William Pitt, Earl of (1708-1778), had a long and distinguished career as a state-in-in, and

was the most eloquent Parhamentarian of his time. In the long conflict with France that preceded the American War of Independence, Chatham showed great resourcefulness and vigour, but his patrious forts were of little avail ag unst the obstmacy of the King and his party, and he ultimately retried from contention, only making a last appearance in the House of Lords to urge a greater resistance to the Auterican Colonists, and, after a powerful speech, fell back in an apoplectic fit and died a few weeks later, being burned in Westminster Abbey.

Chatterton, Thomas (1752-1770), 'the marvellous boy who perished in his pride,' was the son of a Bristol sexton, and astonished the world as a youth in an old numment chest in the Church of St. Mary. Redchife. These writings were afterwards proved to be the composition of Chatterion humself, and at once gave him a position as a poet. He went to London, but hire with such ill success that in his despair he poisoned humself.

Chaucer, Geoffrey (11162 1340-1400), known as the "Father of English poetry". Achieved immortality hy his "Canteroury Talos," supposed to be related by different classes of pilgrins, and giving a most graphic description of the life and characters of his time. He was buried in Westminster Abbey

Chelmsford. Bishop ot. (See Watts-Ditch-field, The Rt. Rev. J. E.)

Cherubini, Maria L. Zenobi, C. S. (1700-1842) an Italian musical composer who spent the best part of his lite in Paris, and there wrote operas, Masses, and other compositions matinet with melodic

masses, and other compositions instinct with melodic grace and ferrour of expression.

Chester, Blahop of. (See Jayne.)

Chester, Flaid, Earl of (1004-1773), the fourth Earl, and a statesman of note. His fame rests, however, upon his Letters to his Son, which for purity of style and grace of expression have seldom been excelled.

though the moral they point is not always one that modern ideas would endorse.

Chesterton, G. K. (b. 1874), one of the most active of our younger writers. Contributes a weekly essay to the Illustrated London News and keeps humself in evidence in many hterary and journalistic. quarters; handles social questions, art, politics, and criticism with equal dextenty and andacity. Has published studies of the lives and works of Robert

Browning and Charles Dickens

Cheyne, Rev. T. K., D. Litt, P.D. (b. 1841), Fellow of Balliol College, and in 1885 appointed Oriel Professor at Oxford, and Canon of Rochester. Was a member of the Old Testament Revision Company, and is a well-known and problic writer on Biblical

and is a well-known and profile writer on Biblical subjects. One of his latest works, published in 1907, was Traditions and Releft of Ancient Israel.

Chilling worth, William (1902-1944), a divine whose Religion of Protestants was an influential book. Had a rather curious career, in later life being converted to Romanism from Protestantism, and then turning to Protestantism again and joining the Royal forces on the breaking out of the Civil War, when he was taken proponer and their

when he was taken prisoner and died.

Chilston, Viscount (formerly the Right Hon. A. Chilaston, YISCOUNT (tormerly the Right Hon. A. Akers-Douglas) (b. 1851). Conservative statesman, who served in turn as Parliamentary Secretary to the Treasury. First Commissioner of Works, and Home Secretary. Was also an efficient Party Whip. Raised to the Peerage, 1911.

China, Dowager Empress of (1835-1908), was a slave child, afterwards found her way into the

Emperor's harem, and after a time was promoted to the position of leading wife. On the Emperor's death she became Regent, an office which she filled with much administrative ability until the termination of the late Emperor's minority in 1893. In 1893 step to November, 1908, when they both died suddenly. Chippendale, Thomas, a celebrated designer of turniture whose examples are now highly prized and fetch big prices. He was a native of Worcester-hire (horn in 1760), but made his name in London, having a sliop in St. Martin's Lane.

Chirol. Sit Valentine (b. 1852), director of the foreign department of the Times, 1899-1912, and a writer of Special weight and authority on Eastern

writer of special weight and authority on Eastern

Chisholm, Hugh, editor of the "Encyclopædia Britaniica" (b. 1806), educated at Felsted and Oxford (Corpus Christi), is on the editorial staff of the Trives, and a frequent contributor to the chief reviews

Choate, the Hon. Joseph Hodges (b. 1839), an enment American lawyer and politician, who was United States Ambassidor to Great Britain from 1300 to 1905, and filled the position with great dis-tunction. Mr. Choate is a consin of Rufus Choate, a great American lawver (1799-1859) who succeeded

great American lawer (1797-1869) who succeeded Damel Webster as a Senator in 1843.

Chopin, Frederic F. (b. at Warsan, 1809, d. in Paris, 1809). A celebrated composer and panist, who settled in Paris in 1841 and minrediately took up a prominent position, and in the next few years give to the world some of the most beautifully fixemating.

to the world some of the most beautifully fiscinating compositions for the pano ever written. He lived a life of romance, and field of consumption at 30 Christie, Sir W. H. M. (b. 1845), was educated at Trinity College, Cambridge, of which he became a Fellow. In 1875 was appointed Chief Assistant at the Royal Observatory, and was Astronomer Royal from 1828 to 1976. Has written a Manual of Jensentary Astronomy, and is the preenter of the internal control of the light of the control valuable in provements in instruments of astral observation. Made K.C.B. in 1904

Christopher, St., was a marryr of the 3rd century, to whom are it leads of strength were attributed; he belongs both to the Roman and Greek Churches. His festival day in the former is July 25th and in th latter M 1y oth,

Chrysostom, St. John (347-407), a prominent tather and sunt of the treck Church who wis made Archbishop of Constantinople and was funous for

his elequent preaching and persuasive writing.

Churchill, Lord Randolph (1849-1963) was the second son of the sixth Dike of Marihorough.

Entered Parliament in 1874 and four years later became prominent on the Conservative side for his scathing attacks on what he called the "Old Gang of his own Party, and was one of Mr. Gladstone's most severe critics. In 1832 he became Secretary for India, and in the following year was Chancellor of the Exchequer and leader of the House of Commons, but after a few mouths of brilliant work Commons, but after a few months of brillant work resigned on some difference of opinion with his colleagues, and never again held office. After 1897 fail-ing health thumushed his powers, and he deed in 1895, without having quite fulfilled his splended promise.

without having quite fulfilled his splendad promise. Churchill, Rt. Hon. Winston S., M. P., Irist Lord of the Admiralty 1917-15 (b. 1844), som of the last-named, has since his mirretenth year heen a prominent public figure. He went through the Spanish Campaign in Cuba. Was with the British force during the Ludian frontier troubles of 1897-1898. erved in the Soudan Campaign, and during the Boer served in the Soudan campaign, and during the noer War had many dramatic adventures and wrote some excellent letters to the papers. During the last few worked hearthy for the Conservatives until Mr. Chamberlain brought out his Fiscal proposals, when them in the most emphatic he declared against them in the most emphatic manner, and eventually joined the Liberal ranks. In 1005 was appointed Under Secretary for the Colonies, and has since been a leading member of the Liberal Government in the House. In 1908 was made President of the Board of Trade, and, losing his seat at Manchester, was returned for Dundee. Became

Home Secretary in succession to Lord Gladstone on the latter being appointed to the Governor-General-ship of South Africa in 1910. Made a Privy Councillor in 1907. Has proved a resourceful and indefatigable First Lord.

Cibber, Colley (1671-1757), a London actor and dramatist of great repute in his day. "The Careless Husband" and "Love's Last Shift" are considered the state of the control the best of his consedies. He was Poet Laureate from 1730 to his death.

rrom 1730 to his death.

Gloero, Harrous Tullius (106-43 B.C.), a great
Roman Republican orator and philosopher, whose
works won him great fame and are assured of immortality. His younger brother, Quintus Tullius
Cicero (102-43 B.C.), was a Roman solidier of some note.
Both were slain.

Gld, the name given to the famous Spanish knight, Don Rodrigo Diaz, Count of Rivar (1226-1209), whose exploits in battle and adventure made him the national hero. He drove the Moors out of Spain before he had completed his twentieth year.

Cimabue, Giovanni (1240-1302), a celebrated Florentine painter, master of Giotto, and the leader of the movement which led to the formation of what is called the Florentine school. His frescoes

are of great beauty.

Cincinnatus, Lucius Quinctius (519-439 B.C.), Cindinnatus, Lucius Quinctius (570-439 B.C.), a noble Roman of sumple life who was chosen Dictator while following agricultural jursuits, and led the Roman army against the X-punans and quickly defeated them then, after only sixteen days of Dictatorship, he returned to his farm. He was called upon to fill the office a second time, twenty years later, at the age of 80, but died shortly afterwards.

Clare, John (1793-1864), a humble Northamptonshire peasant poet, whose "Poems of Rural Life and Security" and "The Village Mistart" contain the title of the period of the control of the cont

come very beautiful sentiments and depictions. His

Some very beautiful sentinents and repictions. Fits later years were spent in a lunatic asylum. Glarandon, Edward Hyde, 1st Earl of (1609-1674), a statesman of great ability who filled the office of Lord High Changellor under Charles II., and for a time was in high favour, but, retissing to pander to Charles's whims, was dissussed and went to live in retirement. His History of the Rebellion is a valuable work, having the advantage of being written by one who was a winess of, and often an important figure in, the wents described. His daughter Anne was the wife of the Duke of York, afterwards James II., and it was het drughter who became Queen Anne. Clarendon died in exile at

Rouen.

Clarendon, George Wm. Fredk. Villiers,
4th Earl of, 1800-1870), an English diplomative and
statesman; Minister to Spain 1833-1839, Lord Privy
Seal in 1800, and subsequently Lord Liceitenant of
Ireland, Plempotentiary in Paris, and three times
Foreign Secretary under Palmerston, Russell, and
Gladstone respectively.

Clark, Sir Andrew, Bart. (1826-1893), one of
the most distinguished doctors of his day, who
became physician to the London Hospital in 1854,
and soon afterwards acquired one of the largest
practices in fashionable London, and was a great
authority on lung diseases. Sir Andrew was a

authority on lung diseases. Sir Andrew was a

Clarke, Sir Edward, K C., P C. (b 1841), one of the most enquent counsel of the day Entered Parhament in 1880, and was Solicitor-General from 1886 to 1892. At the General I lection in 1900 he was returned for the City of Lowlon, with the Hon. A. Gibbs, the latter shortly afterwards retring in favour of the Rt. Hon. A. J. Baffour, who had been defeated at Manchester. Sir Edward eventually resigned has seat. He received his carly education at the City

of London College and evening classes of King's College, London. Retired from the lat., 1914. Clarke, Sir George Bydenham. (See Bydenham, Lord.)
Clarkson, Thomas 1:760-1846), was one of the leaders of the Negro Emancipation movement, to a which he devoted the main part of his life.

Clarks of Lorenta (1905-1846), the most famous

Claude of Lorraine (1600-1682), the most famous landscape painter of his century. His real name was

Claude Gelée, and he was born at Chamange in the Vosges, going from France to Rome as a lad, and there laying the foundation of his world-wide celebrity. He lived in Rome most of his life. Claudius I. (to B.C.-A.D. 54), Emperor of Rome, who succeeded his nephew Calgula. He was the grandson of Tiberius Claudius Nero, erected many imposing buildings in Rome, and visited Britain. In his later years he became the tool of favourites, and was poisoned by his wife. Arripoina.

ms after years he became the tool of lavourtes, and was poisoned by his wife, Agrippina.

Clay, Frederic (1840-1839), an English musical composer of light operas of a vory tuneful character. Best known by his "Princess Toto" and "The Merry Duchess."

Merry Duchess.

Clay, Henry (1777-1852), an American orator and politician, three times candidate for the Presidency of the United States, and long Speaker in Congress. Served also as Peace Commissioner at Ghent, and was author of the Compromise Tariff of 1833.

Clemenceau, Georges Eugene (b. 1841), a pronment French states and editor of strong Radical tendencies who supported General Boulanger for a time and then bitter'v opposed him. Is still a leading exponent of French Radicalism, though he sacrificed his independent position to become Premier and Minister of the Interior in October, 1906,

Premier and Minister of the Interior in October, 1906, after he had had a large hand in the making and unnaking of Governments for over three decades. He held the Premiership until 1909. He is a great orator, and was a sturdy defender of Dreyfus. Clemens, Samuel ("Mark Twain") (1895-190). After the Civil War drifted into journalism, making hunself popular as a humoris. In 1889 by his himseent's Abroad, the result of a trip to Europe From that time he was actively employed in producing works of humour and editing. Among his other works may be mentioned A Tramp Abroad, Tom Sawyer, Hinckborry Fishs, and Pudd nhead Wisson. Visited England in 1907 and was made a D.C.I., of Oxford.

Clement, St., Bulsop of Kome in the 1st century, and according to tradition, the third prelate of the

and according to tradition, the third prelate of the Holy See after St. Peter. He was a prominent Preshyterian of the Christian congregation, and is by some identified with the Clement mentioned by St. Paul as his fellow labourer.

Cleon flourished in the 5th century B.C , and from

Fileon flourished in the 5th century B.C., and from being an Athenan demagogue became a successful general. He fell at Amphipols 428 B.C. Cleopatra (6-9 cs. Ac.), the fannous Egyptian Queen whose beauty tax-mated Julius Cæsar, whom she accompanied to Rome. After Cæsar's death, she returned to Egypt and subdue! Antony as she had subdued Cæsar, and on Antony's death ended her lite by poison, the tradition is, by applying an asp to her bosonic. her bosom

Cleveland, Grover (1837-1908), President of the United States from 1885 to 1889 and from 1893 to

United States from 188; to 1889, and from 1899 to to 1897. A strong Democratic statesman, who at the commencement of his second Presidency convened an extra section of Congress which repealed the purchasing clause of the Sherman Silver Bill.

Clifford, Rev. John (h. 1836), world in a lace factory as a boy, entered the General Baptist College in 1895, qualified for the ministry, and became pastor of Praed St. Church, Paddington, afterwards taking degrees at London University. Westbourne Park Chapel, opened in 1897, was the next scene of his ministrations, and he still preaches there. Is an ardent political Nonconformist. Has written numerous religious works, and been twice President of the Baptist Union, and also President of the National Council of Free Evangelical Churches. Clinton, Bir Henry (1738-1795), was one of the

the National Council of Free Evangelical Churches. Clinton, Bir Hanry 1:738-1755, was one of the generals commanding British troops in the American War of Independence and fought at Bunker's Hill, succeeding Howe as Commander-in-Chief. Was afterwards Governor of Gibraltar, where he died. Cliwe, Robert, Lord (1:735-174), went out to India as a clerk in the service of the East India Company when 17, and during the diplomatic difficulties which arose between England and France attracted the attention of his superiors by some able supersettions for attention of his superiors by some able suggestions for the curbing of the French influence. In the war that followed he was given a command and displayed such remarkable military genius that he virtually became Commander-in-Chief. In the troubles that followed with the native rulers, he was equally resourceful, and succeeded in laying the foundation of the British Empire in India on a secure basis. On his return to England in 1760 he was raised to the peerage. His latter years were marked by mental disturbance and ultimately he committed suicide. Blottlida, St. (475-545), was the wife of Clovis, King of the Franks. She converted the king to Christianity and lived so good a life that she was canonised after her death.

canonised after her death.

canonised after her death.

Canonised after her death.

Does of great earnestness of purpose and breadth of mund. His best known poens are "The Bothle" and "The Tragedy of Dipsychus." Matthew Arnold's "Thyrsis" is dedicated to his meñiory.

Clovis (46-5:tr) was the founder of the Merovingian line of Frankish kings, and a convert to Christianity. He defeated the Burgundians and West Goths, and fixed his court at Paris.

Clyde, Colin Campbell, Lord (1702-1862), a British general who served in the Peninsular and Crimean wars, and made a great reputation as Commander-in-Chief in India during the Mutiny, after which he was raised to the peerage and granted a pension of £2.000 a year.

atter which he was raised to the peerage and granted a pension of £2,000 a year.

Cobbe, Frances Power (1822-1904), a talented and powerful writer on a wide range of social and religious subjects, including women's rights and

religious subjects, including women's rights and virisection. She had strong convictions and the full courage of them. She was a native of Dublin.

Cobbett, William (1762-1835), a politician and controversialist, who, through the medium of his Political Register, attacked both Radical and Tory in turn, and by mercless personalities frequently got himself into trouble. In 1832 he entered Perliament as member for Oldham, and by his trenchant speeches and writings always kept himself full in the public even.

public eye.

Cobden, Richard (1804-1865), the son of a Sussex
Cobden, Richard (1804-1865), the son of a Sussex iobdain, Richard (1804-1885), the son of a Sussex farmer, who afterwards became a commercial traveller, and during the Com Law Agitation came into great prominence as an advocate of Free Trade. He devoted himselfso completely to this cause, that for some years he entirely neglected his business affairs and in recognition of his services a subscription of £80,000 was raised for and pre-sented to him. He entered Parliament in 1841, and except for an interval of two years remained a member till his death. In 1860 he negotiated a commercial treaty with France which was of great benefit to the trade of this country. Tales and other honours were offered to hum, but declined.

of this country. Tates and other honours were offered to hun, but declined.

Gockburn, Eir Alexander J. (1802-1880), after a most successful career as a barrister and M.P., twice filling the office of Attorney General, he necessary that the second chief justice of the Common Pleas in 1866, and Chief justice of the Queen's Bench three years later, holding that high office with distinction for twenty-four years. He represented the British Government at Geneva on the Alabama arbitration, and dissorted from the award.

and dissented from the award.

and dissented from the award.

Gooker, Bdward (162-1675), a famous arithmetician, whose arithmetic went through 112 editions. "According to Cocker" is still a popular plirase.

Godrington, Admiral Bir Edward (1770-1851), a British admiral who saw much active service and greatly distinguished himself. He commanded a ship at the Battle of Trafagar, was engaged in the American War of 187-14, and had command of the allied fleets at Navarino.

alled fleets at Navarino.

Coke, Sir Edward (1952-1634), an eniment English judge, and author of the legal classic, Coke whom Littleton. He served as Speaker of the House of Commons and as Attorney-General before he became Chief Justice, and was the merciless prosecutor of Sir Walter Raleugh and of the Gunpowder plotters; but made a fine fight for English freedom in Parliament against Buckingham, towards the close of that ill-fated Royal favourite's career.

Colbert, Jean Baptiste (1619-1683), a great French statesman and financier, who schieved much

for his country in advancing the arts and sciences and promoting commercial and industrial development. His son (also called Jean Baptiste) was Marquis de Seignelay and Minister of Marine. Coleanso, John William (1814-1883), was Bishop of Natai from 1852 to the time of his death, and became noted for his criticisms on the Pentateuch, concerning which a ferce controversy raged for some years. Colenso was condemned by a tribunal of South African Bishops, which he refused to recognise, and continued in his position with the general approval of the English Church. Coleridge, Bamuel Taylor (1772-1834), one of the great poets of the early part of the 19th century, whose "Ancuent Marine" and a few other poems stand unsurpassed for poetic beauty and originality. Coleridge-Taylor, 8. (1875-792), musical composer, who was trained at the Royal College of Music, and in 1898 had an "Orchestral Ballade" performed at the Gloucester Festival. The following year he produced his cantata, "Hiswatha's Wedding Feast," and in 1971 composed the music for Alfred Noyes's "Peace Poem."

Colet, John (1467-1519), was Dean of St. Paul's and founder of St. Faul's School. Among his publis

for Alfred Noyes's "Peace Poem."

Colet, John [1467-1529], was Dean of St. Paul's and
founder of St. Paul's School. Among his pupuls
were Milton, Mariborough, Halley and Pepys.

Coligny, Gaspard de [1517-1572], a famous French
admiral, soldier, and statesman, and one of the
leaders of the Protestant party, who fell a victim in
the Massacre of St. Bartholomew. His father (same
name) was Marchal of France.

Collings, Rt. Hon. Jesse (b. 1821), was a successful
Brimincham merchant until 1870, when he retired.

Birmingham merchant until 1870, when he retired, filling the office of Mayor of Birmingham the same thing the office of Mayor of Birmingham the saine year. Entered Parliament in 1880, and was Parliamentary Secretary to the Local Government Board in 1880, after his Small Holdings Amendment to the Address had caused the resignation of Lord Salisbury's Government From 1895 to 1902 was Under-Secretary to the Home Office. Retired from

Onder-Secretary to the Home Since American Parliament, 1924 Collingwood. Cuthbert, Lord (1750-1810), was one of Nelson's famous commanders, taking part in most of the leading engagements of the period, and being second in command at Trafalgar, haying a peerage conferred upon him for his services. He was

a native of Newcastle and was buried in St. Paul's.

Colling, Rt. Hon. Lord (1842-1911) was Lord of
Appeal in 1977, previously a Judge of the High
Court, and Master of the Rolls; was arbitrator on
the Venezuela Boundary Question and a Lord Justice of Appeal.

Gollins, Mortimer (1827-1876), poet, novelist, and miscellaneous writer, and at one time mathematical master at Elizabeth College, Guernsey.

master at Elizabeth College, Guernsey.

Collins, William (1721-1750), the author of the Odes to the Passions, Oriental helogues, &c.

Collins, William (1788-1847), a noted landscape and figure panner, and father of Wilkie Collins.

Collins, W. Wilkie (182-1889), the novelest, was for many years associated with Charles Dickens, and wrote some of his best stories for Household Words and All the Year Round, including The Dead Seret, The 18 man in 19thes, and No Name.

Colman, George (1732-1794), a dramatist of considerable versatility, whose "Jealous Wife" and "The Clandestine Marriage" (the latter written in conjunction with Garrick) long held the stage.

conjunction with Garrick) long field the stage.

Coliman, George, the younger (1766-1836), son of
the foregoing and also a dramatist of considerable
repute. He wrote "The Poor Gentleman," "The
Heir-at-Law," and other pieces, and was an exacting
examiner of plays under the Lord Chamberlain.

Colonna, Wittoria, (1460-1547), an Italian poetess
of noble family, who after her husband's death
devoted her life to celebrating his virtues in poetry
of great power.

of great power.

Colt. Samuel (1814-1862), of Hartford, Connecticut, invented the revolver and patented it in 1815. It was some time before its utility was recognised, but after being used with great effect in the war with Mexico it was universally adopted.

Columba. St. (521-597), the founder of the monastery

of Iona, was a native of Ireland. From his lonely island shrine he made frequent missionary journeys to the Highlands of Scotland, where he made many

to the Highlands of Scotland, where he made many converts and was greatly revered.

Columbus, Christopher [1447-7505], the famous navigator, who after much adventure, struggle and trial, succeeded in prevailing upon Ferdinand and Isabella of 5pain to bear the expense of an expedition of discovery, and set out on his first voyage in 1492. He first discovered the Bahamas, Cuba, and other West India Islands, and, on his third voyage in 1498, landed on the lowlands hear the mouth of the Orinoco in South America—this being the first actual debarkation, probably, by any voyager in the New debarkation, probably, by any voyager in the New World below the equator.

debarkation, probably, by any voyager in the New World below the equator.

Combs. Andrew (1797-1847), a celebrated physician, who was the author of several works on phrenology and physiological science, and was appointed physician to Queen Victoria in 1838.

Combs. George (1888-1858), elder brother of the above; an eminent philosopher and author, who first hitroduced phremology into Britain. Both the brothers Combe were born in Edinburgh.

Combs. William (1744-1853), a clever and witty poet, the author of "The Tour of Dr. Syntax"; he was an adventurer, and passed forty-three years within the King's Bench Prison, as a debtor.

Combs. M. Emile (b. 1939), a leading French statesman, who after spending some years in the medical profession entered political life and made a prominent position for himself. In 1885 he was made Senator; in 1890 was Minister of Public Instruction, and in 1902 became Premier of France.

Comtes. Augusta (1798-1874), a French philosophy. He has exercised great influence upon modern and founder of the "Positive" school of philosophy. He has exercised great influence upon modern political economy, and his system of philosophy was warnaly taken up in this country.

Conde, was a distinguished millitary commander, engaged at first in the war of the Fronde on the side of Anne of Austria, and at a later period opposed to her. Subsequently he entered the service of Soaln.

Condé, was a distinguished military commander, engaged at first in the war of the Fronde on the side of Anne of Austria, and at a later period opposed to her. Subsequently he entered the service of Spain. In 1659 he made his peace with the Court of France, and was appointed Governor of Buryundy.

Congreve, William (1570-1720), was a famour Restoration dramatist, whose conselles of manners reflect the grossness of his age only too closely, but are redeemed by the brilliancy of wit. He was buried in Westminster Abbey.

Congreve Bir William (1772-1828), invented the Congreve rocket, which gave him fame and fortune. He was a lieutenant-colonel in the British Army, and retired in 1816.

Connaught and Strathearn, H.R.H. the Duke of (b. 1850), third son of Queen Victoria. Entered the army, and held a command in the Egyptian Expedition of 1882. Was made Field-Marshal in 1902. Was Commander-in-Chief at Aldershot from 1893 to 1898, and in 1904 was made Aldershot from 1893 to 1898, and in 1904 was made Aldershot from 1893 to 1898, and in 1904 was made Hedditerranean Forces, but retured from that post in 1909. In 1910 he vasited South Africa to open the Farliament of the new South Africa Confederation; and since 1911 has been Governor-General of and since 1911 has been Governor-General of

and since 1911 has been Governor-General of Canada, Spent the summer of 1923 in England, Conzad, Joseph (b. 1857), is a novelist and master in the merchant service, who has written some fine sea stories, strong in plot, and full of the true salt flavour. He is a Pole, but has for many years resided when on land m England. His first novel of note was Almayer's Folly, 1895.

first novel of note was Alonayer's Folly, 1895.

Constable, John, R.A. (1776-1897), was a untive of East Bengliolt, Suffolk, and became one of the greatest of English landscape paragers. He had long to wait for recognition, but ultimately attained high honour, and exerted a strong influence in the development of landscape art.

Constant, Eanjamin (1845-1909), a famous French painter of Orientia subjects and portrait painter. His "Prisoners in Morocco," "The Harem," and "The Emir's Favourite," are among his more celebrated pictures.

Constantine, the Great (272-337). Emperor of Rome from 305 to the time of his death. He espoused thristianity with much fervour, and showed great daring as a commander, extending the Roman Empire eastward to Byzantium, which was atterwards called Constantinople in his memory.

Conway, Hugh (1847-1883) a novelist who sprang into sudden fame in 1884 by a shilling novel entitled Called Back, and followed this with Dark Days, which well sustained his reputation. His death in

which well sustained his reputation. His death in the following year ended a promising career.

Conway, Sir Martin, M.A., F.S.A., F.R.G.S. (b. 1856), an intrepid mountain climber and explorer, having climbed the Himalayas (23,000 ft.), Aconcagua (23,000 ft.), and the Swiss Alps at all the mora difficult points. A prollife writer on mountaineering Cooky Sir Edward Tyas, M.A. (b. 1837), as enument journalist and author, who has edited in turn the Pall Mail Gavette, the Westmusster Gavette, and the Dail' News. Has written a Handbook to the eniment journalist and aution, who has edited in turn the Pall Mail Gasette, the Westmister Gasette, and the Daily News. Has written a Handbook to the National Gallery, Studies in Rushin, and other able works on art, has eatted a complete edition Ruskin's works, and in 1917 published a Life of the great critic. Kinghted in 1912.

Cook, Eliza (1816-1880), an Finglish poetess, and editress of Eliza Cook's Journal.

Cook, Captain James (1728-1779), an adventurous navigator, whose Foyages Round the World is a classic. He made many discoveries in the name o' Great Britain, including the Sandwich Islands. He was murdered at Hawai by natives. Statue erected to his memory at Whitby in 1912.

Cooke, Thomas Potter (1786-1864), an Englist actor noted for his romantic impersonations o' "William" in "Black-Lyed Susan" and "Long Tom Coffin" in "The Pilot".

Cooke, Sir William Fothergill (1866-79), an English electrician, associated with Wheatstone in the perfection of the telegraph.

English electrician, associated with Wheatstone in the perfection of the telegraph

Cooper, Sir Astley (1768-1841), one of the greates' surgeons of his time, and the author of severa important medical text books. Was elected President of the College of Surgeons in 1827.

Cooper, James Fenimore (1785-1851), was a very popular American novelist, who from about 1820 to the time of his death produced a succession of stirring stories of adventure, which enjoyed muc's popularity, among them The Spy, The Last of the Mobitans; The lathinuter, and The Deer Slayer.

Cooper, Thomas (1805-1852), pott, lecturer, and Charitist advocate; once a prominent sceptic, but later a Baputs preacher. His Purgatory of Swicides attracted considerable attention.

Cooper, Thomas Sidney (1803-1902), a highly citied animal painter who began to exhibit in the Royal Academy in 1823 and was represented on its walls so late as 1897. Elected R.A. in 1867, His pictures of cattle and sheep are always a masterly.

Cootes, Sir Eyre (1720-1763), a distinguished Anglo Indian general; brillantly defeated Hyder Ali at Porto Novo in 1781.

Copernicus, Nicolas (1473-1543), the famous astronomer who propounded the astronomical system which bears his name. He was a Prussian doctor and canon of the chapter of Frauenburg.

Copper, François (b. 1842), one of the most popular of modern French writers, who as poet, novelist and dramatist, has been successful.

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perhaps her most characteristic works. She lives at Stratford-on-Avon.

Stratford-on-Avon.

Coriolanus, Calus Marcius, the Rero of one of Shakespeare's plays, who, after conquering Corolli, was condemned to evile by the Roman Senate, took refuge with the Volscams, and led their army against the Romans, but was prevailed upon to reture by the entreaties of his mother and wife. He lived in the

entreaties of his mother and wife. He lived in the first half of the 5th century B.C.

Cornellie, Pierre (1606-1684), the French tragic dramatist, whose "Cad," "Polyeucte," "Le Menteur," and other plays marked a new era in French dramatic production

Cornwallie, Marquite (1733-1805), has a place in history because of his position as Commander of the British forces which surrendered to the Americans at Yorktown in 1781, and ended the War of Medpendence; and as Commander-in-Chief in India during the time that Thopy Salub was giving so much trouble. Was twice Governor-General of India, Corot. Jean Baptiate (1790-1875), ia French

trouble. Was twice Governor-General of Indu.

Corot. Jean Baptista (1795-1875), a French
landscape panter, whose works are considered to
rank with those of Claude and Turner.

rank with those of Claude and Turner.

Corregio, Antonio Allegri da (194-1534), the
great Italian pointer of the Lombard School, whose
Ecce Homo' is in the British National Callery.

Cortes (or Cortez), Hernando (1483-1547), a
Spanish adventure who earned great renown by
capturing Mexico for Spain, and held that country
the state of the second of the ways. in subjection for ten years. Later on he was employed in an expedition to Algiers.

Lort, Henry (1740-1800), was a native of Lancaster, and settled in Hampshire in 1775, and, by his sivenand settled in trainistic in 1775, thus, by his advertion of the 'puddling' process for converting pigition into mallexible metal, entirely revolutionised the iron manufacine. The Government took up his lavention for the dockyards at Pottsmouth, and was expected that Cort would make a large fortune, but a Mr. Jellicoe rulned him by a series of frauds and Cort ultimately retired to Hampstead, and lived on a Government pension of £200 a year.

on a Government pension of 220a year.

Coata, Bir Michael (1810-1884), a composer and conductor of note, who came from Italy to England in 1820, and thenceforward to his death was a prominent member of the Englash musical world. As conductor of the Handel and other Festivals he was of great service, and his oratonos. "Eli" and of great service, and his oratoros, "Eli" and "Naman" showed musicianly qualities without any special inspiration. He was kinchted in 1800. Courtney of Pen with. Rt. Hon. Leonard H.,

rst Baron (b. 1829, was educated for the Bar, and sat for 24 years in Parlament, retring on the Boer War question, Was Under-Secretary of State for the Home Department 1880-1881, and subsequently the Home Department 1880-1881, and subsequently served in the Coiomal Office and as Finnicial Secretary to the Treasury. He acted as Chairman of Committees and Deputy Speaker from 1886 to 1892. Was raised to the peerage in 1905. [Courtney, William Leonard (b. 1850), an editor, and bord the department, whose books on inhibiting at and large temperature.

philosophical and literary subjects are of great ment.

is color of the Forty state Review and on the staff of the Puts Telegraph.

Cousin, Victor (1792-1867), a celebrated French philosopher with founded what is called the Electroschool of Modern Philosophy. His writings traverse nearly the whole field of philosophy. He was made a peer of France, filled certain Government offices, and spent his last years in retirement in the Sorbonne.

and spent his last years in retrement in the Sorbonne.

Cousins, Samuel (1801-1892), the greatest mezoprint engraver of his day, whose plates after
Reynolds, Milais, Landsrer, and Hogerth reach
the highest point of this kind of art work. He was
elected R.A. in 1855.

Coverdale, Miles (1488-1568), one of the early
English Reformers, was born in Yorkshire, and
afterwards became a monk of Norwich and later
Bishop of Exeter. He collaborated with Tyndale in
translating the Bible; the Psalins still used in the
Prayer Book are taken from their translation.

Cowdray, Lord, tof Midhurst, formerly
Sir
Weetman D. Pearson (b. 1850), one of the most
famous of living contractors and engineers, and
president of the firm of S. Pearson and Son, Ltd.

His firm constructed the Blackwall Tunnel, the East River Tunnels, New York, the National Harbour at Dover, and numerous other important public works, railways, harbours, etc., in Great Britain, Mexico, and elsewhere. He represented Colchester in Parliament from 1895 to 1910, and in the last-named year was raised to the peerage

Cowen, Sir Frederic H. (b. 1852), an English com-poser with a very graceful turn for melody, who has contributed many cantatas, operates, anthems and ballads to the stock of English modern music.

ballads to the stock of English modern nuisic.

Cowen, Joseph (1831-1900), was for a long time a prominent figure in English politics. He was a vigorous speaker, took an intense interest in movements for the good of the people, and was also an ardent thoughe of Mazzini. Was owner of the Newcastle Duily Chromote, and a nime owner.

Cowley, Abraham (1018-1667) a celebrated English poet of the Charles I. and II. period, and a loyal supporter of the Stuarts. Much of his poetry is of great beauty. After the Restoration he had a pension of £300, and was buried in Westmister Albey.

Courper, William (1731-1800), an English poet inbude with minch picty of sentiment and a remarkable poetre talknt. His "Task" is one of the great poems of the 18th century; received a pension of

poems of the 18th century; received a pension of £300 a year from George III.

Cox. David (1783 1859), an eminent landscape painter—son of a Birining ham blacksmith—whose

painter—son of a Birming ham blacksmith—whose pictures (fisplay genus of a vir y high order, and are thoroughly English in spirit and treatment.

Cox. Harold (b. 1800), was for several year, secretary of the Cobden Club, and has written largely on Free Trade and the economic side of political questions; was elected Liberal member for Preston

questions; was elected Liberal member for Prestion in 1906, but lost his scat in 1910. Is editor of the Edinburgh Kenery.

Coxwell, Henry Tracy (1819-1900), an enterprising aeronaut who made 700 balloon ascents, and in company with Mr. Glarsher, the astronomer, made the highest recorded ascent of 7 miles in 1822.

Cozens-Hardy, Rt. Hon. Blr H. H., Master of the Rolls since 1907 (b. 1838), was Ml.P. for N. Norfolk from 1885 to 1899. Judge of the Chancery Division, 280-1907. Lord Justice of Appedi, 1902-1907. Charman of Hist. MSS. Comm. Crabbe, George (1754-1832), a poet of rural life and seems, noted for his faithful pictures and characterisation no less than for the soundness of his senti-isation no less than for the soundness of his senti-

isation no less than for the soundness of his sentiments. After enduring many struggles and privations

he obtained the parronage of Burke and was pro-moted to a curacy at Aideburgh, Craik, Diane Maria (1820-1887), a well-known English novelst who under her madden name of Miss

English not clist who under her maden name of Miss Malock wrote 'folin Haujax, Centleman, A Life for a Life, and other notels, all distinguished by depth of feeling and clever characterisation.

Craik, Goorge Lillie (1798-1866), a vigorous writer who, in conjunction with Charles Knight, issued a number of historical and literary works of vidue. From 1849 to his death he was Professor of History and English I treatment in Openia College, Baffert and English Literature in Queen's Cohege, Belfast.

Granbrook, Earl of (1814-1906), entered Parha-ment in 1856 as Mr. Gathorne Hardy, and quickly made a name for himself as a Conservative politician made a name for hunself as a Conservative politician and statesman. Was President of the Poor Law Hoard in 1806. Home Secretary in 1807, Secretary for War in 1874. Secretary for India in 1878, and President of the Council 1885-1802.

Grane, Walter (b. 1845), first President of the Arts and Crafts Isluidious Society, and holder of the Albert Gold Medal. Has painted many notable patters, and his works on decorative art are of great value

Granmer, Thomas (1480-1556). Archbishop of Canterbury under Henry VIII. and Edward VI.; an ardent promoter of the Reformation, but on Mary's accession at fast consented to return to the old faith, but when called upon to make public avowal of

accession at f.1st consented to return to the old faith, but when called upon to make public avowal of his recantation, refused, and was burnt at the stake Cranhaw, Richard (1612-1669), an English poet whose works indicate much eloquence of diction and purity of thought. Known chiefly by his "Steps to the Temple" and "Delights of the Muses."

Grawford, 27th Earl of (b. 1871), succeeded his father in Jan., 1973. As Lord Balcarres won a considerable reputation in the House of Commons, succeeding Lord St. Audnes as Chief Conservative Whip in 1971. A trustee of the National Portrait Gallery.

in 1911. A trustee of the National Portrait Gallery, Crawford, F. Marjon (1843-1900), an American novelust who obtained considerable cumence by his stones of Italian hie, including A Koman Singer, Saractivesca, A Cigarette Maker's Romanie, and Sant Itario. Resided in Italy, where he was born. Creasy, Sir Edward S. (1812-1898), author of The Fifteen Decirue Battles of the World and other the trigonality and before and Battle agent.

historical works; was a barrister and Professor of History at London University. From 1860 to 1873 he was Chief Justice of Ceylon.

he was Clinef Justice of Ceylon.

Creighton, Mandell (1847-1902), Bishop of London.

Was educated at Durham Grammar School and
Oxford, In 1885 was appointed Dixie Professor of
Ecclesiastical History at Lambridge; in 1897 made
Canon of Windsor, and in the same year appointed
to the See of Peterborough, and succeeded Dr.
Temple as Bushop of London in 1897.

Cremar, Sir W. R. (1838-1908), su ardent advocate
of International Arbitration and founder of the
Inter-Parliamentary Union. For over thirty years
be was escretary of the International Arbitration

he was secretary of the International Arhitration Union, and in 1903 was awarded the Nobel Peace Prize, which he devoted to the furtherance of the cause with which his name was so long identified.

Gres wick, Thomas, R.A. (1811-1869), was one of the most prominent landscape partiers of his day, as well as a book illustrator He is represented by several works in the National Gallery and South

Kensington Museum.

Kensington Museum.

Crewe, Marquess of (b. 1858), was Lord President of the Council non 1005 to 1008, and in the latter year became Colonal Secretary, Lord Prny Seal, and Laberal Leader in the House of Lerds. Made Secretary for India in 29th. He was Lord-Laettenant of Treland from 1802 to 1852. Married Lady Margaret Primrose, Lord Rosebery's daughter, as his second wife in 1802. The Critical of Lerds of Leading and general accomplishments and was called "The Admirable Crichton." He was assessmeted when only twenty-two years of age in Mantua under romantic circumstances

romantic circumstances

romantic circumstances, Crispi, Francesco (18'0-1001), a noted Italian statesman, who aided Garibaldi and was his supporter throughout. Was Premier for many years, id achie al 5 for his country. Ho was

minensely popular, and active to the last.

Criapin, St., a salist of the Roman Church and patron of shoemakers. In the 3rd century he and his brother, natives of Rome, settled in Sossons, France, and there preached Christianity, supporting themselves by shocmaking. Suffered martyrdom in 287, by being thrown into a cauldron of molten lead; memorated on Oct. 25

Grockett, S. R. (1801 1914) was for a number of years a Scottish Free Church Munster at Peniculk, and in 1893 made a great success with his story The Stickit Minister. For many years he was one of the most profine of the Scottish novelists, producing,

most proline of the Scottish movelets, producing, among other stones which have had great vogue, The Litac Studenth and The Sanaard Bearer.

Crosses, the last King of Lytha, who reigned fourteen years, and acquired such innuence wealth that his name has ever since been proverbal. He was a wise king, whose memory still survives in his wise sayings. Solon was his friend, and it was Solon's name that he uttered three while standing before the pyre on which Cyrus had condemned him to be burnt. This touched Cyrus, who spared his life and made his, his companion. He succeeded his father Alvattes on the Lydan throne 560 B.C.

Croft, William (1678-1727), a musclean (born in Warwickshire) whose authents and other sacred compositions are much esteemed. Was organist in Westminster Abbey, and was burled there.

Crofts, Breast, R. A. (1847-1971), was keeper of the Royal Academy, and one of the most noted painters of battle pictures. His first Academy picture was

of battle pictures. His first Academy picture was

exhibited in 1874, "A Retreat." Among his other best known works are "The Morning of Waterloo," "Cromwell" at Marston Moor," and "Queen Elizabeth Opening the first Koyal Exchange," one of the Royal Exchange frescoes.

Croker, John Wilson (1780-1857), was one of the founders of the Quarterly Review, and a con-troversialist of note. Was in Parliament for some

years, and was Secretary to the Adultralty.

Crome, John (1769-1821), from being a humble house-panter became eminent as a painter of lands.ape. He "Mouse-hold Meath," a character, stice example, is in the National Gallery. He was a

istic example, is in the National Gallery. He was a native of Norwich.

Cromer, Earl (b. 1841), a diplomatist who wo celebrity in the post of British Comptroller-General in Egypt from 1881 to 1997. It was a stupendous task that he had improved upon him, but he resolutely devoted himself to it, with the result that resolutely devoted himself to it, with the result that Egypt was lifted from financial difficulty and internal disorder to a condition of prosperity. He was Sir Evelyn Baring up to 1892, when he was made Baron Cromer, becoming Earl in 1907. Retiring in 1907 because of ill-health, he received a grant of \$5,5,000. On Ort. 28, 1907, was presented with the Freedom of the City of London. In 1908 published Freedom of the City of London. In 1908 published Modern Expetand Ancient and Modern Imperialism in 1910. An original member of the Order of Ment.

Crompton, Samuel (1753-1827), was a poor cotton worker at Bolton, and invented the spitting male, which greatly increased the power of cotton production. Was awarded a Parliamentary grant of £5 000, but died in poverty at Hall-in-the-Wood

Cromwell, Oliver (1599-1758), Lord Protector of England from 1653 to his death. At one time contemplated emigrating to America, but, entering Parhament and becoming enthusiastic in the popular cause, obtained recognition as one of the Parha the Crist War, became General of the Roundheads the Commonwealth, is familiar listory.

Cromwell, Richard (1626-1719), son of the fore-going, and his successor in the Protectorate, which he was only able to sustain for a few months.

he was only able to sustain for a few months.

Cromwell, Thomas, Earl of Essex (1435-1540),
an English scatesman, originally a protege of Wolsey,
Rose to high office and in 1530 legan the suppression
of the monastenes. Later was beheaded.

Crookes, Professor Sir William th, 1832),
President of the Ruyal bocsety since Nov. 1013.
An emaint Butush scientist, whose this words in
themstry and electricity have been of the greatest
importance. Is a past jurt about of the British
Association, the author of many books on chemical

subjects The discoverer of thallium and inventor of the radiometer.

Croke, Will (h. 852), a prominer Fast London labour-leader and Member for Wordsuch 1903-1910, and re-cles test open Mayor for Popular tops.

Grossley, Sir Francis, Bart. (1817-1872), was a successful carpet manufacturer of Halifax, and a man of great public spirit and philambropy. He sat in Pathament as M.P. for Halifax, and gave a People's Park to the town.

Cruden, Alexander (1701-1770) was an eccentric Aberdoman who settled in London as a pookseller, and became the author of the famous Concordance

to the Holy Scriptures.

Cruikshank, George (1792-1878), a celebrated book illustrator who was for a time associated with Charles Dickens, and later on illustrated numerous works of other novelests of his day, showing great himour and power of character-delineation. In his later years

power of character-deimeation. In his later years he was an enthusiastic temperatice supporter. Culme-Seymour, Admiral the Rt. Hon. Sir Michael, Bart., P.C., G.C.B. (b. 1826), entered the Navy in 1850, and saw much active vervice in various seas during the next ten years. Was appointed private secretary to the First Lord of the Admiralty in 1874, and passed through the three admiral degrees between 1882 and 1893, and has commanded successively the

Pacific, Channel, and Mediterranean Squadrons, and was Commander-in-Chief at Portsmouth 1897-1901. In 1901 was appointed Vice-Admiral.

In 1901 was appointed Vice-Admiral.

"Gunard, Sir Samuel (1787-1865), the founder of
the Cunard Line of steamers, was a native of Nova
Scotia. In 1840 he obtained a government contract
for the mail service between Liverpool and Halifax,
Boston and Quebec, and showed such ability of
organisation that in a fewyears, aided by Mr. George
Burns (afterwards Lord Invercyled), he succeeded in
establishing the first Atlantic steamship service.

Sunningham, Bir & Marander (1842-1862) an

cunning ham. Bir Alexander (1814-1893), an English military engineer and archeologist, son of Allan Cunningham the poet. Served in India for twenty-one years, and wrote several valuable works on Oriental subjects.

Junningham, Alian (1784-1842), a well[®]known poet and prose author, whose songs were greatly admired by Sir Walter Scott. In his early life he

was a stone-mason

was a stone-mason;

Surle, Prof. Pierre (1859-1905), and Madame

Marle (b. 1867), are names that have been deservedly prominent during recent years as those of the
joint discoverers of Radium. M. Curic was a

Frenchman, but his widow is a Pole; they have both
been indefatigable scientific investigators, holding
important professorial appointments in France. Important professorial appointments in France, Madame Curie succeeded in separating radium from barum extracted from several tons of pitch-blende.

Gurran, John Philpot (1750-18-7), an Irish barrister and orator, whose defence of Wolfe Tone broughthim into fame, and thenceforward he became identified

into fame, and thenceforward he became identified with the Irish popular cause and had a bulliant carer. Garwen, John (1816-1880), was a Nonconformist minister of muscal gifts, who in 1811 introduced the Tonic-Solia system, and devoted the best part of the remainder of his life to its advocacy. The system was widely adopted, and still has many adherents. Garrie, Sir Donald, GC.M.C. (1825-1909), was the founder of the Castle Line of steamslips, and became head of the combined Union-Castle Line Was in Parliament from 1880 to 1900, and knighted in 1881. In 1900 gave £80,000 for a Medical School at University College, London, and £30,000 additional for a Nurses' Home to the London Hospital. Gurrie, Lord (1824-1906), a distinguished diplomatist who, as Sir Philip Currie, carried out successively many important tasks and embassies in different capitals, and was raused to the peerage after 45 years in the public service at home and abroad m con-

in the public service at home and abroad in con-nection with the conduct of foreign affairs. Curson of Kedleston, Earl (b. 1859), Governor-

intron of Kedleston, Earl (b. 1893), Governor-General of lindia 1890-1905 (reappointed 1904). Entered Parliament in 1886, and, having filled numerous minor offices with distinction, made a vigorous Imperal-minded Viceroy. In 1904 returned to England for a brief holiday, which was saddened by the Serious illness of Lady Curson at Walner Castle, where Lord Curson was temporarily residing as Warden of the Cinque Ports. Some friction. Castle, where Lord Curzon was temporarily residing as Warden of the Cinque Ports. Some friction which arose respecting military control caused Lord Curzon to seek rehelf from the heavy cares of the Viceroyalty before his second term of office had been far proceeded with; and having received the Prince and Princess of Wales (their present Majesties), on their tour in India, he and Lady Curzon returned home, and the latter shortly afterwards died. In March, 1997, he was elected Chancellor of Oxford University, and early in 1908 elected an Irish representative near: imade early in 1908 elected

ceilor of Oxford University, and early in 1908 elected an Irish representative peer; made earl in 1917. Cuthbare, 8£. (635-697), a famous monk who became prior of Meirose, and afterwards of Lindisfarne. For a time he lived in seclusion on one of the Farce Islands, but from 684 was Bishup of Hexham. Cuvier, Baron (179-1832), a Prach naturalist who founded a system of clavification in zoology, and originated the science of comparative anatomy. He was a volummous and able writer, and was held in high esteem by Napoleon I., Louis XVIII., and Louis Philippie in turn, the last-nämed monarch econferring a peerage upon him.
Cuyp, Albart (1605-1691), a famous Dutch landscape painter, several of whose works are in the National Gallery.

Cymbeline was the father of Caractacus, and re-membered chiefly as the central figure of one of

membered chiefly as the central figure of one of Shakespeare's plays.

(Ypriam, £4., was an eminent ecclesiastic of the 3rd century, who was made Bishop of Carthage, and wrote several notable treatises on matters of Christian doctrine. He was beheaded in 258, at an advanced age, and the present English calendar commemorates him on Sept. 26,

Cyrus the Great founded the Persian monarchy in the 5th century B.C. and greatly distinguished himself by his conquests of Media, Assyria, Babylon, parts of India, Arabia, and Asia Minor, and was eventually slain in battle, it is believed, with the Messagetes on the river Jaxartes.

Czerny, Karl (1791-1827), an Austrian planist and cumposer, many of whose pieces enjoy much populatity with music students.

Daquerre, Louis J. M. (1789-1851), a French artist, who acquired fame as the inventor of the earliest photographic process, aand then devoted hunself to scene-pannting, and became part proprietor of the Diorama in Paris. Daquerre's perfected process of obtaining permanent pictures by sun-action: was communicated to the French Academy in 1839.

Daimler, Gottlieb (1834-1890), inventor with Otto of the Otto Gas Engine, and in his later years eminent as the inventor of the motor-car that is

called after him

Dale, Sir David (1829-1906), was a distinguished Dale, SIF David (1829-1905), was a distinguished worker in various fields of advancement, especially in connection with promoting conciliation and arbitration in industrial pursuits. He was a colliery owner and director of the North-Eastern Railway Co. Dale, Raw, R. W. (1829-1805), a Congregationalist minister who made a great name in Birmingham of the advanced to the second control of the sec

his eloquent preaching and public services, was for a number of years editor of *The Congregationalist*, and served as chairman of the Congregational Union 1868-1869.

D'Alembert, J. (1717-1783), a Parislan mathematician and philosopher who achieved great eminence by his numerous cientific works, including the Theory of the Winds and the Procession of the

quinoxes.

Dalhousie, Marquis of (1812-1860). The tenth Earl and first Marquis of Dalhousie was one of the most famous of India's Governors-General. He conmost fanous of India's Governory-General. He controlled the affairs of India during a period of great difficulty, and annexed the Punjab after the second Sikii War; later on also annexing Nagpur Jhamby Pegu and other States. He left India in 1895, and the following year the Mutiny Iroke out.

Dalton, John (1705-1844), a famous chemist and mathematician—son of a Cumberland weaver—who in 18to published his New System of Chemical Philosophy, in which the "Atonic Theory" was first propounded. He unade many other courtbustons.

first propounded. He made many other contributions to scientific knowledge, and received a Government

to scientific knowledge, and the person of face.

Darnien, Father Joseph (1840-1886), a Belgian missionary who, going out to Honoluli in 1864, and witnessing the terrible sufferings of the lepers confined on the Island of Molokai, obtained permission of the Government settleto take spiritual charge of the Government settle-ment, and remained there working nobly for this wretched community, until in 1889 he himself was wretened community, until in 1889 he himself was stricken with leproxy and died.

Damiens. Robert François, the Frenchman who in 1757 made an unsuccessful attempt to sszassinate Louis XV, and was afterwards put to horrible tortures and executed.

horrible tortures and execured.

Damooles, the flatterer and favourite of Dionysius of Syracuse. The legend related by Ciccro concerning him is that one day after expressing envy of Dionysius, he was invited to a banquet, where he found himself sitting beneath a naked sword suspended by a single hair. Hence the familiar simile, "the sword of Democles." The incident is referred to the first half of the 4th century B.C.

Dampier, William (1652-1712), an adventurous privateering English navigator, who discovered a number of small islands off the coast of Australia, and published A Voyage Round the World.

and published A Voyage Round the World.

Dandolo, Barieso (circa 1108-1225), was elected Doge of Venice when seventy-seven, and ten years later, when almost blind, joined the Crusades, and succeeded in planting the standard of St. Mark on the walls of Constantinople.

P'Annunglo, Gabriele (b. 1864), the Italian poet, dramatist and novelist, and one of the most remarkable literary men in Europe, Is known in this country by translations of his "Triumph of Death," and "La Gloconda." The author's real name is Gaetano Rapagnetto.

Dante Alighieri (1265-1221), the greatest of Italian poets, whose "La Druna Commedia" is world-famous, and has been translated repeatedly into all languages. Custave Dore executed his most

languages. Gustave Dore executed his memorable illustrations to this celebrated work. Gustave Doré executed his most

Danton, Georges J. (1759-1794), a famous member of the National Convention at the period of the first French Revolution. Was made President of the Committee of Public Safety, but Robespierre attacked and supplanted him, Danton being consigned to the

and supplanted him, Danton being consigned to the guillotine shortly afterwards.

PArblay, Madame (175-1840), made a great sensation while quite young and unmarried, under her name of Frances Burney, by her novel Evelina, which opened the doors of Society to her and gained her the friendship of Dr. Johnson. She married M. D'Arblay, a French officer. Her Dary, published after her death, is a valuable picture of her time. time

Darius was the name borne by three Persian kings. The first reigned from 521 to 485 B.C., and was defeated by the Greeks at Marathon. The second deteated by the Greeks at Maratton. In a second was a natural son of Artaxexes Longimanus, and having obtained the crown by the murder of his brother, reigned from 424 to 49. B.C. The third Darius was the last of the Persan kings, reigning only from 356 to 33 B.C. when Alexander the Great invaded his kingdom and defeated him in two great battles. Darius was soon afterwards assassinated.

Darling, Grace (1815-1842). By the performance of her heroic deed in putting off in a small boat from or ner nervic deed in putting on in a small boat from the highthouse on one of the Farie Islands, of which her father was keeper, to the rescue of the ship-wrecked crew of the Forfarshra, whose hers she saved, she made herself an enduring name. She was only 29 years of age at the time, and died four years later of consumption.

was only 23 years on age at the time, and due to wears later of consumption. Soft, and the other years later of consumption. Soft, and the other years later of consumption. Soft, and the other years later, after Mary had entired into an intrigue with Bothwell, he was murdered.

Darwin, Charles Robert (1809-1803), the distinguished scientist, whose Orgin of Species first clearly formulated and elitorated the theory of evolution. His first work (1807) described a five years' cruise in the Beagle, which the Government had sent out for scientific purposes. His Organ of Species appeared in 1803, and, though defended and supported by the scientific thought of the time generally, was much attacked by the ologians. In 1817 Darwin issued his Descent of Man, a still further elaboration of the evolution theory. His other principal works were The Expression of Emotion in Man and Animals (1873), Insectional Plantic (1875), Different Forms of Flowers (1877), and Worms (1875). Chernie Forms of Flowers (1877), and Worms (1875). Re was buried in Westmanster Abbey.

Darwin, Sir George E. (1845-797), son of the

(1861). He was buried in Westminster Abbey.

Darwin, Sir George H. (1845-1941), son of the
foregoing, and Pluman Professor of Astronomy and
Experimental Philosophy at Cambridge. President
of the British Association, 1005, when he opened the
bridge over the Victoria Falls of the Zambest.

Darwin, Erasmus (1731-1862), grandfather of
Charles Darwin, the Naturalist, was an English
plysician, practising at Derby, and a poet of considerable repute, whose "Loves of the Plants" was
exceedingly popular.

Darwin, Sir Francis, M.A., F.R.S. (b. 1848).
President of the British Association meeting of 1908.

Third son of Charles Darwin, and biographer of his

father. An eminent authority on botany, and author of numerous powis on that velence. Knighted 1930. D'Aubigne Jean, M. M. (1708-1874), a Genevan pastor and professor, whose History of the Reformation holds high rank amongst the historical works of

note indice in the rank amongst the historical works of the 19th century.

Daudet, Alphonsa (1840-1897), the celebrated French hunorist and novelist, all of whose works have been translated into English, and achieved much popularity. His best known works are Ls. Nabab, Les Rois en Exil, Saphe, and the "Tartarin"

series.

Davanant, Eir William (1605-1668), a dramatist and poet of much note in his time, who filled the office of Poet Laureate in succession to Ben Josson. He was buried in Westminster Abbey.

Daway of Farnhurst, Rt. Hon. Sir Horace.
Lord (1833-1907), was Soliction-General in 1886, Lord Justice of Appeal 1893, and Lord of Appeal in Ordinary 1894. A great Chancery lawyer when at the Bar, and distinguished himself by his antagonism to street betting. to street betting.

David I. (1124-1153) was King of Scotland and uncle of Matilda, daughter of Henry I., and took up arms

of Matilda, daughter of Henry I., and took up arms against Stephen on his repudiation of Matilda's claims to the English crown.

David II. (1924-1921), King of Scotland from 1230 to 1230. He was the son of Rohert Bruce, and in conflict with the English army at Neville's Cross, in 1246, was defeated and made prisoner by Queen Philippa.

David, Jacques Louis (1748-1825), a celebrated French painter of classic and historic subjects, who was an ardent supporter of the Revolutionary movement. Many examples of his work are to be seen at Versailles and at the Louvre.

at Versailles and at the Louvre.

David, St., whose festival falls on March 1st, lived in the 6th century in Wales, and founded various monasteries. Is the patron saint of the Principality. Davidson, John (1857-1909), born at Barrhead, Went to London in 1890, and, after a course of

journalism, began to attract attention by his verse, and published various volumes disclosing a marked poetic gift, together with the power of treating ordinary subjects in a vivid and illuminating manner.

ordinary subjects in a vivid and illuminating manner.

Much sensation was caused by his mysterious disappearance in 1909. His body was discovered some inner afterwards, and he is supposed to have committed suicide in a fit of desponiency.

Davidson, Dr. Randall T. (b. 1848), Archbishop of Canterbury from 1909. Freviously Dean of Windsor 1883-1893, Bishop of Rochester 1891-1893, and Bishop of Winchester 1895-1903. Was for a long period Domestic Chaplain and Clerk of the Closet to Queen Victoria, and married in 1898 the daughter of Archbishop Tait, whose private secretary he had been, and whose biography he wrote.

Da Yindi, Leonardo. (See Leonardo Da Yindi)

Da Yinoi, Leonardo. (See Leonardo Da Yinoi, Leonardo, (See Leonardo Da Yinoi.)
Davis, Jefferson (1808-1889), an American statesman, who on the breaking out of the Civil War, was made President of the Confederate States. After the war he was a prisoner in the hands of the Federals, put on his trial for treason, and subjected to much indumity, but was ultimately discharged and wrote [1881] The Rise and Fall of the Confederate Government.

Davis, John (1550-7605), one of the great Elizabethan explorers and discoverer of Davis' Strait, the channel between the Atlantic and Arctic Oceans on the west of Greenland. Invented the backstaff, or

the west of Greenland. Inventor the bard-working Davi's quadrant.

Nationalist attracted much notice by the bitter speeches he made on behalf of the Fenian Brother-hood, and in 1870 was sentenced to fifteen years penal servitude for treason-felony, but was released on ticket of leave in 1877. Was one of the founders of the Isla Land. League, 1879. In 1881 was sant back to penal servitude, but released again in the following year. Was elected to Parliament while a service at a Portland but disqualified. Succeeded in

entering Parliament in 1802, and resigned in 1800.

Davy, Sir Humphry (1778-1829), the inventor of the safety-lamp. Was an emment chemist, whose researches and discoveries were of great scientific importance. Was the first to employ the electric current in chemical decomposition, and discovered nitric oxide or laughing gas. Began life as an anotherancy suprempting

nitric oxide or laughing gas. Began life as an apothecary's apprentice.

Deck. Ference (1803-1876). a dictinquished Hungarian statesman who falled many light offices, and was leader of the Moderate party of the Diet.

Deakin, Alfred (b. 1850), first Attorney-General of the Commonwealth of Australia, 1901 3; Prince Munister, 1903-4, 1905-8, 1909-10; leader Federal Opposition, 1910-13. Refused a knighthood; was prominent at the Colomal Conference of 1907.

Peane, Six Hanny Bargerye (b. 1840), Judge

peane, Sir Henry Bargrave (h. 1840. Judge of the Probate, Divorce, and Admirativ Bivision, since 105. Recorder of Margate, 1825-105.

Decamps, A. G. (1803-180), an enment French panter, who produced numerous historical pantings.

of great value.

of great value.

Declus. Koman Emperor from 249 to 251, notorious for his cruel persecution of the Christians.

Defoe, Daniel (1001-1747), the son of a London butcher who, after a very varied luminess career, became a political writer and movelest, obtaining world-wide fame by his Robinson Critice, written when he was nearly sixty years of age. This warfollowed by several other movels, all of great merit, though not free from schous defects of laste.

Delacroix, Ferdinand (1792-1803), a French painter of great magnative and dramatic furce, and one of the chief ornaments of the romantic school.

one of the chief ornaments of the romanuc values of the chief ornaments of the romanuc values of *Plane*, **J. T.** (1817-1879), the famous editor of *I lie Times*, who, though be did not write himself, machis paper the greatest journal in the world. He

his paper the greatest journal in the world He al position from 1821 to 1877.

De la Ramé, Louise, (See "Outda.")

Delaroche, Paul (Hippolyte) (1971-1850, and in 1960 two whose work are to be found in many galleries.

Delaroche, Paul (Hippolyte) (1971-1850, and in 1863 the countries french states and entered the Chamber in 1883 was appointed to the Foreign Office, with position he filled with great success. In 1968 was appointed to the Foreign Office, with position he filled with great success. In 1969 he accompanied President Loubet on a visit to England. Resigned in 1953 on the Morne of difficulty. Ambassador to Russia, 1613, and in 1614 became Foreign Minister once more.

Delbas C. P. L. (1885-1891), a French composer of

Delthes, G. P. L. (1836-1831), a French composer of much graceful and refued music, inclining two or three operas, numerous operas, so and some exquisite ballet music of very deficate texture.

Delolme, J. L. (1740 1800), a Swiss politician and author, who resided some years in Figland, and wrote a work on The Constitution of England,

which was a leading legal text-book

Democritus (460-357 B C.), the Greek philosopher to whom the conception of the Atomic theory is attriwhen the conception of the Atomic theory is attri-buted. His cheerful disposition led to his being styled "the laughing philosopher," and the tradition tells that he put out his eyes in order to prevent being distracted in his speculations.

De Morgan, Augustus (1866-1871), a mathe-matician of great eminence, who held the position of Professor of Mathematics at University College, London for cover bittit years.

London, for over thirty years.

De Morgan, William (b. 1842), son of the pre-De Morgan, William (b. 1822), son of the preceding, was engaged in artistic pursuits until 1906,
when he surprised the novel-reading world by a remarkably clever story of humour, characte, and
observation entitled Joseph Varue. Tas later novels
include Alice-for-Short (1907), Somehow Good (1908),
and IPhen Goast Mets Ghost (1914).

Demosthenes (385-332 B C.), the famous Grecian
orator, statesman and warrior. Sixty-one of his
oratons were preserved, and are regarded as perhaps
the finest examples of their kind.

D'Enghlen, Duc (1772-1804), a Bourbon prince
whom Napoleon suspected of complicity in the
Pichegri conspiracy for the Bourbon restoration,
and had him shot in Paris in the same year that he
himself was crowned himperor.

himself was crowned Emperor.

Denham, Sir John (1615-1669), a Royalist poet, whose descriptive poem "Cooper's Hill" achieved much popularity. Was knighted by Charles II., and honoured with burial in Westminster Abbey.

Denis, St., the patron saint of France, over whose grave the abbey of St. Denis was crected. He hyed in the 3rd century, being beheaded, according to

in the 3rd Centry, being beneated, according to legend, at Paris in 27.

Danman, Lord, P.C., K.C.V O., Governor-General rf. Australia 201-14 ib 1874]. Was Lord-in-Wating to the King, 1907-11, and Deputy Speaker of the House of Lord-in-

Dentatus, M. Curius (d. 270 B.C.), the Roman consul, who in 200 B.c. drove Pyrrhus out of Italy, and afterwards hied a simple life in the

Depaw, Chauncey M. (b. 1834), a well-known American lawyer, senator and railway magnate, who first came into pronunence as the legal adviser of the Vanderbilts, especially as regards the New York Central and Hudson River Railroad Companies.

De Quincey, Thomas (1985-1889), an enument essivist and enuc, the thend of Coleradge, Wordsworth, and Southey. His "Confessions of an Opium Fater" is a British classic.

Derby, Edward Stanley, 14th Earl of (1709-1860), was an emmout state-man. To served as Prime Minister in the Government of 1852, 1°58, and 1866 From a Whig he blossomed into a strunch Tory and

had little sympathy with democratic Torysin.

De Reazke, Jean (b. 1853) and De Reazke,
Edouard (b. 1856), two lamous operatic sugges,
the last a tenor, the see and a barnton, who accepts

the first a tenor, the second tearton, who are teachigh tame and minimus, tortaness by their singing in various parts of the world. The sare Poles.

Derwentwater, Earl of (1685-1710), the leader of the leight Jacobine movement for placing the Pretend r on the leighth throne. The rising took place in 1715, but was completely crushed by the leithth of Pretent, and Derventwater was believed.

Descartes, Rene iso-resp. he famous French
philosopher, mathematician, and author,
Cartesian philosophy, the basis of which is
up in the words "Cogeto, ergo, sum" ("I think,
therefore I evily"), well known.

Desmoulins, Tamille (1760-174), was one of the
fercest of the French Revolutionary leade
from the destinction of the Bastille to the
days of the Terror was undiscourant in his obstances.

days of the Terror was unflagging in his onslanghts up on the anstocrats and the priesthood. He fell under the displacement of Robesperre, however, and was sent to the gaillotone along with Danton, Detaille, Jean B. Edouard (1848 1012), a French

battle painter, who produced minerous thrilling pictures of scenes in the Franco-Prussian War

Deutsch, Emmanuel (1829 1873), a German Orientalist, who resided for the best part of his life m England, filling the position of Assistant Librarian in the British Museum, and making many acceptable contributions to Oriental Literature.

Devonport, Lord (b. 1850), tomerly Sir Hudson Kearley, M.P., and Lathamentury Serretary of the Board of Trade, 1005-00, has been Chairman of the Port of London Authority (without salary) since 1800; in 1012 in handling the Dockers' Strike showed great firmness in the face of much strong personal attack.

great filmess in the face of much strong personal attack.

Devonahire, Spencer Compton Cavendish, 8th Duke of (1833-1908). Entered parlament in 1853, as the Maiquis of Hartington, and speedily made a name as a Liberal politican, being Under-Secretary for War in 1803. War Secretary in 1806, Postmaster-General in 1808. Unter Secretary in 1806. For the Secretary for Ireland, 1871. Secretary for India, 1880. War Secretary, 1872. Separated from Mr. Gladstone on the Home Rule question, and in 1853 entered Loud Salisbury; third Ministry as President of the Council, which position he held up to the time of Mr. Clamberland's declaration of Fiscal Policy when he declared hunself a Free Trader, 116 succeeded his lather as Duke of Devonshire in 1801.

Devonshire, Wiotor Christian William Cavendish, 9th Duke of (b. 1869), nephew to the above, whom he succeeded in 1908. Was M.P.

for Derbyshire W. 1891-1908, and has been Treasurer of the Royal Household, Financial Secretary to the Treasury, and Junior Conservative Whip.

Dewar, Professor Bir James (b. 1842), a prominent chemist, and a native of Kincardine. In 1897 was appointed Fullerian Professor Of Chemistry at the Royal Institution, and in 1898, jointly with Sir Frederick Abel, invented cordite. He has attracted great notice by his experiments with liquid gases, in 1884, illustrated the liquefaction of oxygen and air by means of special apparatus, and in 1891 obtained liquid oxygen by the fount.

Deway, Admiral George (b. 1827), was a comparatively unknown American mani commander until his opportunity came in 1898 during the Spanish-American War, when he captured and destroyed the Spanish Fleet in Manula Bay.

De Witt, Jan (1665-1672). An eminent Dutch statesman, who carried on war with England and later negotiated the Triple Alliance, but was overthrown by the Orange Party and murdered—with his brother Cornelius—by the mob.

De Witte, Bergflus (b. 1840), a Russau Statesman of great ability; became Muisier of Wavs in 1892 and Minister of Finance in 1892, retried from office when the War Party gained the ascendancy, and opposed the war with Japan.

Plass, Porfirio (b. 1890), ex-President of Mexico. In the Revolt against the French authority in 1867 he greatly distinguished hunself, and in the Insurrection of 1875 against Junrez, he led his party to victory, and v selected President in 1871; a position which he helu until deposed by the revolution of 1901.

bdin, Charles (1746-1814), actor, dramatist and popular entertainer; gamen green popularity by his sea songs, written at the time when the Britist, says was engaged right the sower of France Obdin, Sir L (5 T., K.C., J.C.L. (b. 1854), Dean of the Court of A hes, was contested at Car bridge, a terward was called to time Bar, enjoyed a large Chancery practice, and was made K.C. in 1901. Has filled the Chancenorships in turn of Ronnester, Exerce, and Durham, and was appointed to his present post in 1903.

Plok, Thomas, L.L. D (1771-1857), a Scotch minister and scientist, whose astronomical writing, intended to support Christian tenching, were greatly read. His principal work was the Christian Philosop, her Dickens, Charles (1821-1876), the most popular

Dickens, Char'ns (12: 1870), the most popular novelist of the 1th century, Alio Four Very lumber beginnings worker, hims. I up by sheer genus 5 the higher sosition in the rodd of letters. Illi-literary output was enomous. From the time of the ilterary output was enormous. From the time of the publication of the Picture 12 are, does not to his death in 1870, covering a period at furity years, as produced over after novel, all possessing the original Dickensian characteristics, yet each wonderfully different from the rest, and his popularity continues undiminished. He fild so, much for the cultivation the true sentiment of Christmas, that, whenever that season comes round, his name is recalled with honour and homage, and in several issues of Fears' unit souson comes round, his name is recalled with honour and homage, and in several issues of Plans' Annual Inc Christmas wittings have been received with ample accompaniments, not only of the original flustrations, but with the addition of pictorial outlindings by eminent later artists. As a reader of his own works Dickens extracted a marvedlom dramatic glit, and in that capacity at home and in imerica made highly successful tours. He was buried at Mestimuster Ablery

Dickese, Frank, R.A (b. 1854), well known as the painter of mainteness pactures which rank lagh amongst the productions of our time, including "Harmony!" "Romeo and Julict," and "The Function of a Washinstein and R.A. fifted acatemy in 1876. Was made R.A. fit from Dickese, Denis (1773-1784), the famous French philosopher and editor of the Dickesmare Encycles Pacague, which occupied line thirty years.

Digby, Sir Everard (1788-1706), was concerned in the Cumpowder Piot, for complicity in which is executed.

Digby, Sir Kanelm (1603-1665), son of Sir Everard Digby, gras a scientist of great repute, who filled many diplomatic posts under Charles I.

Diggie, Rt. Rey, John William, Bishop of Carlisle since 1904 (b. 1847), was educated at Manchester Grammar School and Oxford; ordained 1891; Vicar of Mossley Hill, Liverpool, 1879-1806; Carrof Carlisle, 1896; and Archdeacon of Birmingham, 1903-1904. Is author of Bishop Fraser's Lancashure I.M. and other works.

of Carlisle, 1896; and 1997.

1903-1904. It sauthor of Bishop Fraser's Lanconductive, and other works,

Life, and other works,

Dilke, Rt. Hon. Bir Charles W., M.P., (1813)

1911, was a prominent member of the Liberal Party, who entered Parliament in 1868, and was made Under. Secretary for Foreign Affairs in Mr. Gladstone. Government of 1880. From 1882 to 1885 was President of the Local Government Board, and supported Mr. Gladstone generally on all public questions, in cluding Home kule. Was one of the best informed men in the House on Army and Navy matters any Foreign affairs. Wrote numerous books, and was provided to the Albenaum.

men in the House on Army and Navy matters any Foreign affairs. Wrote numerous books, and was the proprietor of the Alhemaum.

Dillon. John, M.P. (b. 1851), a prominent member of the Irish Nationalist Party, who did good service to his side under Parnell and suffered improsonment in respect of the famous "Plan of Campaign."

Dinwiddle, Robert (1692-1770), a Scotch diplomatist who from 1752 to 1758 was Governor of Virgina. It was at his suggestion that the territory of Ohio was appreced.

annexed.

Diocletian (A.D. 245-313), Roman Emperor from 284 to 395. Imagurated the system of partnership Emperors, dividing the Empire into four sections, administered by Emrself in the East, Maximan in Italy and Africa, Constantius in Britain, Gaul, etc., and Gallerius in Illyricum. Abdicated in 305. Was a great persecutor of the Chistans.

a great person of the Chistons, Diogenes (122-322 B C), the celebrated Greek cyric philosopher who is said to havelited in a tub, wearing the coursest clothing and hing on the plainest food. Many of his saying have been preserved, and serve

Many of his saying; have been preserved, and serve for occ should quotation

Dionyalus. Two of the tyrants of Syracuse bore this name. The first was a great soldier and statesman, as we was a poet and philosopher, and lived from 439-367 b.C. The second Douysus was his son and successor, but was of such a crud disposition that he was driven from the throne and died in

that he was driven from the throne and mee in obscurity in 3.4.

Disraell, Benjamin. (See Beaconsfield.)

Disraell, Isaac (1766-1848), the father of Benjamin.

Disraell. Was in interesting worker in a special hierary field, and produced some exceedingly interesting volumes dealing with authors and their writing.

His best known work is but Currostines of Literature.

DIXON, W. Hepworth (1821-1899), was editor of the Altenaum for many years and wrote several instorical works and books of travel.

Dobell, Sydney (1824-1874), an English poet, who between 1850 and 1800, published three volumes of verse—"The Roman," "Baider," and "Englan: real beauty and imaginative force. He was a Cheltenham wincoper bant.

Dobson, Henry Austin, L.L. D. (br. 1840), was in the Civil Service from 1850 to 1961, and is the author of several damity volumes of Society verse and some equally donty prose works, dealing chiefly with the

cipally carry prove works, ucaning emery was the sist centry.

Dodd, Dr. William (1720-1777), a clergyman who attracted puch notice by a volume entitled Beautic of Shakespeary, and won unfortunate notoriety later by being condemned and executed for forging the signature of the Earl of Chesterfield, his former pupil,

signature on the Earth classicalists, in some paper to a bond for £4,200.

Doddridge, Philip (1702-1751), a popular Non conformst preacher and writer, now best remembered by many beautiful by mas which rank high...

bered by many resultant in anis which rank mg/r all Figilish collections, and also by his work on Te-Ring and Property of Relayion in the Saul.

Poleson, C. L. (189, 1898), a writer and Professor of Mathematics, it Oxford, who, under the pseudony of Lewis Carroll, achieved lasting fame by his Alacia Adventures in Wondersand, one of the most de lightful books for children ever written.

Dods. Marcus, D.D. (1834-1903), one of the best known of modern Biblical scholars and expositors, who was before the public as an author from about 1860. From 1880 to 1907 he was Jutted Free Church Professor of New Testament Theology, Edinburgh, and in 1907 Principal of New College, Edinburgh, Bolei, Garlo (1616-1686), the famous Florentine painter, examples of whose Madonnas and saints are to be found in most National collections.

Bollinger, J. J. I. won (1790-1800), a German theologian and historian whose writings caused great controversy, his opposition to the doctrine of Papai Infallibility being much discussed.

Dominic, Es. (1797-1821), founder of the Order of Dominicians, or Black Friars, who devoted much energy to the conversion of the Albigenses, but meeting with small success, instituted a policy of persecution after the manuar of the later Inquisition.

Domitian (52-56), a Roman emperor who, after many

persecution after the manner of the later Inquisition.

Domitian (52-5), a Roman emperor who, after many cruel and tyrannical vcts, aroused the enmity of the popule and was finily assessinated.

Domald, Robert (b. 1862), a journalist of note, who has gathered his experience in many quarters at home and abroad, and is an authority on municipal work, trusts, and London life and labour. Is editor of the Datly Chronicle, Lloyd's Newsjagler, and the Municipal Year Book.

Domatelio (1986-1466), the famous Italian sculptor, whose works are to be seen chiefly at Florence, though several examples are at South Kensington.

Donizetti. G. (1797-1848), the Italian composer to whom we owe the operas of "Lucia di Lammermoor,"

"La Fille du Reginnent," "La Favorita," and others.

Donnae, John (1573 1851), a clergyman and religious

"La Fille du Régiment," "La Favorita, "and others.

Bonne, John (1573 1621), a clergyman and religious writer whose poems are still held in exteem.

Bors, Gustave (183-183), the well-known French aritst famous for his colessal scriptural paintings and his powerful illustrations to the works of Dante, Milton, and Tennyson.

B'Oreasy, Count Alfred (1798-1821), a Society dandy who married into the Blessington family, and later on, at Kensington Gore, with Lady Blessington formed a literary coterie, which for a time was of great induence. The Count was a versatile man, but of such extravagant habits that he ultimately became bankrupt, and retired to Paris, where Louis Napoleon did something to help him, and only a few days prior to his death had appointed him Director of the Arts.

Douglas, Archibald 1449-1514, ancestor of Lord

Douglas, Archibald (1449-1514), ancestor of Lord Darnley, husband of Mary Queen of Scots. He retired to a monastery in late life at Galloway, and

died there.

retired to a monastery in late life at Galloway, and died there.

Douglas, Sir James (1266-1330), known as Black Douglas, was a noted Scottish raider, and held a commander's post at the Battle of Bannockburn. Travelling through Spain to Palestine to deposit Bruce's heart at Jerusalem, he was attacked and killed.

Doulton ware, and one of the leading potters of modern times. His factories and works at Lambeth and Rowley Regis rar's among the great industrial establishments of the country.

Dow, Gerard (1673-1673), a great Dutch painter, follower and pupil of Rembrandt, whose works display a remarkable fidelity to nature.

Dowden, Bdward, M.A. (1623-1973). Well known for his critical and other writings, mainly dealing with the lives and works of the poets, and showing keen insight and appreciation, together with much beauty of style. Was Professor of Literature at Trinity College, Dubin, for 37 years.

Doyle, Sir A. Conan (b. 1859), the novelist who reached the point of highest popularity in his present-day detactive sketches, in which "Sherlock Holmes" is the central figure. Served as Senior Physician of the Langman Field Hospital in the South African War, of which campaign he wrote a history. Has also written plays.

Doyle, Richard (1824-1883), an artist of much

war, of which campaign ne wrote a instory. Has also written plays.

Doyle, Richard (1824-1883), an artist of much humour and fancy, who was exceedingly popular while on the staff of Punck, from 1841 to 1850. He also illustrated some of Thackeray's works, and the familiar cover of Punck is his work.

Drake, Sir Francis (1540-1596), the great admiral of Queen Elizabeth's time, who made many adventurous voyages, bent partly on discovery and partly on plunder. He was a leading figure—under Lord Howard—in the attack on and destruction of the Spanish Armada in 1550.

Drayton, Michael (1550-1591), author of Polyabbon, a poetic description of various parts of England, and of great interest for its topographical pictures and reforences. He was Foet Laureste, and was buried

reterences. The was rote Laurence, and was pursed in Westminster Abbey.

Drayfus, General Affred, a French officer, con-demned by a military secret tribunal on a charge of divulging secrets in 1894 to a foreign power, and condemned to imprisonment for life on Devil's Island, condemned to imprisonnient for life on Devil's Island, in French Guiana. At a sensational new trial in 1899 he was again found guilty, and sentenced to a mitigated term of incarceration for ten years; but strenuous efforts on his behalf secured a pardon later. In 1906 he was entirely exonerated and reinstated in the army, with the rank of General, and made a Chevalier of the Legion of Honour,

Drummond, Henry (1852-1897), a Scottish religious writer, who endeared hinself to the Christian community by his two works, Natural Law in the Spiritual World and The Ascency Man. Although no formidable antagonist to Darwinism, his writings possess great charm.

possess great charm.

possess great charm.

Prummond, James (1675-1720), took a leading part in the Jacobite rebellion of 1715, and, escaping with the Pretender, spent the remainder of his life in exile at St. Germain.

Prummond, William (1735-1640), a Stottish poet —laird of Hawthornden—whose works cealt largely with political matters, but revealed considerable poetic power. Ben Jonson walked from London to Scotland to pay him his respects.

Drydan, John (1631-1700), one of the most vigorous and prolific of English poets and writers, and a popular dramatist. He excelled in satire, and drew some powerful pictures of the statesmen of his day.

popular dramatist. The extended in satire, and drew some powerful pictures of the statesmen of his day. His translation of Vingil ranks with Pope's trans-lation of the "Iliad." He was burned in Westminster Abbey. Originally a Parliamentarian he went over Abbey. Originally a Parliamentarian he went over to the Royalists, and was laureate and historiographer-royal, 1670-88.

Du Barry, Counces (1741-1793), the favourite of Louis XV., who exercised great influence over the King, but after his death, and the breaking out of the Revolution, took refuge in England for a time. Being tempted to return to Paris in 1793 she was

Being tempted to return to Paris in 1793 she was arrested and guillothed.

Dublin, Roman Catholic Archbishop of. (Sec Walsh.)

Du Chaillu, Paul (1837-1904), a noted African traveller who was chief of General Gordon's staff in 1874, and wrote many valuable books of travels, his studies of the gorilla being especially interesting.

Dudley, Earl of (b. 1866), Governor-General of the Australian Commonwealth since 1908, was Lord-Lleutenant of Ireland, 1902-1905, in which position he showed a tactful sympathy which made him highly popular. Previously he had been for a short period Parliamentary Secretary to the Board of Trade. He was in sympathy with the Derolution Policy, and Chairman of the Commission on Congestion in Ireland

Duffarin and Awa, Marquis of (1826-1902), was

on Congestion in Ireland
Dufferin and Ava, Marquis of (1826-1902), was
a diplomatist of great experience, a writer of
undoubted brilliance, and filled many high offices
with distinction and success, including those of
Governor-General of Canada, Viceroy of India, and
Ambassador to France, Russia and Turkey.
Dugdale, Sir William (1602-1686), the English
antiquary famed for his Monasticen Anglicamum,
Was knighted by Charles II.
Du Guassilina, Constable of France (1314-1380),
achieved great fame in the wars with Edward III.
and the Black Prince, ultimately driving the English
out of France.

and the black rance, unmarely driving the Lagram out of France. Named (1802-1870), the famous French novelist, and dramatist, who published more volumes than any man of his time, the greater part of them of high merit. In the field of historical

romance he showed wonderful power and resource, and his thrilling story Monte Cristo is one of the great novels of the syst century, Durman, Alexandre, Fils (1824-1835), was the son of the last-named, and attained almost equal fame with his father, both as novelist and dramatist. name with his nativer, both as novelist and dramatist. His stories and dramas dealt mainly with the current time, and were often written round some striking social existen. His La Dame aux Camelias was his most funous novel.

his most funous novel.

Bu Baurler, George (1834-1896), one of the ibest known of the Panck artists during a long period, and author of the novels of Petr Ibbetson, Trilby, and The Mastian. His pictorial satires of Society fobbles were sometimes scathing, and he owed a good deal to his early Parvian associations.

Pumourler, Charles François (1739-182), a celebrated French general, who, in the early period of the Revolution (1780-1790), distinguished himself in opposing the armies of Austria and Prussia.

Dunbar, William (1460-1829), a distinguished Scottish poet, author of "The Thistle and the Rose," and many other pootic pieces of a quaint fance.

and many other poetic pieces of a quaint fancy.

Dancan, Adam, Viscount Camperdown

[1731-1804], won great renown and his title by a brillant victory over the Dutch in 1700 FC 1700 Art. irja-reod, wo great renow and ns title by a bri-liant victory over the Dutch in 1797 off Camperdown. Dundonald, Thomas Coobrane, 10th Earl of (1775-1860), a Birtish admiral who was sheeted and disgraced on a charge of trauchulently deseminat-ing false reports, and subsequently commanded the Chilian, Brazilan, and Greek myres in turn. After

Chillan, Brazilian, and Greek 'nnvies in turn, After being under a cloud for eighteen years, he was exonerated from all allegations made against him, and restored to his former rank and honours.

Duridonald, Lord (b. 1852), a distinguished English general who served in the Nile Expedition of 1884-1885, and in the Rehef of Khartonin; also held a cavalry command in the South African War, and was afterwards in command of the Canadian Militia. His lordship is the 12th Earl, and like his ancestor last mentioned, and also the 9th Earl, is a man of invention and scientific attainments.

Dunn, J. Wicol (b. 1855), has had a large and varied journalistic experience, first in Scotland and afterwards in London. Was editor of Black and White, 1895-1897. Subsequently edited the Morning Post, later the Manchester Courser, and in 1911 accepted an editorial position in S. Africa.

an editorial position in S. Africa.

Dunne, F. P. (b. 1867), an American humourist who has gained a wide reputation for his "Mr. Dooley" papers, which have been appearing for several year and contain much abrewd comment on the topics of the time. "Mr. Dooley" is an Irish-American saloon-keeper, who retails his views in conversation with "Mr. Hennessy," his customer and compatriot. Dunnewan. Barl of (b. 1841), has had a very active career in many parts of the world. Was war correspondent during the Siege of Paris, and served in the South African War. Made two attempts to win the America (yachting) Cup, but without success. More recently he has been associated with the Irish Reform Association, of which he is chairman. In 1907 published The Outlook in Ireland.

Duns Bootsus, J. (crac 1205-1308), a famous scholas-

Duns Scotus, J. (circa 1265-1308), a famous scholas-tic, who was, according to tradition, born at Duns, in tic, who was, according to tradition, born at Duns, in Berwickshire, and became a Franciscan trara and theological professor at Oxford. Later he was, it seems, regent of the University of Paris. He was the great doctrinal opponent of Thomas Aquinas. **Dunstan**, **3E.** (924–98), the famous Abbot of Clastonbury and Archbishop of Canterbury, who lived through the reign of five kings, and exercised great political influence.

political influence.

Buplaix, Joseph Francois (1697-1763), was governor of the French East 'Indian prosessions at the time when Clive was guiding the fortunes of the Bast India Company, and after Clive's Victory at Plassy Dupleix's day was over. He returned to France, and fell into diagrace and poverty.

Durand, Right Hon. Sir H. Mortimer (b. 1850), at one time political secretary to Lord Roberts, and filled many diplomatic positions, being Ambassador to Spain until 1904, when he was appointed to the post of Bakish Ambassador at Washington. Sir

Mortiner's Indian and Afghan experiences are extensive, and he writes well on Oriental affairs. Our harm, John George Lambdon, Earl Olygo-18-0), a statesman who did great public service by undertaking the readjustment of administrative grievances in Canada in 18-98, his wise suggestions served for the foundation of the self-governing principle in the Dommion.

Direct, Albert (1971-19-88), the great German painter and engravings are in the British Museum. Of Nuremberg birth, he may be regarded as the founder of the German school and the inventor of etcling.

Duse, Elenors (b. Venice, 1861), an Italian tragedienne of world-wide reputation, whose impersonations of various classic parts have greatly impressed the critical audiences of London, Paris, and New York. She has frequently performed for

and New York. She has frequently performed for short seasons in London.

short seasons in London.

Buval Glaude (162,1-570), a notorious highwayman who, coming to England from Normandy in the
Duchess of Richmond's service, took to "the road,
and for a few years successfully evaded capture.
He, wasthanged at Tyburn.

Bohemian composer. Combined with a striking
originality, his compositions show fine musical qualities. Made himself popular in this country by his
"Stabat Mater" in 1880, and his cantata "The
Spectre's Bride."

Byer, Sir W. T. Thistlaton- (b. 1843) a great

Spectre's Bride."

Dyer, Sie W. T. Thistleton- (b. 1843) a great authority on flora and plant lore, and son-in-law of Sir Joseph Hooker, the botanist. Was for twenty years prior to 2905 Director of Kew Gardens, Has written learnedly on the flora of Middlesex and of Africa, and held, prior to going to Kew, first the Professorship of Natural History at the Royal Agnicultural College, Cirencester, and then the Professorship of Botany at the Royal College of Science for Ireland.

Dyson, F. W., F.R.S. (b. 1868), Astronomer Koyal since 1910. Was previously (1905-10) Astronomer Royal for Scotland,

Eadmer was the name of an English monk and historian, who hved in the latter part of the 11th century and commencement of the 12th. He was the friend of Anselm at Canterbury, and wrote the life of the latter, of Dunsian, and others, besides being the

author of the fisitoria Novorum.

East, Sir Alfred, A.R.A. (1840-2013), a landscape painter whose works are deservedly popular, many of his paintings being distributed over the leading galleries of Europe.

galeries of intrope.

Eastlake, Sir Charles L. (1793-1865), an eminent Haglish painter who was made R.A. in 1890, and twenty years later became President of the Academ, His works were mostly of a religious character, and were much admired in their day. He was keeper of

were find a dialog at their lag. The was accepted to the National Callery, 18(3-18/2). It were known noveless and Egyptologist, who attained a world-wide reputation by his principal novels; especially An Egyptian Princess. Was Professor of the Leipzug University

tion by ins principal novers, especially an expression princess. Was Professor of the Leipzag University in 1870, and died in Bawaria. Bek, Johann won (1486-1541), was one of the most vigorous opponents of the Reformation in Germany and in pumphlets and public discussions showe! great activity and resourcedtiness, denouncing Luther with exceeding histograms.

great activity and resourcefulness, denouncing Luther with exceeding bitterness.

**Bddy, MFB. Mary Baker [1822-1911], founder of the "Christian Scientists," was the author of a work entitled Science and Health, which almost ranks as a sacred book with the millions of her adherents. There are said to be nearly 700 Christian Science Churches, and Mrs. Eddy was understood to posses in subscribed funds some nillions of pounds, Mart Twain published a bitter attack upon ther in 1902.

Edgar, King of England from 959 to 975, was a monarch of onlightened ideas, who under the influence of Dunstan was able to carry out many useful reforms.

useful reforms.

Edgar Atheling, as grandson of Edmund Ironside, was the lawful heir of Edward the Confessor, but in the confusion of the Norman invasion he was unable

o maintain his clain

the confusion of the Norman invasion he was unable to maintain his claim.

Bdgworth, Maria (1767-1840), a well known authoress, whose stories of Irish life, Castle Rachrent, The Absentes, etc., were remarkable for their rich humour and tendemess. She also wrote, in collaboration with her father, Richard Lovell Edgeworth, on educational subjects, and, independently, a number of books for children.

Sdison, Thomas & Mwa (b. 1847), the American inventor, who after an adventurous boyhood became a telegraph operator, and had his attention directed to electrical problems. Established himself in New York in 1869, and invented an improved printing celegraph. In 1876 set up an elaborate laboratory and factory at Menlo Park, New Jersey, from which place he has sent out many clever and some starding inventions, including a system of duplex telegraphy, afterwards improved into quadruplex and sextuplex transmission, the phonograph, and a method of preparing carbon filaments for the electric lamp. Saxunda Hromadde (1880-1815), the son of Ethelred, after years of contention with the Danes, made a compact with Cannet to divide England between them, but dying shortly afterwards the kingdom was settled on Canuter. and Saint, the last king of the England and an archod character, and Saint, the last king of the

settled on Canute.

Edmund, Martyr and Saint, the last king of the
East Angles, who began to reign in 855, and was
killed by the Danes in 870.

Edmund, 84. (errea 1170-1240). Archbishop of Canterbury, championed the English Church against Papal
cencroachment; died in France; canonised 1247.

Edward the Confessor (circa 1004-1006), the
Anglo-Saxon king who immediately preceded—save
for the brief reign of Harold of less than a year—the
Norman Conquest, and founded Westminster Abbey,
where a smaller church, then disnidated, had prewhere a smaller church, then dilapidated, had pre-viously for a period had a precarrous existence. He was a religious-minded mystic, and was canonised in rror, and given the shrine in the Abbey of his origination, which yet remains fairly intact, despite

origination, which yet tensains tany mises, severe the ravages of Time and disturbing hands.

Edward the Eldar was the son of Alfred, and succeeded him as King of the West Saxons in 901. He was successful in overcoming the Danes, and became overload of the Northern countles.

Edward the Martyr (953-979) became king in succession to Edgar, but, although supported by Dunstan, was not able to prevail against his step-mother Elfrida, who had him murdered.

mother Litrida, who had him murdered.

Rdward I. (1239-1307) was king of England from
1272 to 1307. Took part in the Crusades, completed
the conquest of Wales, overcame Scottish opposition
—executing Wallace and receiving the submission of
Bruce—and promulgated many wise laws. He was
nicknamed "Longshanks."

nichanned II. (1984-1974), the son of Edward II., suc-reeded his father when the latter died at Burgh-ever-Sands in 1997. Suffered defeat at the hands of the Scotch at Bannockburn, and on account of his arbitrary disposition, cruelty, and lavish concessions to favourites, was deposed in 1927, and afterwards murdered at Berkeley Castle.

Edward III. (1312-1377) was one of the ablest of English monarchs who, although much taken up with long and bitter wars with France and Scotland, did much for the commercial interests of the nation, and much for the commercial interests of the nation, and was the means of introducing large numbers of Flemings into the country, who laid the foundation of the English textile manufactures. He married Philippa of Hainault, and was the father of Edward the Black Prince.

Edward IV. (1441-1483) attempted unsuccessfully to regain the lost English possessions in France, and resorted to many despotic expedients for obtaining

resorted to many despotic expedients for obtaining supplies, but it stands to his credit that he entered roto trading treaties with the commercial merchants of the Continent which were of benefit to his people.

**Baward W. (1470-1483)—son of Edward IV. and Elizabeth Woodville—was the unfortunate king who was put to death in the Tower of London, and succeeded by Richard III., his unscrupulous uncle,

who had made himself "Protector" and assumed the Crown a little more than two months after the death of Edward IV., publishing the demise of the young King and his brother the Duke of York as having

King and his brother the Duke of York as faving occurred in prison. The bones of the murdered boys were many years afterwards taken to Westminster Abbey for final burial.

Bdward VI.** (1527-1533) succeeded his father, Henry VIIII., when in his tenth year, and died in his stateenth year. The Reformation, under the Regency of Somerset first, and then of Northumberland, made considerable progress during his brief reign. He was induced during his last illness to name Lady Jane Grey his successor, with results disastrous to that unfortunate personage and many others concerned.

others concerned.

disastrous to that unfortunate personage and many others concerned.

Mc ward WIL (1841-1910). His late Majesty was privately educated; afterwards passed through a course in succession at Edinburgh, Oxford and Cambridge; travelled in Italy and Spain in 1860; and made a tour of the Holy Land in 1860; and made a tour to Egypt in 1865. Suffered from severe attack of typhoid in 1871. Visited India in 1879, and from that time onward was constantly in the public eye, taking part in all kinds of functions. Succeeded to the throne on the death of Queen Victoria, Jan. 22, 202. His Civil List was fixed at £470,000 a year. The Coronation which had been planned for June 26, 2002, had to be postponed in consequence of the King's sudden illness, but eventually took place on the 9th of August in the same year. The incidents of the King's nine years' reign are too familiar to need repetition. His Majesty was a powerful factor in the preservation of the peace of Europe, his friendly intercourse with the heads of the French, German, and other nations earning for him the title of "Edward the Peacemaker."

Mc wards. John Passmore (1823-1911), was for many years proprietor of the Eche and other London papers, and after acquiring a fortune devoted himself to public affairs and philanthropy. He was M.P. for Salisbury from 1880 to 1885. In the founding and development of free libraries and art galleres, as in many other charitable directions, he performed great and substantial service.

founding and development of free libraries and art gallenes, as in many other charitable directions, he performed great and substantial service.

Bd wards, Jonathan (1703-1758), was an American metaphysician who obtained a high reputation by his Treatuse on the Freedom of the Will. He wrote many other books of a religious nature, and attained great eminence as a preacher. His son, Jonathan Edwards the younger (1745-1801, was an American Congregational clergyman of some eminence.

Edwin, King of Northumbria, killed in battle Hatfield Chase, Yorkshire, in 642, He was beptised into the Christian faith at York in 6e7, and built a church there. He was canonised later.

into the Christian faith at York in 6e7, and built a church there. He was canonised later. Bdwy was an Anglo-Saxon king, son of Edmund I. He succeeded his uncle Edred in 955, and died in 958, when under twenty years of age, after having undergone considerable cruelty at the hands of ecclesiastics who resented his wedding with a relative, Eigiva, who was put to death. Efbart was a descendant of Cerdic, king of the West Saxons, and reigned from 802 to 899 in Wessex; in his latter years became the first king of all England. In 895 he had to drive the Northmen away from Cornwall.

Elagabelus was the Emperor of Rome from 202 to 100 per 100 per

Elagabalus was the Emperor of Rome from 218 to

Elagabalus was the Emperor of Rome from ast to 222, and after a despicably wicked reign of less than four years was put to death by his soldiers.

Eldon, Earl of (1751-1878), was Lord Chancellor from 250 to 1827 after a distinguished career at the Bar and in Parliament. He was a man of high integrity, whose father, William Scott, was a Tyneside coal-fêter. John Scott was the third son, and went to Newastie Grammar School. He applied himself so assiduously to general study and afterwards to the law, that he rose to the Woolsack, being created in turn Viscount Enscombe and Earl of Eldon. Another brother became a celebrated jurist also, and as Baron Stowell is noted for his decisions in international law.

Eleanor. Queen of Edward I. (d. 1290), was a woman of great plety and devotion. After her death woman of great piety and devotion. After her death the king had memorial crosses erected at the twelve

places where her body rested on its way from Grant-man to Westminster.

Elgar, Eir Edward (b. 1858), studied music, and settled at Malvern as teacher and composer. Since 1892 has composed many notable cantatas and other see has composed many notable cantains and other works, which have been performed at various festuvals, achieving a high reputation by his "Caractacus," given at Leeds in 1863, "The Dream of Gerontus," produced in 1900, "The Apostles," performed at Birmingham in 1903, and "The Kingdom," given at the Birmingham Festival of 1906. In March, 1904, he was honoured with a three days' festival at Covent Garden, and knighted in 1904.

Eighn, James Bruce, 6th Earl of (1811-1863), a prominent English statesman, who filled in succession the important posts of Governor of Jamaca,

cession the important posts of Governor of Jamaica, Governor-General of Canada, and Governor-General of India, and also served in China and Japan with distinction.

Elgin, Thomas Bruce, 7th Earl of (1766-1811), a British diplomatist who brought to England from Athens the famous "Elgin marbles," now in the

British Museum.

British Museum.

Bigin and Kincardine, Victor Alexander

Bruse, 9th Earl of (b. 1840), Liberal statesman,

Treasurer of Royal Household and First Commussioner of Works, 1886; Viceroy of India, 1894–1899;

sioner of Works, 1886; Viceroy of India, 1894-1899; Colonial Secretary, 1995-1998.

Bilbank, Master of. (See Murray, Lord.)

Bilot. Sir Charles (b. 1864), was appointed in 1888 third Secretary to the British Embasy at St. Petersburg, and later served at Taugier, Constantiople and Belgrade. In 1898 the was made a C.B. and transferred to Washington. Was on the Sanora Commission and created a K.C.M.G. in 1900. More recently was Consul-General for the East Africa.

Protectorate, and Succ. 1912 has been First Principal Protectorate, and since 1912 has been First Principal

Protectorate, and since 1912 has been First Principal of the University of Hong-Kong.

Miot. George. the pen name of Marian Evans, who between 1893 and her death in 1880, produced some of the most memorable novels of the 19th century, including Adam Bede, The Mill on the Floer, Silas Marrer, Middlemarth, and Daniel Deronda.

Miot. Sir John (1592-1593), was one of the leaders of the House of Commons opposition to the demands of Charles I., and with nine others was committed to the Tower, where he died in 1692.

Mikabeth. Queen (1533-1603), came to the throne in 1598 at the age of twenty-five, and reigned forty-five years. Was a fervid Protestant, a sincere lover of her country, a mavetrul and enlightened ruler—

hee years. Was a tervior Protestant, a sincere lover of her country, a masterful and enlightened ruler—fickle as far as her favourites were concerned—and added distinction to a distinguished period. The defeat of the Spanish Armada, the execution of Mary Stuart, the naval supremacy of England, the extension of her colonies, and the glory of a great new literature of which Shakespeare was the brightest comments are features that specifical with her select.

sion of her colonies, and the glory of a great new literature of which Shakespeare was the brightest ornament, are features that associated with her reign.

Illisabeth, St., of Hungary (1207-1231), was daughter of Andrew II. of Hungary (1207-1231), was daughter of Andrew II. of Hungary, and wife of Louis IV., Landgrave of Thuringia. Becoming a widow, she forsook the pomp of courts, and lived in retirement and poverty, dying at twenty-four, and afterwards being canonised.

Illisabeth Stuart, Queen of Bohemia (1206-1652), dugiter of james I., and mother of the Prince Rupert and Princess Sophia (mother of George I.). She clied a widow in London.

Illisabeth Stuart, Queen of Bohemia (1206-1652), dugiter of james I., and mother of Edward V., to which ill-fated Frince sine gave birth whilst within the shelter of sanctuary at Westminster.

Illio, Bhamesar (1791-1849), the famous "Corn Law Rhymes," whose poems did much for the access of the Anti-Corn Law Agitation.

Illisa Et. Hon. John Edward, T.C., M.P. (1843-1971), was a prominent Liberal politician who was appointed Under-Secretary for India at the close of 1905 in Sir Henry Campbell-Bannersum's Government, but after one year's service resigned because et ill-health.

Elphinstone, Mountstuart (1779-1859), an Indian Administrator of great ability, who from 1879-1829 will Governor of Bombay. One of the chief founders of our Anglo-Indian Empire.

Emerson, Ralph Waldo (1803-1828), the American essayist and philosopher. His Conduct of Life.

Representative Men, and Essaye, are in their wa, the most brilliant things that American literature his produced.

the most brilliant things that American meracuse improduced.

Emin Pasha (1840-1892), a noted African explorer of Jewish parentage and German birth. Was associated with Gordon Pasha in the pacification of the Soudan, and showed marked ability in the government of the equatorial provinces. He was menace by the Mahdi and cut off from Egypt in 1883, berrelieved by Stanley in 1893, Returning to Africa 1: 1890, he was eventually murdered by Arabs.

Emmet. Rousers (1778-1804), the enthuisastic vont who led the rebellion in Ireland in 1803, and was tried and executed in the same year for high treason. He is one of Ireland's patriotic heroes, and has been immortalised in song and story.

He is one of Ireland's patriotic heroes, and has been immortalised in song and story.

Emmott, Baron (formerly Rt. Hon. Afred. Finnott (M.P.), Chairman of Ways and Means, 1905-1911) (b. 1858). Raived to the peerage and made Under-Secretary for the Colonies (1971).

Ennius, Quintus (399-169 B.C.), the Roman epic poet and friend of Scipio Africanus the Elder.

Epictatus of Hierapolis, the Stoic philosophe: who lived in the 1st century, and was a moral teacher of great repute and influence.

Epicurus (342-270 B.C.), the founder of the Epicurea.
philosophy, which taught that Virtue should be
followed, because it leads to happiness, which is the highest good.

Ergamus Desiderius (1466-1536), the great Dutc.; philosopher and scholar, of whom it was said that ne "laid the egg which Luther hatched." He was a formidable controversialist, and exerted great influence upon the advanced thought of his time.

Frastus, Thomas (1524-1583), was a German theologian who proclaimed a policy of Church restriction which developed into what is known as Erastianus.

Ericason, John (1803-1889), a distinguished Swedish eigeneer who entered into competition with George Stephenson in the first famous trial of locomotives. Later he settled in the United States, and devotes

Later he settled in the United States, and devotes lamself with much success to manne engineering.

Erskine, Thomas, 1st Lord (1750-1803), the emment English lawyer, who after a brilliant success at the Bar was made Lord Chancellor in 1806.

Esher, Reginald Baltol Brests, 2nd Yiscount, G.C.B. (h. 1823), as on the Royal Commission of Inquiry into the South African War, was chairman of the Army Organisation Committee, and edited, with Mr. A. C. Benson, the Letters of Query Victoria. Deputy-Governor and Constable of Windsor Castle.

Windsor Castle.

Basex, Robert Devereux, 2nd Earl of 15071501), became Queen Elizabeth's favourite after the
death of Leicester, and for a time held many important posts, but, offending the Queen by certain ac.,
in Ireland, was suddenly deprived of his honours and
committed to prison. Later on, being liberated, he
was implicated in a rebellious invoement, for whic's
he suffered death on Tower Hill.

Ethelbert, King of Kent at the close of the 6th cetury and commencement of the 7th. Famous to having accepted Christianity on the entreaty of St. Augustine. Published the first code of written laws in English. Ethelbert was afterwards canonised

Ethelred I. was the Anglo-Saxon king who reigned

from 866-871 and defeated the Danes at Ashdown.

Ethelred II., King of Fugtand from 979-1016 received the surname of "the Unready." because or his slowness to take action against the Danes, with whom he was more or less in conflict during the

whole period of his reign.

Ethelwulf was the Anglo-Saxon sovereign who succeeded his father Egbert in 837. Died in 857, and

was buried at Winchester.

Etty, William (1787-1849), a famous English R A., who contributed to the Royal Academy some of its most admired pictures between 1820 and the time of

his death. Among his famous pictures are "The Coral Finders," "Cleopatra," "Joan of Arc" (a series), and "Youth at the Prow and Pleasure at the Helin."

the Helin."

Ruelid, the famous Greek mathematician, who lived in the 3rd century B.C., and whose Elements of Geometry are as sure of Immortality as the "Iliad."

Rugana, Frince (1663-1736), a colebrated Austrian general who became associated with the Buke of Mariborough in the War of the Spanish Succession. A brilliant commander and capable statesman.

Ruganie, ex-Empress of the French (b. 1826), was the daughter of Count Montijo of Granada, and on the mother's sale of Scottish descent. She married Napoleon III. in 1833, and for many years kept a brilliant court. On the outbreak of the France-Prussian War her husband and only son proceeded to the seat of war with great flourish of proceeded to the seat of war with great flourish of runnyets, but after Sedan the Empress had to make rrumpers, but after secon the Empress had to make her escape from Pans in disguise, and took up her abode in England, where she was subsequently gomed 1-y Louis Napoleon. They resided at Chislehurst for a time, and there her husband died. Her son went out to the Zulu War in 1879, and was killed by a party of Zulus. When in England the Empress resides at Farnborough Hill, Hants.

resides at Famborough Hill, Hants.

Burlpides (480-406 k.C.) was the greatest of Greek
tragic poets. He wrote seventy-five plays, eighteen
of which have been preserved, the most amous being
"Alcestis," Medea," "Iphigema," and "Orestes."

Busebius (264-340), an ecclesiastical historian of
rare industry, whose works are still held in great
esteem. His Chronion is a history of the world
down to his own time, while his Enclesiastical History
traces the chief events of the Clinistan Church over
the same period. He was a nature of Casarea.

Evans, Rt. Hon. Sir Samuel, P.C. (b. 1859),
President of the Probate, Divorce and Admiralty
Courts since 1910. Was Solicitor-General, 1908 1910.

Evalva. John (1620-1906) an Fighly Centiquan

Evelyn, John (1620-1706), an Finghish gentleman who wrote several scientific works, but is hest known by his Diary, which covers a good part of the reigns of Charles I., Charles II., and James II., and

reigns of Charles I., Charles II., and James II., and is valuable for its shrewd pictures of the period. Eversley, Rt. Hon. G. J. bhaw-Lefevre, 1st Baron (b. 1832), long one of the most active and prominent members of the Liberal side of the Honse of Commons. Served in turn as Civil Lord of the Admiratty, Secretary to the Board of Trade, Under-Secretary Home Department, Secretary to the Admiratty, First Commissioner of Works, Postmaster-General, and President of the Local Government Borrd. Introduced supenny telegrams.

Ewald, Georg Heinrich August (1803-1875), an emment German scholar and theologian, whose studies in Biblical literature gained him great fame. He wrote on the Pactual Books of the Old Testament and a History of the Prople of Israel.

studies in Hibheal literature gained him great fame. He wrote on the Postcal Books of the Old Testament and a History of the Veofee of Israel.

Ewring, Juliana Horatia (1841-1885), was a native of Ecclesfield, Yorkshire, and made a name as a writer of children's stories, many of which won very wide populanty, among them The Land of Lost Teys.

Eyrek, Jan Wan (1389-1440), a famous Flemish painter whose works are distinguished for their brilliance of colour and finish.

Eyre, Edward John (1875-7007), from being a traveller and explorer entered the Diplomatic Service, and became successively Lieutenant-Governor of New Zealand, Governor of the West Indies, and Jamaica, being appointed to the latter position in 1862. In 1865 a rebellion broke out among the natives, and this movement was repressed with a strong hand by Governor Eyre. Afterwards charges of cruelty were brought against him, and an inquiry was instituted, resulting in his acquittal.

aber, Frederick William (1814-1863), the hymn-writer and oratorian, was educated at Shrewsbury and Oxford for the English Church, but under the influence of Cardinal Newman went Faber,

over to the Church of Rome, and founded the Wilfridian Brotherhood at Burmingham, subsequently taking them over to the Brompton Oratory. His hymns are semarkable for their lofty spirituality and

hymns are semarable for their any spinishing ambeauty of form.

Fablus Maximus (d. 203 B.C.), the Roman Consult and Dictator, saved Rome from conquest by Hamilbal by deliberate and well-planned strategic evasion of battle which in the end, after eight years of the confidence of the military by introduced the military by introduced the military by introduced the military by introduced the military by the confidence of the military by the milit evasion of dattie which in the end, after cight years of vain effort, caused Hannibal to withdraw his forces to Tarentum. There in 209 B.C. Fabius overcame the Carthagnian general, and Rome was safe. The term "Fabian Policy" is derived from Fabius's tactics.

safe. The term "Faban Policy" is derived from Fabius's tactics.

Faed, Thormas. R. A. (1826-7900), one of the most successful of Victorian painters, won a great reputation for his Scottish subjects, especially those dealing with humble life, such as "The Mitherless Bairn," "Auld Robin Gray" etc.

Fahrenhest, G. D. (1966-7796), a Dutch scientist, who introduced quicksilver in the construction of thermometers, and laid down the Fahrenheit thermometrian in the season of the Weish Church Commission. Head of Mansfield College, Oxford, from its foundation in 1880 to his retirement in 1908. Wrote and lectured extensively in Britain and America, and actively interested himself in educational legislation. Was Chairman of the Congregational Union in 1883.

Fairbaira, Sir William (1780-1874), mechanical engineer and inventor, bornat Kelso, Roxbu ghshire, in very humble life, and worked for some years in various parts of the country as an engine-wight. Set up business in Manchester as an engineer, and, by the introduction of humerous mechanical improvements, and especially by the first utilisation of hom a suphulding bersine cument and wealthy. improvements, and especially by the first utilisation of iron in slupbuilding, became emment and wealthy, and was made a baronet in 1860.

Fairfax, Edward (1580-1635), son of a Yorkshire baronet, and translator of Tasso.

Fairfaz. Thomas. 2rd Lord (1612-1671). a prominent leader of the Parlamentary army during the Civil War, who greatly distinguished himself at Marston Moor and Naseby; refused to march against the Scots in 750; and lived to have a hand in effecting the Restoration.

in effecting the Kestoration.

Falionner, William (1732-1769), a Scottish poet born in Edinburgh, who wrote the "Shipwreck," a stirring poem of many beauties, in which he described his own experiences on an Hast Indiaman, Palkland, Viscount (1670-1643), was at first a supporter of the Parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the disputes the control of the parliamentary cause in the dispute the control of the parliamentary cause in the dispute the control of the parliamentary cause in the dispute the control of the parliamentary cause in the dispute the control of the parliamentary cause in the dispute the control of the

between the popular representatives and Charles I but refused to co-operate with them in their later demands, and later fought for the king. Was killed at the first battle of Newbury.

at the first battle of Newbury.

Fallleres, Clement Armand, President of France, 1906-19 (b. 1841). At the time of his election, to succeed M. I. Joubet as the head of the Republic, M. Fallieres, who is a barrister of Gascon burth, was President of the Senate, a difficult position which he had sustained with dignity for some years. For a brief period in 1833 he was Prenier, and in political leaning favoured the Republican Party.

Faraday, Michael (1791-1867), the eminent chemist, who was Professor of Chemistry in the Royal Institution, and acquired deserved fame for

Royal Institution, and acquired deserved fame for his brilliant experiments in connection with electricity, and his able and clearly-written scientific books. He was orginally a bookbinder.

Farrar, Frederic William (1831-1903), Dean of Canterbury. Wis a well-known divine and author, some of whose writings intained a large circulation, and exercised a considerable influence. His most popular publications were The Life of Christ, The Life and Works of St. Paul, and Early Days of Christianity.

Farwell, Et. Hon. Sir George, Judge of the High Court, 1890-1905; Lord Justice and Privy Councillor in 1906. Resigned Lord Justiceship, 1913, Was Chairman of the Boer War Storus Commission.

Faure, François F. (1841-1899), was a successful shipowner at Havre. Elected to the Chamber of Deputies in 1881, he was chosen President of the French Republic in 1895, which position he held at

the time of his death.

Fawoett, Henry (1833-1834). The son of a farmer, he was educated at Cambridge, and entered for the Bar. In 1858 he had the misfortune to be blinded by ne was enucleated at Camoriage, and entered for the Bar. In 1856 he had the misfortune to be blinded by a stray shot from his father's gun, and to most men this would have been a block to a carer, but Fawcett stuck resolutely to his first aim. Made himself known as an earnest publicits by producing a Manual of Political Economy in 1863; after which he was appointed Professor of Political Economy at Cambridge. In 1865 he entered Parliament, and became one of Gladstone's most trusted lieutenants, devoting himself largely to Indian finance, and economical questions generally. Was made Postmaster-General in 1880, and was the means of introducing the Parcel Post, Postal Orders, and surpenny telegrams, Fawcett, Mrs. Millicent Garrett (b. 1847), widow of the foregoing; a woman's suffragist and educational reformer, and a very capable writer mobilitizal economy. Is hon, L.L. D degree of St. Andrew's University, and was one of the commission of ladies who went out to South Africa during the war to examine the concentration camps.

war to examine the concentration camps

war to examine the concentration camps.

Fawkes, Guy (1570-1606), a Yorkshire Catholic,
who with Catesby and other conspirators planned the
Gunpowder Plot. Although warned of the discovery
of the plot, Fawkes persisted and was captured in
the cellar of the Parliament House and hanged,
(See Gunpowder Plot, General Information

Fachter, C. A. (1824-1899), an actor of great power, who was born in London of French parents, and after varying success on the Paris stage, came to London.

varying success on the Paris stage, came to Loadon, where first at the Princess. Theatre, and afterwards at the Lyceum, he played in a series of melodramis, which placed him in the front rank of actors. Went to the United States in 1870 and died there.

Fackenham, John de (15:8-15/8), last mittred abbot who sat in the House of Peers, a tolerant Romanist dignitary who was Queen Mary's confessor, and displeased her by pla ading for the Protestants.

**Enelon (1/551-7375), Archivshop of Cambray and a writer of great distinction. His *Telemachus* is a French classic.

**Erdinand W. of Castile (1452-1516), who married Isabella of Spain, and with her reigned over that country during a period of great events. He saw the Moors expelled from Sjain, caupped Columbus for the discoveries which led to Spain's was colonial possessions, and instituted the Inquisition.

for the discoveries which led to Spain's vast colonial possessions, and instituted the Inquisition.

Ferguson. James (1710-1776), a Banishire man of great ability and inventiveness, who, from being a shepherd-boy. educated himself in astronomy, mathematics, and portrait painting, so that he was able to support his parents, and became eminent as a scientific lecturer. He was made a Fellow of the Roual Society and land a proprior contract do him by Royal Society, and had a pension granted to him by

Royal Society, and nat a pension granted with a Government, the Government, Fargusson, Sir William (1808-1877). President of the Royal College of Surgery at King's College (1840-1870). Was not only enment as a surgeon but as a writer on surgery and an inventor of surgical appliances. Farrar, Francisco (1850-1909), who was executed as the chief author of the Barcelona insurrection of strong wom much acceptance for his system of

as the chief alterior of the Parcelona insurrection or 1909, won much acceptance for his system of "Scientific and Rationalist education," and was responsible with Haeckel for the International League which extended the system to other lands,

League which extended the system to other lands. By many he is regarded as a martyr.

Ferrara, Earl (1720-1760), condemned by the House of Lords for killing his steward, and hanged.

Ferry, Jules (1823-1893), journalist and statesman of France, in 1869 was elected one of the Deputies for Paris. He became, after the fall of Napoleon III., one of the most vigorous members of the National Defence Committee; served in several prominent offices in later years, being Minister of Education in 1888 and Minister of Finance in 1890.

Fichte, Johann G. (1762-1814); was Professor of

Philosophy, first at Jena and then at Erlangen, and later Rector of the University of Berlin. His works had great influence upon the thought of his time, the idealist philosophy he taught being marked by much purity of conception. His cluef works are The Destination of Man and The Way to the Blessed Life Field. Cyrus W. (1810-1800), an American who took a prominent part in the development of submarine cables. In 1866 he connected the United. States with Newfoundland by cable, subsequently organising the company which established the first successful Atlantic cable in 1866.

successful Atlantic cable in 1866.

Fielding, Henry (1797-1754), the celebrated Eng'1sh novelist, author of Tom Jones, Joseph Andrews, and Amelia, as well as many plays.

Fife, Duke of (1849-1912), husband of the Princess Royal (eldest danglither of King Edward VII). Was vice-thauman of the Chartered Company of South Africa, but retired after the Jameson Raud.

Fildes, Bir Luke, R.A. (b. 1844), first attracted: notice as a black and white artist, and illustrate! Dickens's Eduna 1970od. Exhibited at the Royal Academy in 1892, and at successive exhibitories was

Academy in 1872, and at successive exhibitions was represented by many important works, including "The Casal Ward," The Village Wedding," and "The Doctor." Elected R.A. in 1887, and knighted in 1906. Painted the State portraits of the King

and Queen.

Finlay. Rt. Hon. Sir Robert B. (b. 134-),
entered Parliament in 1885; from 1895 to 1990 with
Solicitor-General, and succerded Sir R. Wenster
(Lord Alverstone) as Attorney-General in Sov.
1900. Defeated in 1906, but re-elected in 1910. Mad
R.C. in 1906.

Finsen, Prof. Niels Ryberg (1861-1904), a
Danish medical scientist whose light cure for luprobtained the approval of Queen Alexandra and the
encouragement of many philanthropasts. He established an institute for the practice of his system
at Copenhayen, and in 1850 received an appointment. at Copenhagen, and in 1890 received an appointment

as anatomical prosector.

Firdaust, Abul K. M. (941-1020), was the great epic poet of Persia. His "Book of Kings" contains

epic poet of Persia. His "Book of Kings" contains, 60,000 verses, and professes to relate the history of Pensia from the beginning of things.

Firth, Mark (1819-1880), a great Sheffield steel maker, who was at the head of the Nortolk Ordnance Works, and was celebrated for his benefactions, including the Firth College and a public park.

Fisher, Rs. Hon. Andrew (b. 1820) Premier of Australia 1986, and expressions to be the content of the profession of the content of t

Fisher, Rt. Hon. Andrew (b. 1852), Premier of Australa 1968—9, and again from 1970 to June, 1973, when heresigned, resuming the post in Sept. 1914; Leader of the Labour Party. Is a native of Kiliurnock.
Fisher of Kiliverstone, Admiral Lord (b. 1841)
Has served most posts of honour in connection with the Navy and naval administration, and was appointed Senior Naval Lord of the Admirally in 1994. First Sea Lord 1994, in Created Peer in 1994. Was on Sea Lord 1904-10. Created Peer in 1990. Was on the Special Navil Committee of 1912. In 1914 resumed position of First Sea Lord on resignation of

Prince Louis of Battenberg Resigned May, 1915
Fitzmaurice, Lord (b. 1846), was Under Secretary
for Foreign Affairs, an office which he accepted for for Foreign Atlars, an office which he accepted for a second time (with his pectrage) from Sir H Campbell-Bannerman, from 1305 to 1008, when he was appointed Chancellor of the Duchy of Lancoster, but resigned in 1902. Is brother to Lord Landowne, Fizzroy, Robert, Vice-Admiral (1805-1805) Atlanned celebrity as a meteorologist, and in 1854 was made superintendent of the Meteorological Department and was the introducer of the sustem of

made superintendent of the Meteorological Department, and was the introducer of the system of storm warmings which has developed into our present more elaborate weather forecasts.

Flamsteed, John (1646-1710) was the first English Astronomer Royal, and a close friend of Sir Isaac Newton, whom he aided in many of his experiments.

Flaubert, Gustawe (1821-1880), the French novellst who won distinction by several notable books, among them Madam Bovary Salammbé, and other works of genus.

and otherwork of genus.

Fiaxman, John (1755-1826), a great English sculptor who was born at York, and at twenty was employed as Modeller by Wedgwood; showing great ability as a sculptor he went to Italy, and studied

there seven years. On his return was made an R.A. and Professor of Sculpture, and thenceforward his career was one of unqualified success.

career was one of inquanined success.

Pletcher, John (1879-7605), the famous collaborator with Beaumont in numerous plays which were popular in their day, and take high position in the dramatic literature of the country, containing sterling poetic beauties allied with much vulgarity.

Pletcher, Lexarus, F.R.S. (b. 1854), Keeper of Minerals in the British Museum since 1880 and an authority of the plant of the country of the plant of the

authority on mineralogical science generally and

meteories in particular.

Finders, Esthew (1774-1814), an explorer and navigator, who made important discoveries in and around Australia. He sailed through the Strait which he christened Bass Strait in honour of the

which he christened Bass Strait in honour of the surpeon accompanying his expedition, and wasethe risrs to ascertain that Tannania was an island.

**Plotow Frederick von (1852-1883), the well-known composer of opera whose "Stradella" and "Martha" enjoyed much popularity, the last-named still remaining a favourite.

**Foley John Henry (1818-1874), born in Dublin, west to London while young; studied at the Royal Academy, and attained high rank as a sculptor, becoming R.A. in 1884. His statues of Humpden and Selden in the Houses of Parlament, that of the Prince Consort on the Albert Memoral, with the equestrain statues of Sir James Outram and Lord Hardings, being among the best examples of his work. He was buried in St. Paul's.

Foote. Barmuel (1720-177), a clever actor and runner, who in his day did much to keep London in good humon. He was the author of numerous conedes, including the "Mayor of Caratt."

*Forbes-Robertson, Sir Johnston (h. 1853).

concures, inclinding the "Mayor of Cartatt,"
Forbeas-Robertson, Sir Johnston (b. 1853),
actor-manager, trained as an artist, but studied under
Phelps, and went on the stage, and became a leading
obayer with the Bancroft and Hare companies, and then successfully entered upon management on his own account. Gave a farewell season at Drury Lane .1 1913. wife The clever actress, Miss Gutrade Elhott,

Ford, John (1586-1640), an English dramatist of considerable power, who wrote sixteen plays, of which "Perkin Warbeck" was perhaps the greatest.

which "Ferkin Warbeck" was perhaps the greatest.

Forestier-Walker, General Sir F. W. E.
(1844-1910), a soldher who had a brillant army
record in the Kaffr and Zulu Wars, with the
Bechnanaland Expedition, in Egypt, at home in
command of the Western District, in South Africa as
i rout. General, and afterwards Commander-in-Chief
and Converge at Chiefetes.

i teut.-General, and afterwards Commander-in-Chief and Governor at Ghraitar.

Forstor. John (1812-1876), an able and fascinating writer, who loomed large in the literature of the mid-victorian period. He will be best remembered by his Life of Charles Dickens. Life of Oliver Goldsmith, and Hingraphly of Six 7 John Hilds.

Forstor, Rt. Hon. W. E. (1818-1886), entered Farhament as member for Bradford in 1857, and immediately made his mark. Was Under-Secretary for the Colonies 1855-1866, Vice-President of the Jouncil from 1880-1874 under Mr. Gladstone, and Chief Secretary for Ireland from 1880-1882. The measures with which his name will remain associated are the Ballot Act of 1872 and the Elementary Eduare the Ballot Act of 1872 and the Elementary Eduare the Ballot Act of 1872 and the Elementary Eduare the Ballot Act of 1872 and the Elementary Eduare the Ballot Act of 1872 and the Elementary Eduare the Ballot Act of 1872 and the Elementary Eduare the Ballot Act of 1872 and the Elementary Eduarents. are the Ballot Act of 1872 and the Elementary Edu-

are the Ballot Act of 1872 and the Elementary Education Act of 1870.

Forkuny, M. J. (1828-1874), a celebrated Spanish painter, who between 1860 and 1870 produced a number of pictures which for beauty of execution and brilliance of colour take high rank. His "Choosing a Model," "The Snake Charmers," and "Moors playing with the Vulture" show great technical resource.

Focast, Francasco, Doge of Venice from 1425 to 1457. A great historical character, who governed Venice with a firm hand and increased her renown. The story of his condemnation of his son, and his

Venice with a firm hand and increased her renown. The story of his condemnation of his son, and his stern refusal to exercise the prerogative of mercy in his favour, forms the subject of Byton's trugedy." The Two Foscari." He was driven to abdication by his rival Giacopo, and died very shortly afterwards. Foscolo, Ugo (1798-1827), a well-known Italian author, who for his political opinions had to leave the

University of Pavia, and went to London and there employed his time in literary work. He produced many admirable translations, but ultimately died in poverty at Turnham Green. His remains were taken to Florence in 1871, and buried in the Church of Santa Croce with great honour.

Poster, John 11770-1843), was an eminent essayist and lecturer; his Evils of Popular Ignorance was a charming book, and is still read.

Fourier, François Chas. (1772-1837), the famous French Socialist, who propounded a system of associative enterprise for giving everyone ample associative enterprise for giving divisive. He made some attempts to carry out his Utopian ideas, but they did not succeed. He is best known by his Traiti de l'Association Domestique Agricole.

Fowler, Bir John (1817-1868), an eminent civil engeneer, son of a Sheffield land surveyor. He figured prominently in railway engineering during the forties and infites of last century, and engaged in many large public undertakings. With Sur Benjamin the forties and nities of last century, and engages in many large public undertakings. With Sir Benjamin Baker he was the engineer of the Forth Bridge, and was engineer of the Metropolitan Rallway.

Fox, Charles James (1/49-1805), was the second on of the first Lord Holland. Entered Parlament at nucteen, and became a Lord of the Admirally in the control of the Admirally in the co

the following year. His opposition to the Royal Marriage Bill crew down upon him the displeasure of George III. Through the whole of Pitt's Premier ship he was that statesman's most formulable opponent. He favoured American Independence; opposed the war with France; was one of the impeachers of Warren Hastings; denounced the Slave Trade and advocated Parliamentary Reform, After the death of Pitt in 1800 he was made Foreign Secretic death of Pitt in 1 tary, but died a few months later, and was buried in Westminster Appey.

Fox, George (1624-1691), was the founder of the Society of Friends. His preaching often gained him trouble and imprisonment, but his religious zeal was

trouble and impronument, but his religious zeal was beyond the power of niortals to suppress.

Foxe, John (1537-1587), the English martyrologist, whose "Acts and Monuments" [look of Martyrri) is one of the best known books in the language. Born at Boston in Lincolnshire, he later became a clergyman of the Aughean Church and died in London.

man of the Anglican Church and died in London.

Frampton, Sir George, R. A., an crunent sculptor who is represented by munerous notable works in dillerant parts of the empire, including the statues of Queen Victoria and Queen Mary for Calcutta.

France, Anatole T. (b. Parts, 1844), one of Frances notable writers of inction, showing a great mastery of character portrayal and sature. Most of his works are translated mot English. Visited England in 1973.

Francis I. (1491-1547) was King of France from 1515 to his death. He was involved in many wars, and was taken prisoner by Charles V. of Germany at the Battle of Pavia. After friendly relations had been established between I-rancis and Henry VIII., the two met on the "Field of the Cloth of Gold."

Francis Of Assisi, St. (182-1220), founded the

Francis of Assisi, St. (182-1226), founded the Franciscan Order of Monks and devoted himself to a holy life. He is a sunt of the Roman Church, having been canonised by Pope Gregory IX., and is

commemorated on October 4th.

Francis, Sir Philip (1740 1818), an English statesman of repute who served seven years as a member of the governing council of Bengal. His last years

of the governing council of Bengal. His last years were spent in retriement, during which period it is believed the wrote the famous Letters of Jinnus.

Franklin, Benjamin (1796 1790), the famous American statesman and philosopher, who after serving an apprenticeship as a printer attracted public attention by publishing his Poor Richara's Almanac. He then began a series of scientific experiments, inventing amongst other things the lightning conductor. He was for ten years a member of the General Assembly; then lived in Britain as agent for his State for eighteen years; returning to America he took part in framing the Constitution of the United States.

Franklin, Sir John (1796-1847), the famous Arctic

Franklin, Sir John (1786-1847), the famous Arctic explorer, whose final expedition in command of the Errbus and Terror ended disastrously, all the mem

bers of the expedition perishing. Many attempts were made to discover Franklin, but without obtaining anything save very fragmentary knowledge concerning his fate. He was born at Spilshy.

Fraderick II. (1712-1786), usually called Frederick the Great, was King of Prussia from 1740 to the time the Great, was King of Prissia from 1740 to the time of his death, and by his masterful government and military successes greatly increased the power of his country. He was a scholarly potentate, and his published works extend to thirty volumes.

Freeman, Professor E. A. 1823-1892), Professor of Modern History at Oxford; devoted a great part

of his life to the study of early English history, and his History of the Norman Conquest is one of the most remarkable contributions to our annals.

Fremont, Colonel John Charles (1813-1890)
was an indefatigable explorer of the Far West, and especially of the Rocky Mountain regions, before railways existed out there, and was of great service in planning out suitable routes.

French, General. Sir J. D. P. (b. 1852). Fintered the Navy as a youth, afterwards passed into the Army. and in the Egyptian campaign of 1884-1885 made his mark as a cavalry officer, served in the South African War with splendid success, and later was appointed to the Chief Command at Aldershot. Inspector-General of the Forces, 1907-11 Chief of Imperial Staff from 1911 to 1914, when he resigned When war broke out in 1914 was appointed Commander-in-Chief of the Birtish Forces.

Frere, Sir Bartle (1815 1884). Ind good service in India from 1854 to 18%, filling various important office, including that of the Governor of Bomboy, and in 1875 accompanied the thin Prince of Wales to Egypt and India after which he was made barroner. In 1878 he want out to Cape Town as High Commissioner, but, owing to insinder standings at home, the Zulu War same about Trouble with the Franss, if followed, when sir Bartle went out, but met with little success. He died in May, 1894, and was

buried in 5t. Phil's
Frith, W. P., RA (1819-1910), early showed capacity for drawing. Went to London in 1835, capacity for drawing Went to London in 1835, began exhibiting in 1846, and for the next thirty years of more was one of the most prominent exhibitor. He wis made R A in 1833 Antong his large pictures, which were mucrosely popular when produced, may be mentioned the "Derly Day" and the "Rulway Station". Published two brightenics are made to the production of the "Derly Day" and the "Rulway Station". Published two Day " and the " Railway Station " Publishinghly entertaining books of Remainingues.

Frobisher, Sir Martin (1515 1511), was the eithest of British navicators to attempt to find the North-West passage to India, and his name commemorated in broasher's smal, to the south
of Bathu Land — Lor his services in connection with the debat of the Spanish Amada he was

knighted

Froebal, Friedrich Wilhelm (178, 187.), was the founder of the Kindergarten system of echeca-tion, the chect of which is "to give clokic enemployment in harmony with their nature, to strengthen their bodies, to exercise their 5 uses, and lead their up to the original ground of all life, to the idea of unity with themselve,

Froissart, Jean (1,37-1410), a celebrated Fron h writer who yield I agli d in 1 S offand, and was the author of the a mount of every , which tell us so

much of the achievement of the batons of old Froude, James Anthony (838 2893), the celebrated liketima, and the grapher of Cathle. Institutory of Engand than the bath of Hicker to the Defeat of the Armada is a bulliont work, and a permanent addition to hierattic. His I regish is Ireland in the Engineenth Commer, and his Oceanic together with his Shore Studies on Great Subjects, are all notable book

Fry, G. B. (b. 1872), a well known cricketer and athlete, editor, novelist, and writer on athletis. Educated at Oxford (madder of Feet Mercagnic, and

a capraid of the Sussey County Cricket Cide.

Fry. Elizabeth (1780-1845), a Nowich lady will devoted much of her hie to the promotion of prison reform, and achieved considerable reputation as a preacher. She belonged to the Society of Friends

and was married to a London merchant, Joseph Fry.

Pry. He. Hon. Sir Edward, G.C.B. (b. 1827), now retired, was a Judge in the Chancery Division of the High Court from 1877-1883, and Lord Justice of the High Court from 1877-1883, and Lord Justice of Appeal from 1883-1892. Attended the Hague Conference of 5007 as British representative, and is a member of the Permahent Court of Arbitration.

Fullar, Thormas (1608-1661), the author of Worthier of England and a Church History of Britain, two well-known and valuable works. He was Chaplain to both Charles I. and Charles II.

Fulton, Robert (1765-1815), an inventive American engineer who dividinguished hinself by experiments in the application of stem to navigation, and finally.

in the application of steam to navigation, and finally, in 1807, launched the Clermont on the Hudson, which

in 1807, launchest the Cermon on the Fausson, which gractically solved the problem,
Furness, Lovel (1852-1912), formerly Sir Christopher Furness, a weil-known simpbuilder and shipowner, and for many years an active Liberal M.P.
Furnivall, Frederick James (1825-1910), a hielong student of and writer upon literature, and founder of the Early English Text, Chaucer, Ballad Mem. (2014) never the Bunaung and the Shallow New Shakspere, the Browning, and the Shelley societies. Was a member of the British Academy.

Gainsborough, Thomas (1727 1788), a celebrated English lands are and portrait painter, whose works are remarkable for their prace and refinement, especially his portrait. It was Calinborough's "Duche's of Devoishire" which disappeared symptercouly from the room in which it was being mysteriously from the room in which it was being exhibited in 1870, and its recovery in America some years later was not less neysterious.

Galen, Claudius (1.30 200 A D), a famons physician.

horn at Pergamum, practised with great success in Rome, being medical adviser to the Emperor, Marcus Aurelius, and his colleapine, Lucius Verus

Marcus Aireinis, and his colleague, Lucius verus Gallieo (b. at Phas 1954, d. 1944), the great Italian astronomer, who while still a youth discovered the law of pendalum withatton by sceing a lamp swinging from the root of the cathedral in Pisa. He also constructed the first telescope, with which he made numerous astronomical studies.

Gell, Franz Joseph (17,8-18:8), the Germ

Gallienus, Publius Licinius, was Robert Property from 250 to 268, but exercised has power with cruelty and revolting excess, and was at last slam by his own soldiers.

Gallio, Roman proconsol in Greece at the time of St. Paul's visit to Counth, and held aloof from the dissensions which the preachings or the apostic

dissensions when the presenting of the created an one the people.

Galaworthy, John (b. 1807), a novelist and dramates of torce, dailery, and ort makey, whose works have attracted most attention and discussion.

works have attracted note attention and discussion.

Calt. John 1770 173), an admited Scottish november the statement of the Larish.

Gallon, Sir Francis (1882 1011), an enough seatest and traciller, whose studies at heredit or transmission have been of great closse, and who expositions in regard to the narkings of higher tracillers to the markings of higher tracillers. resulted in the adopains of what is known as finger print aleithfoliands in police cases. Originated the study of the genies," and bequested despose to the London University for the codemical of a professorship of Lugenius In 1936 publishe! Memors of Me Life.

Galvani, Luigi (1737-1768), a distinguished Italia. scientist, whose experiments during a course of lecture, on anatomy at Bologna, decovered the rea-ciple of annual electricity, hence the term Calvanian.

Gama. Vanco da 1400 1524, the adventurous Par-tinguese navigator, who discovered the sea route to india in 1306, by idolong the Cape of too al Rope Gamaliol. Patriarch of the Jewish community in Palestine, and President He was grandson of Gamabel the elder, at whose

feet sat the Apostle Paul Cambetta, Leon M. (1838-1821) a French state-

man who came into great prominence during the Siege of Parisun 1870-71. He became President of the Chamber in 1879, and in 1881 Minister of Foreign Affairs and Premier. He was at the height of his popularity when an accident caused ins death.

ins death.

Gapon, Father (b. 1870), the Russian priest who led the strikers in their attempt to obtain an interview with the Czar, in January, 1905. Escaped to France and England after the massacre, but later was murdered for betraying the cause.

Garcia, Manuel (1805-1900), a Spanish musician and singing-master, brother of Mines, Malibran and Narder, and there of many coldusties from Lange.

Viardot, and tutor of many celebrities from Jenny Lind downwards. He published books on singing.

and invented the laryngoscope.

Garcia y Iniguez. Calixto (1836-1898), Cultum insurgent general, planned the rebellion of 1868; captured and imprisoned in Spain, 1873; escaped to America, 1895; co-operated with the United States

forces in the capture of Santiago, 1898

Gardiner, Alfred G., editor of the Daily News
since 1902. Author of "Prophets, Priests and Kings,"
and "Pillars of Society"; an incisive writer of haracter sketch

Cardiner, Bishop (1483-1555), was Bishop of Winchester in 1531, and Lord Chancellor under Queen
He was a bitter opponent of the Reformation. He was a bitter opponent of Reformation. He was buried at Winchester. Cardiner. Samuel Rawson (1829-1902).

English historian, whose works deal mainly with the period from the accession of Janies I, to the end of the Commonwealth. He published seventeen columns in all, and his work shows fine sympathy, clear judgment, and a sincere love of truth.

Garfield, James A. (1831-1881), was President of the United States from March, 1881, to September of hen he died from the effects of a shot received in the preceding July from a man named Guiteau. He had had a distinguished career as

a Republican politician. Rose from a very humble position, and was a man of sterling qualities. Garibaldi, Giuseppe (1807-1882), the famous Italian

soldier and patriot. In 1834 he was condenned to death for being concerned in a plot to seize a Govern-ment vessel, but escaped to South America, and for some years was engaged in various condicts for liberty in that horbed of revolution. Returning to Italy in 1848, he comed the Roman Republican movement, but was ultraately compelled to fly for his lite, and emigrated to New York. In 1254 he returned to Italy, and on the outpreak of war in 1859 had a command given to him, and scored several victores against the Austrans. The next year found him at the head of a great volunteer army, intent upon liberating Italy. This tremendous task he successions.

the nead of a great volunteer army, ment upon liberating Italy. This tremendous task hie successfully carried through, earning the admiration of the world for his generalship and patrotism.

Garriok, David (1717 1779), the leading tragic actor of his time and a highly successful manager. Was buried in Westminster Abbey.

Garrison, William Lloyd (1805-1879), an eminent anti-slavery leader of America, who by his speeches and writings did much to further the cause Garrin, J. L. (b. 1858), editor of the Pall Mall Gazette and the Observer, and formerly editor of The Outlook. A trenchant writer and keen supporter of the Conservative cause.

Gasoline, Sir William (1350-1412), the judge of Edward IV.'s days who incurred the displeasure of that monarch by declining to carry out his command to sentence to death Archbishop Scrogg and Earl Mowbray, accused of fomenting tebellook?

Gaskell, Mers. E. C. (1810-1869), an English novelist of acknowledged power, whose Mary Barton, Ruth, Cranford, and other stories—dealing largely with Lancashire life—achieved great popularity. Her Life of Charlotte Bronte was also a remarkable book. hook.

asquet, Abbot (b. 1846), a learned Benedictine ecclesiastic, whose knowledge of the history of monastic life is profound, and who has written extensively thereament. He is at the head of his order

Gassandi, Pierre (1993-1965), a distinguished French philosopher and mathematician. Best known by his epicurean treaties and biographies of astronomers. Gatling, Richard Jordan, an American invention (b.1818), whomen sted the Garling quickfiring machine (D.1818), who have the caring quickining indenti-gin, and also numerous machines for saving labour in agricultural operations.

Gauss, Karl Friedrich (1777-1855), a famous German mathematician and astronomer who was

appointed professor at Göttingen in 1807, which posi-tion, with that of Director of the Observatory, held for the long period of forty-eligit years.

Gautier, Theophile (1871-1872), was an eminent French critic and novelist who at one time filled

French Critic and novelst who at one time more the position of secretary to Balzac. His romance, Mademosselle de Maupin, caused a great sensation at the time of its sublication, and though of an extremely crotic tendency, possesses building literary micrits. He was a poet of considerable power and

his writings were very numerous and varied.

Gaveston, Piers, the haughty Gaveon favourite of Edward II, of England; was Viceroy in Ireland; banished by Edward I, at the instance of the Barons m 1307, but returned on Edward Il,'s accession, and was created Earl of Cornwill. Acted as Regent of England during the King's absence, but again so irritated the Barons as to provoke their rising, in the

course of which he was captured and executed near Warwick in 1912.

Gay, John (1683-1732), the English poet who penned
"The Bergar's Chera" and the well-known collection
of poets fables. He was a writer of great wit makency, and much patronised by Society. His final
years were spent in the companionship of the Duke and Duchess of Queensberry, and he was buried in Westminster Abbey.

Gay-Lussac, J. L. (1788-1830), a great French

chemist, whose experiments in connection with gases and vapours were of much scientific importance. He

was made Superintendent of the Frinch Covernment guipowder factories, and Chief Assayer of the Mint. Geber, the famous Araban alchemist, lived in the 8th century, and is believed to have made numerous discoveries valuable to chemical science. Not much is known of his life, and the vagueness of many of his acknowledged writings gave rise to the term

Ged, William (1690-1749), was one of the inventors of the process of stereotyping. He was a goldsmith and a native of Edinburgh, and lived for a time in York. His most important invention dates from 1725.

Goddes, Jenny, an, Admburgh vegetable-stall keeper who won tame by one characterists; middle mit 1937. After Laud's introduction of a new service book into Socioth churches, Jenny was present at St. Glies' Church, and as soon, as the Dean began to read out the collect from the new book she hurled her stool at his head. Serious riots followed. Geikle, Sir Archibald (b. 1835), has been one of

the most noted geologists of our time, and has tilled many important appointments and written immerous many important appointments and written immerous works on geology, many of which may be regarded as standard books. Was made Secretary to the Royal Society in 1993, and presided at the centenary celebration of the Geological Society in 1997. President of the Royal Society 1998-13 Gelkie, Professor James (b. 1839), brother of the foregoing, and his successor in the Chair of Geology at Edinburgh University in 1882. His work on The Great Lee Age is a notable one.

Gelon was the name of the Sicilian tyrant who, about

Geion was the name of the sichian tyrant who, about 485 B.C., conquered Syracuse, five years late id feating the Carthaginams at Himera.
Geneview of Brabant, St., wife of the Palatine Siegfried; fourshed in the middle of the 8th century, and the heroine of a romantic nucleival legend which alleges her to have lived in a cave for six years. in the forest of the Ardennes, suffering under an unjust aspersion.

Ganevieve, 85., born at Nanterre, near Paris, in the 5th century, and devoted her life to conventual work. She is the patron saint of Paris, and is reputed to have saved the city from Attila by her prayers in 45. Genneric, Vandal King of Spain in 429, after being

driven into Africa by the Visigoths, subdued the Roman provinces of North Africa, and afterwards crossed to Italy and sacked and pillaged Rome, doing irreparable damage to public monuments and sculptures. Hence the term "Vandalism."

Geoffrey of Anjou (1138-1170), founder of the Angevin dynasty of England, was son-in-law of Henry I. and father of Henry II., the first Angevin or Plantaguet kiny.

or Plantagenet king.

or Plantagenet king.

Geoffrey of Monmouth (1100-1154) was the author of the famous Old English chronicle which bears his name. He was born at Monmouth, and became Bishop of St. Asuph in 1152. His Chronicon is a compilation from older authors, and is notable for having contained, the stories of King Arthur, King

having contained the authorized the Lear, and Cyndeline, George I. (100-1797) was King of Great Britain from 1714 to his death, ascending the throne as of lames I. His reign saw of lames I. His reign saw

from 1714 to his death, ascending the throne as direct descendant of James I. His regn saw many memorable events, including the Jacobite Rebellion, but the monarch himself, who could not speak English, cut no very digmified figure.

Goorge II. (1693-1760), son of the last-named, was king of Great Britain from 1727 to 1760. His reign covered a prosperous period in spite of wars and rebellions, and saw the Empire extended in India and North America, but the King was personally a man of limited power, and active vener.

and North America, but the King was personally a man of limited power and achievement.

George III. (1738-1820), was the grandson of George III., and reigned from 1700 to 1820. He was a popular monarch for the most part, possessing all the domestic virtues, and of simple tisses. The war with America lasted from 1775 to 1782, when the American Istates gained their Independence, and from 1793 to 1815 the war with Prance was kept up with but little interruption. On the other hand, the Empire in India was strentlened and enlarged.

Empire in India was strengthened and enlarged, and the power of Great Britain on land and sea was splendidly shown.

sogge IV. (1762-1830) reugned from 1820 to his death, but filled the position of Prince Regent for some years previously. The King's personal character, in spite of the fact that he was called "The First Gentleman in Europe," showed such a want of dignity, and such an abandonment to

want of dignity, and such an abundonment to heentiousness and frivolity, that no became very unpopular with the people.

Georgie V., his present Majesty (b. 1265), is the second son of Edward VII. and Queen Alexandra. Entered the Navy as cadet in 1877, and spent two years on the training shan Enterval Later, in these Entered the Navy as cader in 1877, and spent two years on the training ship librianina, later hacking a three years' voyage round the world on the Racchante.

On the death of the Duke of Chreine in 1890 he became heir to the throne. Was married to Princes Mary of Teck in 1894. On the accession of his father he became Duke of Cornwall and later Princes of Wales. In 1901 made the tour of the Colonies with the Princes, in 1004 they visited India. Succeeded to the throne in May, 1912, and was crowned with great ceremonal in 1014, his Majesty and Queen Mary visiting Indian in Decomber of that were when visiting India in December of that year, when at a Durbai at Delhi another splendid ceremony of crowning was gone through. Visited Berlin in 1913, with Queen Mary, for the marriage of Princess Victoria Luise, and visited Party in April, 1914. After war broke out the King entered heart and soul into the country's cause, and in furthering the inflittry, naval, and charitable needs of the time displayed the utmost energy and solicitude. He also visited headquarters in France, and inspected the Fleet on active service.

in France, and inspected the Fleet on active service. George, Henry (1839-1897), the American political economist who attained a great reputation by his Progress and Foverty, published in 1879. He advocated public ownership of land, with retention of the present landlord system; but all land to be taxed upon its rent, with the idea of ultimately bringing about the abolition of all other taxes. Nothing made by man was to bedaxed at all. George, Lloyd. (See Lloyd George). George, Saint, the tutckry sant of Ingland, adopted by Edward III. He is believed to have been a native of Cappadocia and a vigorous champion of Christianity in the days of Diocletan, and to have suffered martyrdom at Nicomedia, 303 A.D. The dragon

which he is said to have slain symbolises the powers of evil, over which he is credited with having triumpfied. He is commemorated on April 23. Germanicus, Gensar (15 B.C.-19 A.D.), was son of Nero, commanded the army of the Rhine with great success, and on the death of Augustus would have been proclaimed the successor, but declined the honour. He died near Fiphesus, under strong suspicion of having been poissued.

honour. He died near Fiphesus, under strong suspicion of having been poisoned.

Gérôme, Jean Léon (1824-1904), a famous French
painter, whose works covered a great range of subjects, classical, historical, and popular. Among his
best-known paintings are "The Duct after the Bali,"
The Slave Market, "and "The Age of Augustus."

Gerwase of Tilbury was an English historical
writer who flourished in the 18th century, and for his
scholarship was appointed Marshal of Arles by Oho

W. for whom he write the work by which has been

IV., for whom he wrote the work by which he is best known, Otta Imferialia.

Gervinus, Georg G. (1805-1871), was a noted German historian and professor, who wrote a History of German Literature, A History of the Nineteenth Century, and other works of value.

Gesner, Konrad von (1516 1565), a Scholarly Swiss maturalist, and the father of the science of 200logy, His most famous works were his Historia Animalium, a monumental production, and his

Animation, a monumental production, and his bibliothesa Universatis, a catalogue of all the writers then extant in Grock, Latin, and Hobrew.

Gibb, Sir George Stegmann (b. 1859), Chairman of the Road Board and a well-kn win expert in railway, electric, and marine affairs. Fornier, clairman of the Speyer Co, which controlled the District, Metropontan, and Underground Electric Railways. Was on the Royal Commission on London Traffic.

Traffic.

Gibbon. Edward (1737-1794), the celebrated historian of the Decline and Fall of the Roman Emptre. Represented Liskeard in Parliament for eight years. His great work is an enduring classic.

Gibbons, Grinling (1648-1720), an emment sculptor and wood-carver, who came from Holland to England, and was patronised by Charles II.

Gibbons, Orlando (1533 962), a novel English compasser of Church music, who was organise of the compasser of Church music, who was organised of the compasser of Church music, who was organised of the compasser of Church music.

composer of Church music, who was organist of t' Chapel Royal

Chann. John (1799 1995), a prominent English scoppor who studied under Canova and Thorwaldsen, and two it the greater part of his life at Rome. His portruit times were highly successful, and he also produced many important classical and poetical studies, including "The Tinted Venus"

Gibson, Thomas Milner (1807-1884), was one of the prominent leaders of the Anti-Corn Law movement of the Board of

ment, and served as President of the Board of Trade under Lord Palmerston. Giffen, Sir Robert (1837-1010), a prominent political economist and statistican who was first a

pointical economist and strustician wino was first a solicitor's clerk, then a journalist, and later for many years at the head of the Statistical Departme of the Beard of Trade. Retured in 1897.

Gilbert, Alfred, R.A. (b. 1851), one of our leading sculptors, and a clever designer of gold and silver objects. Among his best-known sculptures are Perseus arming learns, the Shaftesbury Memorial, and the Duke of Clarence Memorial at Windsor.

Gitbert, Sir Humphrey (1539-1583), was knighted by Queen Ehzabeth for his bravery in Ireland, and later on made voyages of discovery, and added Newfoundland to the British possessions. He was the step-brother of Sir Walter Raleigh, and was drowned eventually oil the Azores, his inemorable last words being, "We are as near to Heaven by sea as on land."

Denig, "We are a near to Heaven by sea so in and.

Gilbart, Sir John (1871-1897), a brilliant artist, who
was successful alike with pencil, water colour ar
oils, and one of the most problic artists of his time.
His black and white work was productions in quantity
and excellent in quality. His illustrations to
Staunton's edition of Shakespeare are remarkable
for their picturesqueness and dramatic power. He
was kinghted in 1871, and made R.A. in 1876.

Gilbart, Sir William Schwark (1866-2017); in

Gilbert, Sir William Schwank (1836-1911); in 1801 began to contribute "Eab Ballads" to Fun, and a few years later commenced to write for the stage.

producing a number of light burlesques of the pattern then in vogue. He struck out a more original veln with certain fairy plays later, and also wrote a number of strongly conceived dramas and comedies. About this time also he began to collaborate with the late Six Arthus Sulling. About this time also he began to collaborate with the hate Sir Arthur Sullivan, starting with such slight essays as "Trail by Jury," and gradually extending to the famous Savoy series of operas, which for many years provided Lingland and America with some of their brighnest and best entertainments. "H.M.S. Pmafore," "Pattence," "Jolanthe." "The Mikado," and the rest are unique, and almost beyond praise.

for many years.

Giles, St., the hermit saint of the 7th century— believed to have been a Greek who emigrated to believed to have been a Greek who emigrated to France, and met with considerable honour in Great Britain. At Edinburgh is a castle dedicated to him; in Oxford, Cambridge and London churches bear his name; while throughout the country one may find some hundred others consecrated to this patron of all such as are in sickness and sorrow. So far back as the 12th century, Matilda, Queen of Henry I., founded that hospital in London which gave birth to the important parish of St. Glist-in-the-Fields.

Gilliany, 3 amas (1957-383), the enument caricaturist of the time of George III., who produced upwards of a thousand political cartoons, some of which were highly popular, and aroused much sensation.

Shotto di Bondone (1276-1305), the famous Italian

Giotto di Bondone (1276-1336), the famous Italian painter, sculptor, and architect, whose beautiful tower at Florence and his many works of art in various churches there, as well as the churches them-

vanous churches there, as well as the churches them-selves, form splendid monuments to his memory.

Giraldus Cambransis (1147-1222), a distinguished ecclesiastic whose Typographia Hibernia, Hiner-arium Cambran, and other works contain much valuable historical matter.

Girardin, Emile de (1806-1881), the brilliant French journalist and politician, who exercised great influence upon public oplinion, both as a Republican in 1848 and as a supporter of Napoleon III.

Girouard, Sir E. P. G., K.C.M.G., High Commis-sioner and Commander-in-Chief of the East Africa Protectorate from 1900 to 1972, when he resigned.

Protectorate from 1909 to 1912, when he resigned. Was for six year, Director of Soudan Railways, and after the Boer War became Railway Commissioner for the Transvaal.

for the Transval.

Giullo Romano (1492-1546) was a pupil of Raphael, and himself a distinguished painter and architect. He bullt numerous palaces, and achieved important engineering works. One of his noted paintings, "The Infancy of Jupiter," is in our National Gallery.

Gladstone, Viscount, of Hawarden (b. 1854), youngest son of the Liberal Prime Minister; entered Parhament as member for Leeds in 1869, and became his father's private secretary. Made a Lord of the Treasury, 1881; Financial Secretary at the War Office, 1886; Under-Secretary, Home Office, 1892; First Commissioner of Works, 1894; and Home Secretary in 1905-10. In 1910 appointed Gov.-fren. of South

missioner of Works, 1894; and Hrune Secretary in 1005-to. In 1906 appointed Gov-Gen. of South Africa and raised to the Pecrage. Took firm stand in Rand labor troubles of 1913. Resigned in 1914.

Gladstonia: William Ewart (1805-1898), the great Liberal statesman of the latter part of the toth century. The son of a Liverpool merchant, he studied at Eton and Oxford. Was elected, as a Tory, member for Newark in 1828. In 1824 was, made a Lord of the Treasury under Peel, and in the following year became Under-Secretary for the Colonies. In 1847 Peel made him Vice-President of the Board of Trades, and in 1848 full President with the Board of Trade, and in 1843 full President with Cabinet rank. In 1852 he was Chancellor of the Exchequer, having severed his connection with the Peel Party and become a member of the Coultion Munistry. In 1850 he was Lord Palmerston's Chan-cellor of the Exchequer, and on that nobleman's death became leader of the House of Commons under Earl Russell. In 1868 he was appointed Premier, for the first time. Passed the Irish Church Disestablishment Measure in 1869, the Irish Land Act in 1870, and the Bellot Act in 1872. After 1874 he was in temporary retirement for a short period, but, stirred to indignation by the "Bulgarian Atrocities," he commenced a campaign of denunciation in which he carried the country with him, and in 1880, at the general election, he was returned to power with an overwhelming majority. He then became Prime general election, he was returned to power who accover whelming majority. He then became Prime Minister for the second time. In 1885 he was out of office again, but returned to power in 1886 and became Prime Minister for the third time. It was then that he introduced his first "Home Rule" Bill, on which he was defeated and dissolved Parliament, and at he was defeated and dissolved Parliament, and at the general election, the Conservatives had a majority, and it was not until 1892 that Mr. Gladstone was again in power. In 1893 he brought in his second Home Rule Bill, which passed the House of Commons but was defeated in the Lords. After that he resigned and took no further part in Parliamentary life. He died on the 19th May, 1893, and was burned in Westminster Abbey, his great political opponent, Lord Salisbury, being one of the pall-benera. His body lay in state in Westminster Itali for two days and was viewed by no less than 250,000 people, who passed it in unbroken succession.

passed it in unbroken succession.

Glandowar, Owan (1359-1475), a famous Welsh chieftain who proved a formidable opponent to Henry IV., and gathered around him a great following of Welshmen, whom he led with much bravery, though finally defeated in 1405.

Glenaek, Lord (1850-1008), was an active politician and proprietor of the Morring Post, which, under his able direction, became one of the great successes of London journalism. He represented South Kensington in Parlament from 1885 to 1805, Was knighted (as Sir Algemon Borthwick) in 1880, created a buronet in 1887, and raised to the peerage in 1895. As President of the Newspaper Press Fund, and as one of the founders of the Primrose League, he did excellent service to his profession and his Party.

one of the founders of the Primrose League, he did excellent service to his profession and his Party. Gluck, C. W. (1742-1787), one of the most eminent composers of opera of the 18th century. His "Orfeo" and "Iphigenie" are his best-known works. Godfrey of Bouillon (1051-1100) was the leader of the First Crusade, and after the conquest of Jerusalem, exchanged the title of King for that of "Protector of the Holy Sepulchre," He liberated the Holy Land, and was buried on Mount Calvary. Godfye, Laddy, was the pious and beautiful wife of Leofric, Parl of Chester and Lord of Coventry in 1040. Having appealed to her lord to reinit certain impositions from the mhabitants, he promised to grant her request if she would ride naked through the town. This she did, having first passed the word to have blinds and slutters drawn at the appointed hour, and so obtained the people's rauson.

to have blinds and slutters drawn at the appointed hour, and so obtained the people's ranson.

Godolphin, Earl of (1610-1712), was a page of honour to Charles II, and became Fust Lord of the Treasury under William III, during whose reign he kept up a secret correspondence with James II, in his exile at St. Germani's Godolphin was again. Premier under Queen Anne, but was dus up at the fall of the Marthoroughs.

Godwin. Earl of the West. Sexons (2000-1903).

Godwin, Earl of the West Saxons (990-1053). was one of the most influential noblemen of his time and gave his daughter in marriage to Edward the Confessor, against whom he was afterwards in rehellion. Godwin's sou, Harold, claimed the throne after I-dward's death, but was killed at Hastings.

after I-dward's death, but was killed at Hastings. Godwin, William (1756-1846), a notable pointed writer and novelest of very advanced ideas. Is now hest remembered by his novel Caleb Williams. His first wife was Mary Wollstonecraft, who wrote ably on the "Rights of Woman" Goethals, Gol. (b. 1859), after making a considerable success as a military engineer in the United States army wis un 1909 appointed Governor-in-charge of the Pannia Canal, in the carrying out of which he has about a convertable administrative canacture, well shown a remarkable administrative capacity as well se a genus for constructional enterprise.

Goethe, Johann Wolfgang won (1749-1832), the

most distinguished of German poets and writers.

After producing the "Sorrows of Werther," and various poetical plays, he settled down at Wennar,

received a Ministerial appointment, and began his famous drausatic poem "Faust," which in the course of years he concluded, presenting the world with one of its greatest literary works, which has been more written about than any other tragedy of modern days. Goldie, Rt. Hon. Eli Geo. Taubman (h. 1846), famous as the founder of British Nigeria. Elected President of the Royal Geographical Society in roos. Was a Commissioner to inquire into the Boer War, and is President of National Defence Association. Goldsmith, Olivar (1782-174), the celebrated author of the Vicar of Washefuld, The Descried Village, and She Stoops to Conquier. The son of a poor Irish curate, after much strugge and adventure he found his way to London in 1756, and subsequently devoted himself entirely to literature, being befriended by Dr. Johnson and held in great esteem by Reynolds, Burke, and other eminent men of the time. Of a lovable but thriftless nature he was generally in lovable but thriftless nature he was generally in debt, died poor, and was buried in the churchyard of the Temple.

Gooch, Sir Daniel (1816-1889), a mechanical en-gineer, who learnt his business under the Stephensons, gineer, who learnt his business under the Stephensons, and in 1837 was made locomotive superintendent to the Great Western Railway. In 1864 he took up the problem of laying a telegraph cable across the Atlantic, in which, after one fallure, he succeeded and was made a baronet. In 1866 he accepted the chairmanship of the Great Western Railway Company, which position he held with success up to the year of his death.

Goodall, Fraderick, R.A. (1822-1904), was one of the most successful of English painters during the greater portion of his life, and achieved special eminence as a painter of Eastern subjects.

eminence as a painter of reastern subjects.

Goodyear, Charles (1800-1860), an American, discoverer of the art of vulcanising rubber, by which the utility of the material was greatly extended.

utility of the inaterial was greatily extended.

Gordon, Adam Lindsay (1833-1870), an Australian
poet who wrote many sturing hallads and poems, his
"Bush Ballads and Galloping Rhymes" being a great
success. As a settler, however, he failed, and, after
numerous unfortunate experiments with sheep and
cattle and other things, committed suicide.

Gordon, Charles Georga, Major-General (18331885), a distinguished soldler, adminustrator, and
earnest Christian, who had a most adventurous,
useful, and self-sarrificing career. He saw active
service in the Crimea, Chiua, and India, and in 1873
was made Governor of the Equatorial provinces of
Erovet. In 1877 he went out to the Soudan for the Egypt. In 1877 he went out to the Soudan for the Egyptian Government, and in 1884 again proceeded thither on behalf of the English Government to deal once more with the difficulties which had arisen consequent on the Mahdi Rebellion While holding

consequent on the Malidi Rebellion White Inditing Khartoun against the Insurgent forces he was captured and killed.

Gordon, Lord George (1751-1793), was tried for treason as the instituator of the Anti-Popery riots of 1790, but acquitted on the ground that he had no treasonable intention. Some years later he was committed to Newgate for itbelling Marie Antoinette and died there of fever.

Gorge, Was, Catharine (1700-1861), a yeary prolific

Gore, Mrs. Catherine (1709-1861), a very prolific novelist and playwright, whose books were in great vogue at one time, but are now little read.

Gore, Rt. Rev. Charles, M.A., D.D. Bishop of Oxford since 1911 (h. 1853), was educated at Oxford; Canon of Westminster, 1894-1902; Hon. Chaplain to Queen Victoria, 1896-1900; Chaplain in Ordinary to the late King, 1901; author of numerous theological books, including Sprittual Efficiency (1904) and The Questions of Divorce (1915).

Gorell, Baron; Rt. Hon. Sir John Gorell Barnes (1886-1913, Judge of the Probate and Divorce Court, 1892-1905; P.esident, 1905-1908; P.C. 1905; raised to the Peerage, 1909.

Gorky, Maxim (h. 1868), the Rifssian novelist and writer, whose works are remarkable for their realistic power. He first served att apprenticeship with & Gore, Rt. Rev. Charles, M.A., D.D., Bishop of

power. He first served an apprenticeship with a shoemaker, then became apprenticed to a designed tut finding little success in these lines, engaged as scullion on a packet boat in 1880. Three years later he was working in 1 bakehouse, and in 1880 was

singing in the chorus of a strolling opera company. In 18th he sold apples in the street. In 1888 attempted to commit suicide. In 1890 was copying clerk in a lawyer's office, and in 18ca was employed in a rallway work-shop. In that year his first story was published, and he found his vocation. He is now perhaps the most popular of Russian authors. For his part in the disturbances in January, 1905, at St. Petersburg, when many were massacred, he St. Petersburg, when many were massacred, suffered imprisonment.

suffered imprisonment.

Gorat, Bir Eldon (1863-1911), son of Sir John Gorst, and a financier who evinced hereditary administrative capacity in Ligypt and at home. Was appointed Assistant Under-Secretary at the Foreign Office in 1904, and in 1909 succeeded Lord Cromer as British Agent and Consul-General.

Gorat, Et. Ron. Bir John (h. 1825). From 1861-1863 was Civil Commissioner in New Zealand; after which he returned to England, entered Parliament, and obtained prominence as a member of the "Fourth Party". Party. Later he filed the positions of Under-Secre-tary for India, Secretary of the Treasury, and Vice-tary for India, Secretary of the Treasury, and Vice-president of the Education Council. A Free Trader who opposed the Fiscal policy of Mr. Chamberlam, he was of the numerous Conservative ex-Ministers to

he was of the numerous Conservative ex-ministers to suffer defeat in the Liberal reaction of 1906. Gortschakoff, Prince (1798-1883), was the most prominent Russian statesman of his time, and Foreign Minister during the Crimean War. In later years be became Chaucellor of the Empire, and achieved many diplomatic victories. He resigned in 1882 and

occame Chancellor of the Empire, and achieved many diplomatic victories. He resigned in 1882 and died the following year.

Goschen, Viscourt (1831-7907) Educated at Rugby and Oxford. Entered Parliament in 1863 at Liberal Member for the City of London and for a number of years held various offices under Mr Gladstone, from whole various offices under Mr Gladstone, from whom he separated on the How-Rule question. In 1886 he accepted office under Lord Salisbury and became Chancellor of the F-chequer, a post which held from 1886-1892, in which latter year he was raised to the Pecrage. Was a Free Trader and a statesman of strong personality.

Gosse, Edmund (b. 1840), a distinguished poet and critic who has written lives of Gray, Congreye, and Dr. Donne, and his History of 18th Century Interature and History of Modern England Literature show great critical power and appreciation. Dr Gosse was appointed librarian to the House of Lords in 1904, and since then has written a book on French literary men and a life of Str. Thomas Browne. In 1909 he published a work.

Str Thomas Browne. In 1909 he published a work entitled Father and Son, being recollections of he father, the late Philip Gosse, and of his own ear'; career. His Collected Essays (5 vols.) were issued

Gough, Viscount (1779-1869), a British general who had a brilliant career, first in China, and later in India. He gained a suctory over the Mahrattas at

India. He gamed a victory over the Mahrattas at Maharaipur in 1843, over the Sikhs at Sobraon in 1845, and finally at Gujerat achieved the defeat which made the Punjula a British possession.

Gould, Sir Francis Carruthers (b. 1841) Perhaps the eleverst political caricaturist of the day, and has also done considerable journalistic work as assistant editor of the Westiniquer Gasetti. He was for twenty years on the Stock Exchange, and for many years ulustrated the Christinas number of Trieth. His "Picture Politics," as he styles his caricatures, appear manly in the Westini, bu have an extensive circulation in a separate form Knighted in 1906. Knighted in 1906.

Gould, Jay (1836-1892), a well-known American financier and railway magnate, who acquired an enormous fortune and considerable notoriety in

enormons fortune and considerable notoriety in Wall Struet speculations.

Gounod, Charles F. (1818-1893), the eminent French composer, who won a position of the first rank by his "Faust," produced in 1859, one of the most successful operas of the 19th century. Other famous operas of his are "Romée et Juliette" and "Le Médecin malgré lui." He also composed much sacred music of an intensely sprittual character, including his oratorio, "The Redemption."

Gower, John (1325-1408), an English poet of the time of Chaucer, who wrote many elegan, ballads and devotional poems. His "Confessio Amantis" was frinted by Caxton in 132s. He was buried in St. Saviour's, Southwark.

Grace, Dr. William Gilbert (b. 1848), the most iamous cricketer of his time, was born at Diewich in Clouestershire, educated for the medical profession, and for the long period of forty years held his supremacy as an exponent of the national summer game. In 1879 he was presented with £1,400 as a testimonial; and in 1895, on completing his "century of centuries" in first-class cricket, received a much larger financial recognition.

Graham, Sir James (1792-1861), a prominent Whig statesman, who filled several important Cabinet

Whog striesman, who filled several mijorrant Labinet positions between 1890 and 1882.

Graham, John of Clawerhouse, Viscount Dundee (1033-089). Renowned for his sturdy adherence to the Stuarts, and headed a rebellion in Scotland against William and Mirr, but was killed at the Battle of Killicerankie. He was a stringent persecutor of the Covenancies, and suffered del. at their hands at Drumlog in 1295.

Granard, Earl of, P.C., K.P. (b. 1874) was Assistant Posinaster-General 1907-1909, and Master of the Horse. In 1911 was special Ambassador to announce King George V.S. accesson to Luropean Courts. Married the daughter of Mr. Ogden Mills.

Grant, James (1882, 1887), was an enument military

- COURS. Married the dangmer of Mr. Ognets Mr. ogness are not the format, JR Times (1882 1887), was an enument military novelust who achieved considerable distinction by his story The Komance of War. Woode in all more than fifty historical novels, many of them concerned with Scottish subjects.
- Grant. Sir James Hope (1808-1875), a distinguished British general, who saw much active service and won distinction in China and India, playing a prom-nent part in the crushing of the Indian Mutmy.

Grant, General Ulysses (1822-1885), the most distinguished American general of the Civil War. Become President of the United States from 1868,

Became President of the United States from 1868, and was re-elected to that office in 1872.

Grantham, Sir Wm. (1835-1911) a Judge of the High Court from 1866. Represented Last burrey in Parliament from 1874 to 1885, and Croy don 1885-1886.

Granville, Earl (1815-1861). Cranville Coorge Leveson-Gower, and Earl (son of the 18th Larl, a distinguished diplomatist in his timel, was a proniment Liberal Statesman, who held many high Government positions between 1857 and 1886. He first entered Parliament in 1856, and was Colonial Secretary in Gladstone's first Ministry, and Poreign Minister from 1870 to 3874 in Succession to Palmerston, Minister from 1870 to 1874 in Succession to Palmerston, again from 1880 to 1885 under Gladstone.

again from 1850 to 1885 under Gladstone.

Grattan, Henry (1740-1800, an Irish orator and statesman who, first in the Irish Parliament, and atterwards in the Inperial Parliament, did memorable work for the cause of his country, and was presented with Aspace by the Irish people for his services to the Irish cause.

the Irish cause.

Fray, Thomas (716-1771), the English poet, whose "Elegy Written in a Country Churchyard" is one of the most beautiful mite language. His other poems were not numerous, but included a fine "Ode on a Distant Prospect of Eron College" and a notable "Ode to Adversity." Was a great friend of Horace Walpole's, Rofused the laurcateship.

Pealsy, Horace (1817-1872), founder of the New York Tribune and a poetical writer of great power and influence. Was an unsuccessful candidate for the United States Presidency in 1872.

Tream, John Richard (1897, 1883), one of the most

Green, John Richard (1837-1883), one of the most eminent of modern English historians. His History eminent of modern English historians. His Tistory of the English People forms an accurate and picturesque narrative, both in the first short and later lengthier treatment, being fresh and distinctive at all points; whilst his Making of England and Conquest of England were both worthy works.

Greana way, Easte (1846-1901), a gifted book illustrator and water-colour artist, whose drawings of children were full of charm and delicacy, and gamed her great popularity and the warm approval of no less a critic than Ruskin.

Greene, Robert (1560-1500), an English poet and

dramatist who preceded Shakespeare, and is mainly remembered by his "Orlando Furioso."

remembered by his "Orianno Furioso.

Green well, Dora (1821-1882), a poetess and writer
on devotional subjects, whose poems and essays were
of a sweetly tender and thoughtful cast, and were much read and admired.

- Greenwood, Frederick (1835-1900), first editor of the Fall Mall Gazette and subsequently founder of
- the Pall Mail Gazette and subsequently tounder or the St. Yamer's Gracette. A journalist and writer of distinction and influence, whose action led to Britain obtaining the controlling interest in the Sucz Canal. Gregory, Dr. Robert (1819-1911), after having been twenty-three years. Lanon of St. Paul's was appointed Dean in 1802. Wrote a History of Elementary
- **Gregory, St.** (257-336), was founder of the Armenian Church, and spent his last years in a cave at the foot of Mount Schuh
- of Mount Schult

 Gregory the Great (540-60), first of the sixteen
 pops of that name, and, next to Leo I, greatest of
 the ancient Bishop of Rome. He was pope from go
 to his death. He arranged the Gregorian mode of
 chanting. Pope Gregory XIII. (1502-158) introduced the Gregorian calendar.

 Granville, George (1712-1770), was the Minister of
 George III. who was responsible for the introduction
 of the system of colonial taxation which led to the
 American War of Independence.

 Granville, Sir Richard (1541-7591), the Elizabethan sea-captain, who with his one ship engaged a
 flect of Syanish war-vessels of Flores, in 1591, for fourteen hours, and thed the surrendering, an explut cele-

teen hours, and died in surrendering, an exploit cele-brated in Tempson's noble ballad, "The Revenge," Gresham, Bir Thomas (1519-1579), was the wealthest London merchant and financier of his time, He built the first Royal Exchange and founded Gresham College The son of Sir Richard Gresham (Lord Mayor of London), he succeeded his father as King's Agent at Antwerp, and proved an astute

money-finder for the Court in four successive reigns, ending as Queen bluzabeths "Royal Merchant." (Gruzze, Jean Baptiste (1725-1805) a French pamter whose works display much delicacy and beauty of handling, especially his vindice on girls.

beauty of manning, especiary in Stratus of gains.

Graville, Charles (1794-1805), author of a ciclorated book of Memory, affording much usight into the political court, and sound life of the long period during which he filled the position of Clerk of the Council (1827-1860).

Gouncii (1887-1895).

Grey, A. H. George, 4th Earl (b. 1851). Administrator of Rhodesia, 1890-1897. Converner-General of Canada. 1934-1911. A Discour of the British South Africa Company from 1898, and invested the Rhodes memoral in Rhodesia in 1912. An

the Rhodes memorial in Rhodesia in 1912. An ardent Temperance Reformer.

Grey, Charles, 2nd Earl (1704 1845), a great English Wing statesman, under whose Premiership were passed the Reform Bill of 1842, the Bill abolishing slavery throughout the British Empire (1843), and the Poor Law Amendment Act of 1834.

Grey, Lady Jane (1537 1554), was the daughter of the Duke of Suilolk and great-granddaughter of Henry, VII On the death of Edward VI she was

the Luke of Sunda and Reachast N.1. she was proclaimed Queen, but only reigned for ten days, Queen Mary ousting her and maintaining the Tudor succession. Six months later Lady Jane and her husband, Lord Guildford Judley, were executed.

Grey, Rt. Hon. Sir Edward, N.P. (b. 1862). Under-Secretary for loreign Admir in the Roschery Government, and has since been a prominent leader of his party. Appointed Foreign Munster at the close of 1905, a position in which he has won universal approval for his masterly handling of the Balkan difficulties of 1912-1913, and all through the difficult strain which preceded Germany's rush into war, as well as in the ardious tasks since thrown upon him, has acquitted himself with marked ability, force and dignity.

has acquittee ministry with matter about 1888.

Grey, Sir George, K.C.B. (1812-1898), an administrator of distinguished ability who was Governor of New Zealand from 1846 to 1854, from 1854 to 1865.

Governor of the Cape of Good Hope, and from 1854 again Governor of New Zealand, being Premier of the colony from 1877 to 1884, and doing signal service

Grieg, Edward (1843-1907), a Norwegian musical composer, who presented the characteristics of his country's music with strong accentuation in numerous compositions of great melodic beauty

compositions of great mercent beauty.

Griffin, Gerald (1802-1849), a novelet and poet of Limerick birth, whose stories are remarkable for their forceful pictures of Irish life, and for their sympathetic vein of sentiment. It was from his story of *The Collegians* that Dion Bouckault wrote his play "The Colleen Bawn."

fis play 1 the Content Dawn.

Grimaldi, Joseph (1779-1837), the most famous of British partonine clowns, whose main successes were won at Sadlers' Wells in days when partonine called the consisted almost entirely of what is called the barlequinade, now all but dispensed with. Grimthorpe (Edmund Beckett), Baron (1816-

primisorpe (Edmund Beckett), Baron (1816-1905), was long known as br Edmund Beckett, Bt, and at the Bar and in Parliament bad a successful career. Knised to the peerage in 1866. Was a great authority on horology, and, with Professor Arry, designed "Big Ben," He restored St. Albans Cathedral at his own cast.

Grippenburg, General Oscar C. (b. 19,8), one of the leading Russian generals in the Russo-Japanese War. He saw active service in numerous compangus in previous years, and communided the Second Manchuran Army in 1904

Mancaurian Army in 1703 **Grossmith, George**, [1847-1912], the well-knownactor and entertuner. Made his first appearance in 1870 at the Polytechnic Institution as an entertainer, and in 1877 became connected with Gilbert-Sullivan in 1877 became connected with Gilbert-Sullivan opera, continuing to appear in the principal operas of the series, and achieving uniform success in all. Later he devoted himself chiefly to humorous and musical recital. His father, George Grossinth the elder, was also a popular ervertainer and lecturer, his brother, Weedon Grossinth, is an actor and artist of considerable attainments, and his son, George Grossmith, Junit., is a successful coincidian.

Grossmith, Juir., is a successful coinculan.

Grots, George (1794-1971), was a London banker who devoted many years to the writing of the History of Greece, a work of pre-eminent merit. He was for a short period in Parlament and wrote acceptably on Plato and other Companions of Socrates IIs, wise (Illarriet Levin, who shed in 1878) wrote his biography, and ilso published (in 1886) the Life of Ary Sunffer.

Grouchy, Karshal (1706-1847), a famous Napoleonic general who, at Holiculinden, Wagram, and in the Moscow retreat rendered signal service. After Waterloo he led the defeated army back to Pars, and later lived in America for a few years, returning and later lived in America for a few years, returning

and later lived in America for a few years, returning

to France in 1819.

Grove, Sir George (1820-1900), was a distinguished engineer and bridge and lighthouse builder, but better known as an enthusiastic lover of music, the better known as an enthusistic lover of music, the study and performance of which in England he did much to promote. He was for a number of years Secretary to the Crystal Palue, making that institution famous for its high-class musical performances. He was the first Director of the Royal College of Music, and was knighted while holding that position. His Dectamary of Music and Musicass is the leading work of its kind, and has recently been brought up to date and republished. Grundy, Sydney (b. 1848), a well-known dramatist and author of numerous successful plays, including "Mammon," "A Pair of Spectacles," "Sowing the Wind," and "The Degenerates."

Wind, and I he Degenerates.

Guido, Reni (1575-1642), was one of the eminent
Italian painters of the Bolognese school, Ha
"Michael Vanquishing Satan," "Magdalene," and
"The Massacre of the Innocents" are among the world's great pictures.

Guizot, F. (1787-1874), a French statesman and historian, who held important appointments under Louise Philippe, but spent his later years in literary work. He wrote a History of Communication, a Ristory of Communication of the Ristory of Communication of the State of Communication of the Ristory of Communication of

Stakespears William (1816-1890), one of the most eminent physicians of his time: Professor of Physicians of his time: Professor of Physicians of his time: Professor of Physician Physician and Lecturer at Guy's Hospital from 1847

to 1867. Was physician to the late King when, as Prince of Wales in 1872, he passed through an extremely critical illness.

extremely critical liness. (See Selby, Viscount.) Guily, Mr. Speaker. (See Selby, Viscount.) Gustavus, Vass, King of Sweden from 1523 to 1550, drove the Danes out of his country and gave to it a considerable degree of prosperity by his

it a considerable degree of prosperity by nis enlightened rule.

Guy. Thormas (1644-1724), founder of Guy's, Hospital, was a dealer in Bibles, speculator and money-lender, who, after making a large fortune bequeathed £300,000 for the erection and endowners of the famous inequals.

Guyos, Ywas (b. 1848), a French Socialist and Reformer, whose writings on political subjects has a attracted much attention throughout Europe. Howas Minister of Public Works in 1889, was editor of the Siècle 1893-1903; editor of L'Agence Economique et Financière since 1011.

et Financière since 1011.

Gwynne, Nell (1659-1687), was originally, it is said, an orange girl of provincial birth, and afterwards a sprightly London dancer and actress, who became mistress to Charles II. Her eldest son was made Duke of St. Albans.

Hadrian (76-798) was Emperor or Rome in succession to his nucle Trajan, and one of the greatest of Roman rulers. He visited Britain, and in A.D. 172 built the wall between Newcastle and Carlisle for protection of his dominations against the Pets and Scots.

of his dominions against the Picts and Scots.

Hackel, Professor Ernst (b. 1831), an eminent German scientist and philosophier, and Professor of Zoology at Jena University. Has been an earnest supporter of the Evolution theory, and his writings have been popular throughout Europe. A Life of him by Bolsh le was published in 1907.

Haggard, Sir H. Hincer (b. 1856), spent several years in South Africa in official positions in the "seventies," and returning to Inigland began to write novels. After one or two failures made a brilliant success with King Solomon's Mines in 1886. In Swas followed by She, Jess., and others. He is deeply interested in agricultural subjects, on which he has written very ably, his look, Facts to the Land, he has written very ably, his look, Sack to the Land, having excited much attention. Knighted 392. Hahnemann, S. G. (1752-1843), the German physician who lounded the system of Homeopathy, to the exposition of which he devoted his life.

Hakluyt Richard (1553-1016), the first of English naval historians, by his Divers Voyages touching the

naval historians, by his Divers Voyages touching the Discovery of America, and Principal Newsgations Voyages and Discoveries of the English Nation, the much to help forward the coloniang spirit.

Raidane Viscount, K C (b. 1856), satior Haddingtonshire 1885-1911, and after hiving made a name at the Bar, was appointed a Court issumer to inquine into the Featherstone riots in 1902. In 1901 wis Vice-President of the Liberal-Imperiolist Leigne, and at the close of roag was made War Minister which position he reimpushed in 1912 on succeeding Lord Loreburn as I ord Chrucellor. Received his viscountry in 1917. Went to Montreal in Sept., 1913, and gave an address to the American Bar Association. and gave an address to the American Bar Association

and grave an address to the American Bar Association at the McCall University. Also vasted New York Hale, Sir Matthew (1609-1676), an eminent judge of the Restoration period, who had been a member of Cromwell's Parliament. Is best remembered as the author of certain legal histories, which are still valued. He became I-ord Chief Justice in 1671. Haldwy, Ludowie (1834-1903), a brilliant French writer who supplied Offenbach with libretti for some of his most famous comic operas; among them 'I-a Belle Hélène,' "'La Grande Duchesse," and "Birthe Hieue." In conjunction with Meilhac he wrote several notable plays, of which "Frou-frou" was perhaps the most successful.

perhaps the most successful.

Haliburton, Thornas Chandler (1796-1855), while judge in Nova Scotta published a series of books of American humour under the pseudonym of "Sam Slick." Slick was portrayed as a clockmaker of a shrewd philosophy that admirably exploted some of the early 19th century Yankee's characteristics.

Halifax, Earl of (1661-1715) was an eminent states-man, who filled the office of Chancellor of the Exchequer in 1694, and established the Bank of

ingrand.

Halitax, Viscount (b. 1830), President of the Inglish Church Union, and a strenuous worker for bringing the guif between the Anghean and Catholic bodies of Christendom.

Hall, Marie (b. 1884), was born in Newcastle-on-Tyne, and studied the violin under several eminent

type, and studied the vioni under several eminent teachers, including Seveik of Prague, and on appearing in public in London in 1903 at once took up a position among the leading volunists of the time.

Hall, Rev. Newman (1816–1902), a Congrégational divine, who from 1884 to 1876 preached with great acceptance at the Surrey Chaple in London, and thereafter to 1892 at Christ Church, Westmisser Bridge Road, a splendid new edifice reared chiefly between the control of th

through his exertions.

Hallam, Henry (1770-1850), a graceful and scholarly lustorian who contributed several important works to the literature of his time. His View of the State of I urope during the Middle Ages, Constitutional History of Fugland, and Introduction to the Literature of I-urope are distinguished for their clearness of

style and correctness of judgment for their clearness of style and correctness of judgment.

Halle, Sir Charles (1819-1895), a distinguished maintst and conductor who was born in Westphalia. Went to Paris to study music in 1846, and in 1848 settled in Lundon, where he soon became known as a mano-player of the first rank. He organised an orchestra of high-class talent, and for many years conducted it in Loudon and the provinces. He marned Madame Norman Neruda (d. 1971), the celebrated violants, in 1888, and was kinglifted the same year.

Halley, Edmund (1656-1742), English Astronomer-loval from 1720 to his death. Discovered what is known as Halley's comet.

known as Halley's comer.

Railsoury, Hardings Stanley Giffard, 1st Barl of (b. 1825), was a barnster in licentive practice from 1850-1875, when he was appointed Solicitor, Gendral. In 1889 was raised to the Peerage as Baron Halsbury, and became Lord Chancellor, Was raised to an earldon in 1866, and occupied the Woolsack in the Conservative Ministries of 1886 1892 and 1895-1905. Led the "Die-Hards," opposition to the Veto Bill in 1911. Charman of the Murray-Marcon inquiry of 1914.

**Hamerton, Phillip G. (1834-1864), an able and original painter and critic, who first attracted notice by his clever book A Painter's Camp in the High-lands. For a time be was art critic for the Schurday.

lands. For a time he was art critic for the Salurday Remem, and in 1870 established The Port, olio, a monthly art journal. He was author of two novels and some excellent studies of French painters.

Hamilton, Emma Lyon, Lady (1761-1815), was a woman of humble burth and great personal beauty who attained promunent notice by her association with Sir William Hamilton, British Ambassador at Naples, who married her, and afterwards with Lord Nelson, who conceived an infatuation for her. Romney painted her portrait frequently. She died in poverty at Calais, although Nelson had expressly directed that she should be taken care of.

Hamilton, Lieut-Gen. Sir Ian (b. 1873), was sine of the successful generals of the Boer War, and

Hamilton, Lieux-Gen. Sir Iah. (b. 1973), was me of the successful generals of the Boer War, and had previously had experience of active service in the Soutdra and Burna. In 190-1904 was Quartermaster-General, G. O. Chi-Chief Southern Commander-on-Cher unthe Mediterranean, 1910.

Hamilton, Lord George (b. 1845), was Secretary for India from 1895 to 1903, and had priviously filled the position of First Lord of the Admirality. He was Chairman of the London School Board 1804 1895. Is a Free Trader, and resigned on Mr. Chamberdain's Inscal Policy. Captain of Deal Castle since 1899. He is a son of the 1st Duke of Abercom.

Hamilton, Patrick (1504-1528), one of the Scottish Reformer martyrs, who, spending some time with Luther in Germany, returned to his native country, and was arrested and burnt at the stake as a heretic.

Hamilton, Sir William. Bart. (1788-1856), was Professor of Logic and Metaphysics in the University of Logic and Metaphysics in the University of Logic and Metaphysics in the University of the Stake and State of the Control of the Scottish Professor of Logic and Metaphysics in the University of the State and State of the State and State of the State and Metaphysics in the University of the State and Metaphysics in the University of the State and State of the State and State of the State and State of the University of the State and Metaphysics in the University of the State and State of the State of t

Professor of Logic and Metaphysics in the Uni-

versity of Edinburgh from 1836 to his death. He was a profound scholar, and shed much light upon the subjects he wrote upon. His Discussions in Philosophy is a remarkable book, and influenced the thought of his time.

the thought of his time.

**Hampdan, John (1504-1643), the English patriot who opposed Charles I.'s "Ship Money" tax, and by his resistance and eloquent advocacy of the cause of the people materially helped the Parliamentary cause. He was mortally wounded while leading a regiment he had levide at Chalgrove Field. He was one of the "five Members" impeached by Charles I.

**Handel, George Frederick (1685-1759), a German musical composer of great enuence, who passed

musical composer of great emmence, who passed most of his life in England, composing operas and most of his life in England, composing operas and mustcal compositions of many kinds, and ultimately achieving world-wide fanie by his great series of oratorios, including "Esther," "Deborah," "Saul," "Israel in Egypt," "The Messiah," "Samson," and "Judas Maccabeus," Undoubtedly the greatest world has produced. Was buried in Westminster Abbey.

in Westminster Abbey.

Hanway, Jonas (1712-1786), a well-known traveller and philainthropist, whose book on his travels in Persia and Russia was much read and discussed. His efforts on behalf of poor London children resulted in great good. The fact that he was the first man to walk about the streets of the inetropolis with

an umbrella has often been recorded.

Hannibal (247 183 B.C.), the renowned Carthaginian general, who led an army against Rome, and achieved many notable victories over superior numbers. Was deleated by Scipio at the Battle of Zania, and afterwards fell upon evil days, suffered exile, and poisoned hunself to avoid being captured by his encinies.

Hannington, James (1847-1885), Bishop of Equa-

torial East Africa, was not only a successful missionary but an ardent explorer, and it was while attempting to find a new route to Lake Victoria Nyanza that he

was made prisoner by Mwangi and put to death.

Hansard, Luke (1752-1828), an English printer
who for many years printed the Parliamentary
reports which still bear his name.

Hansom, Joseph (1803 1882), a native of York and educated for an architect, but turning his attention to the question of an improved road vehicle, invented the cab which was called after him—'the condola of London," as Beaconsfield styled it, now in its turn

London," as Beaconsfield styled it, now in its turn being superseded by the taxical, 1863), son of the late Sir William Harcourt, and M.P. for Rossendale Division since 1004. Was appointed First Commis-sioner of Works, December, 1005, Joined the Cabinet in March, 1007, and was made Colonial Secretary in 1910. A very popular Minister and successful Parlamentarian

Harcourt, Sir William Yernon (1927-1904), barrister, author and Liberal statesman. Entered Parliament in 1868 and continued, with but a short intermission, to be a member up to the time of his death. He was an enthusiastic supporter of Mr. Gladstone, whom he championed on all occasions. Was Solicitor-General in 1873, when he was knighted. Became Home Secretary in 1880, was Chancelor of the Exchequer from 1880, and again from 1892-1895. After Mr. Cladstone's retirement in 1894, he led his party in the House of Commons up to 1898. His death occurred suddenly, after he had intimated his intention of finally retiring from public life. His Finance Act of 1894 has resulted in large additions to the Revenue under the head of Death Duties.

Hardicanute (1019-1042), son of Canute the Great, was King of England from 1040 to 1042, and is un-pleasantly remembered for having imposed the tax called Danegelt. He was the last Danish sovereign

of this country.

Hardie, J. Keir, M.P. (b. 1856), a Radical politician and Labodir representative, who acted as editor of the Miner and the Labour Leader from 1887-1904. of the Miss and the Labour Leader from 1007-1001, but in 1882 became a journalist, and entered Parliament as member for Westvilam in 1892. Founded the Independent Labour Party, and later sat for Merthy Tydvil from 1000-1006, and onward. In 1907 made a

tour round the world, and caused considerable stir in various places in Australia, India, and South Africa by his speeches.

Hardinge of Penshurat, Lord, formerly Sir Charles Hardinge (b. 1858), filled many important ciplomatic appointments between 1880 and 1906—at Constantinople, Berlin, Washington, and St. Petershurg—and in the latter year ber ame permanent Under-Secretary of State for Foregn Affairs. In 1910 was appointed Viceroy of India. On Dec. 23, 1912, his assassination was attempted by the throwing of a bomb as he was making his state entry into Delhi, but he was only signify wounded.

Hardinge, Viscount 1785-1850, was Governor-General of India from 1844 to 1847, and in 1852 succeeded Wellington as Commander-in-Chef.

Hardy, Thomas (b. 1840), was educated as an archi-

Hardy, Thomas (b. 1840), was educated as an archi-tect, and practiced for some time, but became known as a promising novelst in 1872 with his story Desperate Remedies. In 1874 his Far from the Madding Croud was published, which at once made him a name. was published, which at once made hun a name. Following that, it show it intervals, came a long series of powerful novels from his pen. Perhaps the most notable of his stories are The Trumpet Mayor, The Mayor of Casterbrudge, Test of the D'Urbervulles, and Stude the Obscure. In 1908 he completed a dranatic poem of epic conception entitled "The Dynasts," whose central figure is Napoleon.

Hare, Sir John (b. 1844), a well-known comedian, who was a leading figure in the first performances of the Robertsonial comoders in which he was associated with the Bancingles.

the Robertsonian comedies in which he was asso-ciated with the Bancrofts. From 1875 to 1900 he was in management on his own account at the Court, it, James, Garrick, and Globe theatres in London in succession. Knighted in 1907. Harginaryes, James (1700-1778), was a poor Lanca-shire-born incellance who lived later at and died in Newton and managed. If the complete in the con-

shro-born incume who need that a man there in Nortingham, and invented the spinning jeinty, one of the revolutionising labour-saving contrivances of the latter half of the 18th century. It met with much apposition, however, and kept him poor, though the community afterwards resped the advantage in a greatly improved industry Harley, Robert, Earl of Oxford (1661-1724), a

distinguished Tory statesman—originally, however, a Whig—of the Queen Anne period, who fell into the ceafter that Soveregan's death in consequence dis, ceafter that Soveron it's death in consequence of being suspected of intriguing with the Stuarts. He served at different times as Speaker of the House of Cominons, Chancellor of the Exchequer, and Lord Treasurer. "The H irleian Concetton in the British Museum is a reminder of his cultured literary

Harold II. (1022-1066), the last of the Saxon Sove-beigns of England, and the son of Faul Godwin, was rowned King in succession to Edward the Con-lessor in 1066. The conning of William the Conqueror, with his great army, soon, however, put an end to the hope-of Harold and his followers: and the battle I Hastings terminated at once his life and Saxon way in this country.

way in this country.

Euroun-Al-Raschid, the famous Caliph of Bagdad (786-800), familiar to all by the references to him in the Arabian Nights, and memorable in history as a wise and powerful ruler, whose possessions ex-tended from the Indus to the Nile and over a con-

siderable part of North Africa.

Harraden, Beatrice (b. 1864), a novelist best known by her Shifs that Pass in the Night, published in 1893. Born at Hampstead, her mother was of Swedish and Spanish parentage, and her father, Mr. Samuel Harraden, a musician and scholar. Miss Harraden is a Bachelor of Arts of London University,

Harraden is a Bachelor of Arts of London University, and her published works inclind—besides that mentioned above—in Varying Moods, The Fowler, interplay, and Kathevine Franchism.

Harris, George Robt. Canning, 4th Baron (b. 1851), has served his country at some as Under-Secretary for India (1885–1886) and Under-Secretary for War (1885–1880), and abroad as Governor of Bombay (1800–1895), and with the Imperial Yeomany in South Africa in 1907. His lord-hip has above on considerable fam as a keen cricketer, in connection with the Keet Count Charles.

with the Kent County Club particularly.

Harrison, Sanjamin (1833-1901), twenty-third President of the United States, and grandson of William Stenry Harrison (1773-1841), the ninth President. Benjamin Harrison was a Brigadier-General in the Civil War, and served as President

General in the Civil War, and served as President 1880-1803, failing to secure re-election in 1803. Marvison, Frederic (b. 1831), as leader of the English Postivists, filled a promment part in philosophical discussions, during the last quarter of the 19th century. He was a Professor of Jurisprudence under the Council of Legal Education from 1877 to 1883, and Alderman of the London County Countiform 1889 to 1892. In 1907 he published The Cress of a Layman and The Philosophy of Common Sense, and in 1908 Realists and Ideals. Published Autholographic Memoirs (1911).

Harison, John (1903-1778), the inventor of the Chronometer, for which he received the Government grant of £20,007, was a mechanican of great

grant of Zao, on was a mechanican of great ingenuity, who effected many important improvements in chocks, warches, and other instruments. He was a native of Foully in Yorkshire, and spend the last years of his life in retirement at Hampstead.

where an interesting monument was erected over his grave in the parish churchyard.

Hart, Sir Robert (1835-1911), was Director et Chinese Imperial Maritime Customs at Pokin, and for over half a century in the Consular and Customs ser vice in the Celestial Empire, during which he became the most trusted Englishman in China. Retired 1908.

Harte, Francis Bret (1830-1972), the American poet and author, who leapt into pepularity in the late sixties by his clever sketches and stories of Californian mining life, and minimaned a high reputation as a writer for a considerable period. His last

twenty years were spent in England.

Harvey. William (1578-1677), an English doctor and scientist who rose to great eminence both as an anatomist and physiologist, and became Physician Extraordinary to James I. He immortalised himself

by discovering the circulation of the blood in 1616.

Hastings, Warren (1732-1818), at seventeen years old went out to Bengal and took a position as writer on went out to bengal and took a position as when in the East India Company's service. Subsequently volunteered under Clive, and a year or two later became a Member of the Council at Calcutta Munifesting great ability, he was advanced from post to post, and in 1773 became the first Governor General of India. After twelve years of Governor General of India. After twelve years of Governor General of India. ceneralisab he returned to England, and was inpeached on charges of excessive cruelty and corruption. The trial lasted seven years, and cost Hastings £70,000 He was ultimately acquitted, and the East India Company settled an annuity of £4,000 upon him, and he lived to see his plans for the security of British rule in the Orient publicly applicated.

Hatto. Archbishop of Mayence, a powerful but crue' prelate, who according to tradition was cast into the Mouse Tower still standing at Burgen on the Rhine, and there was worried to death by rats, as set forth

in Southey's well-known ballad.

Hatton, J. L. (1809-1886), an English musical com

Hatton, J. L. (1809-1886), an English musical composer, who made a vereat name as a composer of songs, cantatas and glees. His "Simon the Cellarter" is perhaps his best remembered song. Hatton, Joseph (1839-1907), a clever journalist, miscellaneous writer, and novelist, who produced clarge number of readable books, his faction including Civite, John Needham's Deuble, By Order of the Crear Seal. His Journalistic London, Reministences of J. L. Toole, The Net Ceylon, and Henry Irving's Impressions of America, exhibited a genial and graceful style.
Ratton, Bir Christopher (180-1901), an English statesman who first attracted the attention of Queen Elizabeth by his dancing at a Court masque, and

Elizabeth by his dancing at a Court masque, and

Elizabeth by his dancing at a Court masque, and was by her appointed Logi Chancellor in 1287.

Hauptmann, Gerhart (b. 1862), one of the leading dramatic poets of Europe. A native of Silesia, he devoted himself first to agriculture, then to art, and subsequently to the drama, and has lived in Rome, Berlin, Switzerland, and the United States. Since 1885 he has produced many plays, including,

Hirsch, Baron Maurice de (1831-1806), a financier of remarkable success who amassed an immense fortune, the greater part of which he devoted to philanthropic objects, expending as much as fortune, the greater part of which he devoted to philanthropic objects, expending as much as £3,000,000 in 1891. Founded the Jewish Colonisation Association with a capital of £2,000,000, and a later endowment of £7,000,000 enabled colonies to be established in South Africa, Canada, and Assa Minor. **Hobbest**, John Oliver (1897-1906), born in Boston, U.S., this lady, whose real name was Mrs. Pearl Mary Teresa Craigie, first attracted notice by the clare stear of the property of the property

by her clever story Some Emotions, and a Moral, and subsequently kept pronunently before the public with a succession of stories (and several plays) which ore than bore out her early promise.

Hobbes, Thomas, 1988-1979, was affamous philosophical writer, whose Levathan, or the Matter, Form, and Power of a Commonwealth, appeared in 1651, and roused considerable sensation.

in 1651, and roused considerable sensation.

Hobhouse, Rt. Hon. Chas. Ed. Henry (b. 1862),
Postmaster-General since April. 1914. P.C.: Chancellor of the Duchy of Laureater, 1911-124; M.P. for East Bristol since 1900. Parly. Under-Sec. for India, 1907-8; Financial Sec. to the Treasury, 1908-11.

Hocking, Bllas. K. (b. 1850), a popular novelest, formerly in the Nonconformust ministry; author of Her Benny, The Awakening of Anthony. Were, and countless other fascingting stories.

Hofer, Andreas (1967-1800), a Turnless patrice.

countless, the reasonating stories.

Noter, Andreas (1767-180), a Tyrolese patriot who left an insurrectionary inovernent against the French and Bavarians, but was betrayed and shot by order of Napoleon I. at Mantua.

Rogarth, William (1697-1761), the celebrated engraver and painter who satirised the follies of his time in a series of engravings instinct with character, humour and power. His "Harlot's Progress," of six engravings, was published in 1794, and gamed him immediate faine. In 1733 he produced his equally celebrated "Rake's Progress," a series of eight engravings. These were followed by numerous others, including "Marriage à la Mode," "Industry and Ideness," and "The March to Finchley." He was buried in Chiswick Churchyard.

Hogg, James (179-1835). a Scottlish poet of force

Hogs, James (1770-1835), a Scottish poet of force and originality, who was known as the "Ettrick Shephert." and assisted Scott in collecting the

Border Minstrelsy.

Border Minstrelsy.

Hogg, Quintin (1845-1903), was an educationist and philanthropist who, purchasing the old Polytechnic Institution in 1882, turned it into a popular college, providing efficient instruction in every department of education at moderate rates, and so building up an institution of great utility. He met his death by accidental asphysiation.

Bolbein, Hans [1447-1543], was born at Augsburg, and settled in London in 1530, where he succeeded in gaining the favour of Henry VIII., for whom he painted many portraits, and produced the famous "Dance of Death."

Holden, Sir Isaac (1807-1897), an inventor and manufacturer who achieved fame and fortune in connection with wool-combing inventions. He was in Parliament from 1865 almost to the time of his death, and was made a baronet in 1893. Succeeded by his son, Sir Angus Holden (1893-1912), who was M.P. for the Buckrose division of Yorkshire for several years and became Lord Holden in 1908.

and became Lord Holden in 1908.

Mole, Dean Bamuel Raynolds (1819-1904), educated at Newark Grammar School and Brasenose.

Was Chaplain to the Archbishop of Canterbury in 1883, and Select Freacher to the University of Oxford from 1885 to 1886. In 1887 succeeded to the Deanery of Rochester. He was a busy writer from estiy vears, and dealt with many subjects in a chamful inanner, but it is principally by his delightful 1800 about Roses that he will be remembered.

Holinahed, R. (Ided circa 180), was the author of The Chronicles of England, Scolland, and Ireland, published in 1877.

Holl, Frank (1845-1888), a noted English painter and R.A., who was the son of an artist, and between 1870 and 1880 produced some of the most admired pictures of his time. Among his best-known works are "No Tidings from the Sea,"

"Leaving Home," "Deserted," and "Ordered to the

Holmes, Oliver Wendell (1809-1894), an American doctor and author of great humour and geniality, his Autorest of the Breakfast Table, The Professor at the Breakfast Table, and The Poet at the Breakfast Table are works of infinite humour and quaintness. He was also the author of three novels.

Holroyd, Sir Charles (b. 1800), Director of the National Gallery and former Keeper of the Tate Collection. Himself an able artist and etcher, and a

clever writer on Italian painting:

Bolyoake, George Jacob (1877-1906), an eminent secularist lecturer and author, who was identified with many popular movements, especially Co-operation, of which he was the historian.

ton, of which he was the historian.

Rome, Rev. John (1922-1808), a Scottish clergyman and dramatist, whose tragedy "Douglas"
attained great popularity, but cost him his henefice.

A pension of £300 a year, however, atomed for this.

Homer, the most famous of all epic poets. Is supposed to have been a Greek who lived about 850 B.C.
probably at Chies or Smyrna, and has generally been
regarded as the author of the "Bhad" and the
"Odys-ey," though tradition rather than ascertanced
fact connects his name with those great poems.

Hone, William (1780-1842), w.i. a writer and compiler of several most useful books of reference, including The Every-Day Book, The Table Rook, and The Year Book, valuable for their immense fund of curious information regarding the manners and

customs of former times.

Hood, Admiral (1724-1816), a successful British naval commander, who in 1703 was in command of the Mediterranean fleet, and showed great capacity in that post, taking and occupying Toulon, and cap-turing Corsica among other exploits

Hood, Thomas (1790: 1845), an English poet, who
as a prolitic writer of serious as well as humorous

Mood, Thomas (1790-1845), an English poet, who as a prolite writer of serious as well as humorous poems, stands in his own him unique. Of his seriou verse, "The Song of the Shirt," "The Dream of Eugene Aram," and "The Bridge of Sights," may be citted as the best examples, while his comic poems, notably those of the punning order, are unequalled. Hook, Theodore Edward (1789-1641), an English humorist, whose breezy novels, Gibbert Gurney and Yark Brag, secured him a great reputation. As a young man he held for five years the position of Treasurer of Mouritms. He edited the 76th Bull newspaper, and was the original of "Mr. Wagg" in Thackerser's Vanity Fast.

Hooker, Richard (1554-1600), was Master of the Temple from 1889-1501, and afterwards Rector of Boscombe. Is famed for his great book on Eiclesses, sectal Polity, and, because of his exquisite choice of words, was known as "Judicious Hooker."

Hooker, Bir Joseph Dalton, G.C.S.I., C.B. (1817-1911), one of the most reminent of modein naturalists, and from 1865-1889, when he retired, was Director of the Royal Garden, Kew. Was President of the Royal Society from 1872-1877. His books on the Flora of Britain, British India, and New Zealand are standard works. Order of Merit, 1907.

Horace, or more properly Flacous Quintum Horace.

are standard works. Order of Merit, 1907.

Horace, or more properly Flacous Quintus
Horatius, (65-8 B.C.), the famous Roman satirus
and poet, who was the frend of Virgil, and attained
immortal fame by his "Satires," "Epides," and
"Odes," all of them distinguished for elegance of
thought and dailed with the standard of the standard dailed with t

Horatius Cocles, a legendary Roman hero who-

Horatius Cocles, a legendary Roman hero whowith two brave comrades—according to the tradition incorporated in one of Lord Macaulay's lays, gioriously held the bridge across the Tiber against the Etruscan army in the 6th century until the citizens cut it admit, and so saved Rome.

Ropsley, Samual (1933-1806), a renowned English bishop and scholarly writer on theology.

Horalsy, Sit Yistor (b. 1854), educated at University College Hospital. Has achieved much distinction as a pathologist. Was Fullerian Professor from 1891-1893, and Professor of Pathology at University College from 1893-1895. He was knighted in 1902. Has championed vivisection and temperance reform.

Horton, Rev. E. F. (b. 1854), one of the most

prominent of living Congregational ministers, and a thoughtful and able writer. Has held a pastorate at Hampstead for over a quarter of a century with great Hampstead for over a quarter of a century with great acceptance. He is in much request as a preacher and lecturer, and has been President of the Congregational Union. Is M.A. and D.D.

Houdin, Jean Sugine (1805-1871), the most famous French "illusionist" and sleight-of-hand performance of the congregation of the Congregation

ramous retired musicinas and stegriced and re-former, who frequently appeared in this country. He was rewarded by the French Government for discovering and exposing the tricks by which Algerian priests had long kept up the pretence of miraculous powers to the natives.

miraculous powers to the natives.

**Moufhton, Lord (1800-1885), an English politician and poet. As Richard Monickton Milnes published a inumber of volumes of verse of great delicacy of thought. Was an active Liberal politician for many years, and the friend of Tennyson, Hallam, and Thackeray.

Howard, John (1726-1790). earned celebrity for his philanthropic efforts on hehalf of prison reform, the pursuit of which eventually exposed him to a fatal inver attack in Russia.

ever attack in Russia

Howard of Effingham, Lord, commander of the fleet which defeated the Spanish Armada, 1988, and took part in the capture of Cadig, 1990.

Howe, Ellas (1819-1867), an ingenious American who was the inventor of the first sewing machine, by

who was the inventor of the first sewing machine, by which he made a great fortune.

Howe, Richard. Earl (1726-1790), the British admiral who in 1758 destroyed Cherbourg, and in 1754 won the famous victory over the French off Bress.

Bowalls, William Dean (b. 1837), one of the most eminent of modern American novelists and authors. His best-known works are A Modern Instance, The Rise of Stass Lapham, The Landord at the Lion's Head, April Hopes, and (for English readers) Certain Deliphyth English Towns, published in 1907. He was U.S. Consul at Venice, 1861-1865.

Howitz, William (1796-1870), was a popular English

Bowitt, William (1705-1879), was a popular English author, who, independently and in conjunction with his wife. Mary Howitt, wrote many works of a popular character, such as Homes and Haunts of the English Poets and Visit to Remarkable Places.

Bubert, St., is the patron saint of huntsmen, and was himself an inveterate hunter, until a chance encounter with a stag bearing a crucifix converted him to a religious life. He died in 727 at Liège. His festival falls on November 3rd.

Hudson, George (1800-1871), rushed into prominence in the railway speculation mana of 1843-1845, and by a series of hold "move" made large sunts, becoming known as the "Railway King," and was elected M.P. for Sunderland. In later years his luck deserted him and he lost most of his wealth.

hudson, Henry (1550-1610), was a famous English navigator who discovered the Hudson River, Hudson Strait and Bay, and his two books describing his voyages are of the greatest interest. He lost his

his voyages are of the greatest interest. He lost his ife eventually in the region of his chief explorations, whilst searching for the North-West Passage. Hudson, Bir Gooffrey (1007-052), a court dwarf who was kinglitted by Charles I., and was only 20 inches in height when thirty years of age. He is introduced in Scott's Perert of the Peak.

Huggins, Sir William (1824-1910), one of the most epiment of modern astronomers, who rose to the distruction of admission to the Order of Merit. He was President of the Royal Astronomical Society in 1876 1878, of the British Association in 1891, and of the

Royal Society in 1909.

Bushes, Thomass (1822-180), educated at Rugby, and at Oxford; practised at the Bar, and becawe a County Court Judge in 1882. His best-known works are: 170m. Brown's Schooldays and The Scouring of

the White Horse.

Huge, Saint (1735-1200) was a learned and plous French monk who settled in England and grew into high favour with Henry II., and became Bishop of

Lincoln.

Hugo, Victor (1802-1885), the great poet, dramatist and novelist who headed the Romantic movement in I- ance in the early part of the 19th century and made himself a name of the first eminence by his

various writings. His dramas of "Hernani," "Lucrèce Borgia," "Buy Blas," and "Le Roy s'amuse" were in every sense great triumphs. Among his novels, Notre Dame, which belongs to his early period, and Les Misérables, Les Travailleurs de la mer, and L'Homme qui rit, belonging to his later life and written while he was living in exile, are all works of releated access.

written while he was living in oxile, are all works of splendid genius.

Hallah, John (1872–1884), an English musical educationist who devoted his life to the spread of musical knowledge, establishing singing classes at Exeter Hall, and in many other ways popularising the art. He was also a Government Inspector of Music, and opposed Curweit's Tonic Sol-Fa system.

Hambert I, (1844–1900) was King of Italy from 1878, when he succeeded his father, Victor Enianuel. He was saveshated in July, 1900.

Humboldt, Baron Friedrich Heinrich Alexander vom (1790–1898), the great German traveller

andar von (1709-1856), the great German traveller and naturalist. Spent many years in the interior of South America and Mexico, and afterwards in Central Asia, and his books describing his travels and his various scientific discoveries—especially in geology and natural history—are aumong the most attractive works of the kind ever written.

works of the kind ever written.

Hume, Dawid (1911-1776), the celebrated historian and philosopher whose History of England is a fascinating and comprehenses study, and long held the chief place in linglish historical literature. Hume's philosophical writings were no less famous, and widened the sphere of philosophical thought.

Hunt, Henry (1773-1835), a demagogue politician who was known as "Orator Hunt"; suffered imprisonment for advocating Chartism, and was later returned to Parlianent.

returned to Parliament.

returned to Parisament.

**Hunt, Leigh* (1784-1859), an English poet, politician
and essayist. In 1813 he was fined £500, and sentenced to two years' imprisonment for inbelling the
Prince Regent, and while in prison wrote one of his
damitest poems "The Story of Rimini" and other
works. In later life he was a constant contributor to literature, and from 1847 enjoyed a pension of £200 a year from the Civil List.

a year from the Civil List.

Yunt, Wm. Holman. (1827-1910), one of the
three founders of the Pre-Raphaelite movement, and
an artist who achieved distinction by several remarkable paintings, the chief of which is, perhaps,
"The Light of the World," an allegorical work
symbolising Christ knocking at the door of the human
soul. Another of his great works is "The Finding
of our Saviour in the Temple." Was member of
the Order of Ment. Hunt, the Order of Merit.

Hunter, John (1728-1793), one of the greatest sur-gical operators of his day, and Chief Surgeon at St. George's Hospital. His surgical museum bequeathed to the nation is of great value and interest, and now forms part of the Museum of the Royal College of

Surgeons.

Huntingdon, Countess of (1717-1790), a rich and pious lady who was so impressed with Whitefield's preaching that she devoted much of her fortune to establishing chapels und colleges for the promotion

establishing chapels and colleges for the promotion of the doctrines he expounded.

Huskisson, William** (1770-1830), an English statesman who held office for many years under Peel and in 1828 was Secretary for Foreign Affairs. He was accidentally killed at Eccles at the opening of the Liverpool and Manchester Railway

Russ, John (1450 1315), the celebrared Reformer, was a native of Bohenia and a steadfast advocate of the new redrom. Sentenced to death or recausation.

the new religion. Sentenced to death or recantation, he suffered martyrdom on June 7th, 1415. His death caused a Civil War which lasted for many years.

caused a Civil War which lasted for mainy years.

Hutton, Richard Hols (186-189), an Engl's'
writer who exerted considerable influence in the
spheres of politics and religion. For some years he
was a Unitarian munister, but afterwards connected
himself with the Church of Fingland, and from 186edited the Speciator with remarkable ability.

Huxley, Thomas Henry (1825-1893), an eminent
scientist and author of numerous works covering a
great range of research. After the publication of
Darwin's Origin of Species, Huxley became an ardent
evolutionist. His biological work, Man's Place in

Nature, and his numerous essays, were marked by great vigour and clearness of thought, and gave him a leading position. He held numerous important appointments, was President of the Royal Society making in the Privy Councillor in 1892, and belonged to many learned societies.

many learned societies.

Hyde. Edwd., First Earl of Clarendon. (See Clarendon.)

Hypasta, who lived in the 4th century, was daughter of Theon of Alexandria, and attained great enumence by her lectures on philosophy. She excited the enumty of the monks, who raised an agitation against her, and she was put to death.

Hyndman, H. H. (b. 1842), the founder of the Social Democratic Federation, 1881, and of the newsianer Yuttice, has been an active promaculist

newspaper Justice, has been an active propagandlst and worker in the socialistic cause in many lands. Was the friend of Mazzini and Garibaldi. In 1912 published his Record of an Adventurous Life.

Estahim Pasha (1789-1848), an able Egyptian statesman, general, and viceroy, who, adopted by Mohammed Ali as his son, contributed largely to the success of Egyptian policy during the quarter of a century or more of his influence. His conquest of Syria was a notable feat of generalship. He died a

few months after being appointed Viceroy.

Them: Ik (1828-1900), the Norwegian dramatist, whose works excited a considerable amount of interest m this country because of the singular problems they dealt with, the daring incidents upon which they hinged, and their very original characwhich they hinged, and their very original characterisation. They outraged convention at every point, and occasionally their realism became acceedingly repulsive to English taste, yet there was a certain greatness about them that could not be demed. His clief works were Pere Gynt, The Master Builder, A Doll's House, and Hedda Gabler.

Iotinus, the architect of the Farthenion at Athens, and the temple of Apollo (area 433 B.C.)

Iddesleigh, Earl of (1888-1891), a Conservative statesman of great dignity of character and political sincerity. He was in the House of Commons from 1855 to 1885, when he was raised to the pectage. He was one of the most successful of Tory Chancellors of the Exchequer, and was Foreign Secretary from 1886 to the time of his death.

Innatleff, Genl. Count Nicholas (b. 1832), a

ignatieff, Geni. Count Nicholas (b. 1832), a soldier-statesman, who won distinction in Russian diplomacy towards the close of the 19th century.

Ignatius, St., Bishop of Antioch, who suffered martyrdom at the hands of Tragm 107 A.D., being

martyrdom at the hands of Trajam roy A.D., being condemned to be eaten by wild beasts in the arena.

Ilbert, Bir Courtenay (b. 1841), Clerk of the House of Commons, and tonnerly on the Indian Council, and Parliamentary Procedure.

Illingworth, Percy Holden (1865-1915), was M.P. for the Shipley Division of W.R. Yorks from 1906 to his death, and Chief Liberal Whip from 1918. Son of the late Henry Illingworth and grandson of Sir Isaac Holden. Educated Jesus College, Camb. M.A.T. I. H. (M.A., LL.B.)

Ina, a warrior king of Wessex who reigned in the 8th

century and made many wise laws.

Inga, the Yery Rev. W. Ralph, Dean of St. Paul's since 1911 (b. 1860). Ed. Etc. and King's St. Paul's since 1971 (b. 1800). Ed. P.Ch. and King's Coll. Camb. Assistant Master at Etin, 1884-1888, Lady Margaret Prof. Camb., 1007-1911. Mas published some profound Studies in Mysticism, and is regarded as an apostle of melancholy rather than of cheerfulness,

tian of cheerfulness, Imgelow, Jean (1830-1897), was an English poeters of great gifts. From the early 'saxties to het death, so was frequently before the public with poems, novels and fairy tales, all of high merit.

Ingita, Sir John (1814-1860), was a native of Novae Scotia, and a distinguished English general. During the Mutiny in India had command of the Residency of Luchney to structure of the Park Learney as a Luchney to structure. at Lucknow in succession to Sir Henry Lawrence, and held it until the arrival of Havelock.

Ingram, Rt. Rev. Arthur Foley Winninggton, D.D., Bishop of London since 1001 (b. 1858).
Educated at Mariborough College and Oxford; was
private chaplain to the Bishop of Lichfield from 189;
to 1899; Rector of Bethnal Green 1895, and Canon or
St. Paul's 1897-1001. Among his published works are
Work in Great Cities and Cirist and His French.
Ingres, Jean E. D. (1961-1857), a great French
historical paunter who was elected to the Institute in
1824, and at his death was a Senator of France.

raza, and at his death was a Senator of France.

Innocent III., Pope (infi-rar6), was one of the
most powerful of the long line of Popes who succeeded in bringing all the nunarchs of Christendom
under his sway, including our own King John.

Inverelyde, John Burns, First Baron (182)
igot), was the son of Sir George Burns, who was
associated with Sir Samuel Cunard in the founding of
the Cunard Line of Supress Alex the sections of

the Cunard Line of steamers. After the retirement of his father, Lord Inverciyde became head of the company and conducted its affairs with signal ability

The peerage dates from 1897.

Ireton, Henry (1611-1651), the Cromwellian general, was the Protector's son-in-law. He was one of the judges at Charles's trial, and served in Ireland a-

Lord Deputy, dying during the slege of Linearick.

Living, Edward (179-184), a Scottish Divine wighton the state of the most notable preachers in London. Many of his views were in advance of those of his co-religionists,

where in advance of those of his co-religionists, and towards the close of his career a charge of heresy was brought against him.

Irwing, Sir Henry (1833-1905). The most prominent English actor of the close of the Victoria v period. His first appearance in London was madin 1866, and his first astruct metropolitan successored at the Vaudeville Theatre in 1870, when appropriate as Dichyle Grand in "The Type Roses" in 1866, and his first astruct metropolitian successored at the Vaudeville Theatre in 1870, when aspopered as Digby Grand in "The Two Roses. From 1871 he was connected with the Lyceum Theatre, first with Mr. Bateman, and from 1878 under his own management. His record at that theatre covered a brilliant series of production. "The Bells was the first triumph, then followe! "Charles I." and "Eugene Aram," and later in number of Shakespeareni inopersonations, in some a which—notably "Shylock" and "Hamlet" Irvi gwas really great. Anong the original productions credited to him may be mentioned Tenny son "Queen Mary" and "Becket," "Ravenswood. "Olivia," "King Arthur," and "Robespierre." "Living, "Washington (1783–189), a writer it charming stories and miscellaneous works whith you will be an death of the Atlantic. Among his biographical books may be mentioned Lives of Goldsmith, Columin. Mahomed and Washington. It was in his Taket y a Transfer and his shorter sketches, however, that it was most successful. His story of Steepy Hollon. and his Kap Van Winkle are both ministable productions.

productions.

productions.

Issaels, Rufus, Sir. (S:e Reading, Lord.)

Issaelia of Castille (145t-1504), reigned jointre with Ferdinand V, her husband. During their thirty years' sway Spann was unted as a single monarchy, and achieved the height of its greatness the discovery of America, the Conquest of Granada, and the expulsion of the Moors from Spann being among the events with which Isabella was associated.

Ialip, Simon (d. 1366), a noted ecclesiastic of his day, who was Archbishop of Canterbury from 1349 to the

tune of his death.

time of his death.

Islington, Lord, formerly Sir John Dickson
Poynder (h. 1866), Governor of New Zedland 1910-12.

M.P. for Chippenham Division, 1902-10. Made
Chairman of India Public Service Commission, 1912.

Ismail Pasha (1892-1893), grandson of Mohammerl
Ah, was a man of modern ideas and great public
spint, whose policy rendered Egypt practically
independent of Turkey, the Sultan confirming lum
in the position and title of Khedwe in 1873. It was,
his adoption of the idea of the Sucz Canal that
enabled that work to be successfully carried out. enabled that work to be successfully carried out. By teckless extravagance he involved himself in difficulties, entailing the sale of his Suez Canal

shares to England, the establishment of the dual control of England and France, and his won addication in 1879, when his son Tewfit succeeded.

Jamasy, Thomas Hampy (1837–1899), was an eniment Liverpool ship-owner, and founder of the White Star Line

Esvolsky, Baron (b. 1858), Russian Ambassador to France; was Foreign Minister in 1006. Visited

London in 1908

Ito, Prince (1838-1909), one of the most enlightened statesmen in Japan. Was four times Premier, and statesmen in Japan. Was four times Premier, and contributed in no small degree to the building up of his country's commercial, inilitary, and naval

of his country's commercial, inflitary, and havel greatness. Several times insted Europe, and was in London for a year when a young man of twentynes. Assessmated in 1905.

I van the Great (140-1505), the first Czar of Russia, succeeded in bringing the scattered provinces of Muscovy under one supreme governmental control, and put an end to Tartar rule. There was a good deal of the barbarian and tyrant in Ivan's composition, but he had views in advance of his time and country.

time and country.

time and country.

Iveach, Lord (b. 1847), is a member of the well-known Guinness family of Dublin brewers, and a trother of Lord Ardiaun. A man of immense wealth, and a notable philanthropist, gave half-amilion sterling equally between Dublin and London for the building of improved dwellings for the poor, and celebrated the visit of the King and Queen to Ireland in 1903 by giving £50,000 to irish hospitals.

I was, John (1757-1776), a promising young numis-matist who published a useful work entitled Remarks

cn English Couns, the year before his donnise.

1 vory, James (1765-1842), a clever Scottish mathematician who obtained considerable recognition in :us day.

Izaake, Richard (1624-1700), a careful topo-graphical writer, whose work Antiquaties of Exeter, published in 1677, is still referred to.

Jackson, Andrew (1767-1815), an American General who was twice President of the United States, and one of the most astute holders of that position.

College of the most actual holders of that position.

Acckson, T. J. (1824-1893), Dopularly known as
"Stonewall Jackson," was the most brilliant general
on the Southern side in the American Civil War.
Was accidentally killed by his own men at the Battle
of Chancellorsville. The term "Stonewall" was
applied to him because of his dogsed resistance at the first Battle of Bull Run.

Jacobs. W. W. (b. in London, 1863), is a novelist of

a quaint and peculiar humour, whose stories and cherches of East-end river side hite and characters are mmitable. Mr. Jacobs was for some years a clerk in

the Civil Service.

Jacquard, Joseph Marie (1752-1834), a French mechanic whose Jacquard loom provided a new and effective method of weaving designs in textile fabrics,

mechanic wrose racquard icom provider a new and effective method of weaving designs at exitle fabrics, and was an invention of the very first rank.

James I. of England (1956-1625) was the sixth Scottish sovereign of that name and the son of infated Mary Stuart. He succeeded to the English throne in 1603 on the death of Eluzabeth by virtue of his descent from Henry VII. Numerous plots were formed against him and his favourities and Government, including the Gunpowder Plot of 1605. He persecuted the Puritans, was generally in conflict with his Farliament, granted many monopolies, and saw the Authorised Version of the Bible published.

James II. (1633-1701) was King of Engiand from 1685-1686, succeeding his brother Charles II. His reign was short, but his mistakes many. The Declaration of Indulgence, the Persegution of the Bishops, and other high-handed proceedings discusted his people, and he ignominatously severed his connection with England by flight to France in December 1688, making way for William III. and his more vigorous rule.

James, George P. R. / 801-1860), one of the most

prolific novelists of his time. Some of his works enjoyed a good deal of popularity, but they contain little real viality, being modelled partly on Scott and partly on Dunuss, without the strength of either. His Ricketieu was the first and also the best of his over 200 stories. He was appointed historiographer royal by William IV. and was British Consul in Venice at the time of his death.

Venice at the time of his death.

James, Henry (b. 1833), an American novelist who
has produced a number of notable stories, remarkable
for their intellectual subtlety and careful characterisation. For the last thirty years he has resided
mostly in London. His best-known novels are The
American, Dairy Miller, The Rostomans, The
Portrait of a Lady, and What Massis Saw. In
1906 he revisited his native land, the result of which
was The American', Senic thorn!. Since then he has was The American Scene (1977). Since then he has published Finer Grain and The Outery.

James of Hereford, Lord (1888-1911), held many

distinguished pocitions, and in the last Salisbury Government was Chancellor of the Duchy of Lancaster. He was formerly a Gladstonian, and as such served as Solicitor-General in 1873. Attorney-General in the following year, and again from 1880-1885. He then broke with his old chief, declined the Lord Chancellorship, and became an active member of the Liberal-Unionist Party, from which, however, he separated on the Taiff Question.

of the Liberal-Unionist Party, from which, however, he separated on the Tariff Question.

Jameson, Anna (1794-1800), a writer on art subjects whose works were held in high esteem and showed an acute perception of artistic details. She wrote, among other works, Sacra and Legendary Art. Lives of the Larly Italian Painters, and Legendary of the Madonina.

Jameson, Sir Leander Starr (b. 1853), was for many versa one of the notable men connected with

many years one of the notable men connected with South Africa, and was the close friend of Cecil Rhodes. It was he who led the famous raid on the Transvaal in December, 1895, and for that escapade sulfered ten months' imprisonment in London. Previous to that was Administrator of Rhodesia. In 1904 was elected Premier of the Cape Parliament, but resigned in 1908. Was present at the Impendicular tension of the Conference in 1909 in London. Retired from political life in 1012.

Januarius, Saint, was Bishop of Benevento in the artuarius, saunt, was monop of nonevento in the 3rd century and suffered martyrdom under Diocettan, A.D. 3rd. His anniversary was September 19th, on which day two plials of his blood, preserved in the Cathedral of Naples, are supposed to possess the miraculous power of hquefaction and are carried in procession.

Jaures, Jean (b. 1850), the leader of the French socialists in the Chamber of Deputies, of which he has been a member since 1885. A powerful speaker and writer, and edited a History of Socialism.

and writer, and edited a History of Socialism.

Jayne, Rt. Rev. Francis John, D.D., Bishop of Chekter since 1889 (b. 1845), was educated at Rugby and Oxford; ordained, 1870; Tutor Keble College, 1876-1879; Preacher at Whitehall, 1875-1879; Vicar of Leeds, 1880. Is a temperance reformer, and favours a modification of the Gothenburg system.

Jebb. Professor Sir R. G. (1841-105), born at Dundee, and was M.P., for Cambridge University from 1891 up to the time of his death. In 1875 he was appointed Professor of Greek to the University of Clasgrow, and in 1880 was elected Regins Professor of Greek at Cambridge. He was the author of numerous important works, mostly on classical subnumerous important works, mostly on classical sub-

numerous important works, mostly on classical subjects, and was a member of the Order of Mertil.

Jefferles, Richard (1848-1887), an English naturalist,
who, between 1873 and the time of his death, wrote
some of the most beautiful descriptions of natural
scenery and the customs and habits of the rural
world that we possess. His Gamekeeper at Home
and The Life of the Fuelds are books of great power
and symmetry.

and sympathy some retains are boost of great power and sympathy some in the state of the first state of the

Jefferson, President Thomas (1743-1826), took an active part in promoting the American Revolu-tion, and drew up the Declaration of Independence. He was twice President of the United States.

Jeffrey, Francis Lord (1773-1850), was one of the founders and first editor of the Edinburgh Review, A writer of great culture and a lawyer of emmence, who was at one time in Parliament and became

who was at one time in Parliament and became eventually a Lord Justice of the Court of Session.

Jaffreys. Judge (1648-1689), won for himself unenviable notoriety by his harsh and cruel judgments, when he held what is known as the "Bloody Assize," following the suppression of the Monmouth Rebellion. He was made Lord Chancellor, but fell into disgrace after the abdication of James II., and was committed to the Towar and there died. to the Tower and there died

to the Lower and there then

Jenghiz Khan (1762-7227), the famous Mogyl ruler
who twice conquered China, forced the Turks into
their present European confines, and effected the
union of the leading Mongolian races.

union of the leading Mongolian races.

Jenkins, Robert, an adventurous captain of a West Indian inerchantinan, whose report of an alleged attack upon his ship by Spaniards and their depriving him of his ears, which he produced in prof, led to the war against Spain in 1739.

Jenkinson, Anthony, a great Flizabethan trader and traveller, whose virious expeditions to the Levant, Khin a Bokhara, and Russia led to the formation of the English Muscovy Company and the opening up of the 1 evant trade.

Jenner, Edward (1749-1823), an English physician who became celebrated by his discovery of the vaccination system of alleviating smallpox, which has been of such incalculable benefit to mankind. Parhament made him grants amounting to £30,000.

- been of such incalculable benefit to mankind. Parmament made him grants amounting to £30,000.

 Jenner, Sir William (1875-1808), for many years Physician in Ordinary to Queen Victoria, and one of the doctors attending Frince Albert in his fatal illness in 1801, and King Edward when Prince of Wales, during his attack of typhoid in 1891. Sir Wilham was created a Baronet in 1808, and from 1801 to 1808 was President of the Royal College of
- Jerome, J. K. (b. 1850), a clever journalist and writer, who mide his first states with his humorous book. Three Men in a Foot. He founded The Islan and To-Day. His play "The Passing of the Third Floor Back," was a distinct success.

and record, his play the raying of the labra Floor Batk, was a distinct success, gain of the stheeming whose Latin translation of the Scriency, whose Latin translation of the Scriptures. The Valgate "I made him famous. He died at Bethlehem Jerroid, Blanchard (187, 187), a perm star and author who whose a live of Authorn III. and a number of the yand in recent of lat fall it. Douglas Jeriold, in the ed to she per Layid. Art. Spart.

Jerroid, Douglas (188-187), dramatist and humourist, who enjoyed a long carrer of success by his contributions to Fronto including "Mis, Caudles Curram Lectures"); his novels, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best, and his plays, of which Sc. Gade and Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays, of which Sc. Gade and Sc. Tamer was his best and his plays, of which Sc. Gade and Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays, of which Sc. Tamer was his best and his plays and his plays

Jervis, Admiral Sir John, Earl of St. Vincent (174-1853), wor his eardon by his victory over the Spaniards of St. Vincent, 1767. He had previously seen active and noteworthy service at Caebec and in the West Indies

Quebec and in the West linkes.

Jessop, Rev. Canon Augustus (1821-1914).
Chaplain in Ordinary to Using Edward VII from 1802-10. Rector of Scarning, 1879-1911. Author of numerous works, upon instorted subjects, and on country life in olden times, of which he has given in some illuminating pictures full of sympathetic charm.

Jevons. Professor W. Stanley (1875-1826), a political economist and logician of great distinction, who published a number of works that did much to advance the account of which he was such a legisted.

advance the science of which he was such a devoted student. Drowned at Hastings whilst bathing. Joachim, Dr. Joseph (1831-1907), a German violinist and composer, who came to England in 1844 and

became prominent in musical circles. For many

years he was the heart and soul of a splendid series of classical quartettes at our popular concerts, and the greatest violinist of his time.

the greatest violinist of his time.

Joans of Ewe (1472-1431), the remarkable girl whose heroism and devotional ferrour enabled her to inspire the French soldiers with such enthusiasm that they drove the English out of Orleans, and enabled Charles to be proclaimed King at Rheims within two months of her first appearance among them. She was captured by the English in the following year, and was burned as a heretic in Rouen. Her beatification took place in 1900, and she has been an inspuring theme to many poets and writers.

John, St., the Empirical (executed A.D. 28), the forenumer of Christ.

John, St., the Ewangaliat, the son of Zebedee retired to Patinos after the Cruchixon, but returned from exile to Epiesus later, and there died at a great age, probably circa A.D. 20

age, probably cit ca A.D. 99

John, surnamed "Lackland" (1767-1216), King of England from 1799 to his death at Newark after deposition by the Barons in 1216. One of the one of English, monarchs. but whose refer detested of English, monarchs.

detested of English monarchs, but whose reign stands out large in history because of his having granted, under compulsion, the Magna Carta, England's great bulwark of hiserty.

John of Gaunt, Duke of Lancaster, son of Ldward III, and father of Henry IV., was one of the most powerful English nobles, and was more or less concerned in the leading events of his time. In War Tyler's relievilion he had his pulser in the Sawie

concerned in the feating events of his time. In War Tyler's rebellion he had his palace in the Savoy destroyed and was long held in popular hatred.

Johnson. Dr. Samuel (1709-1784). He great lexicographer and writer, who for a number of years was the most prominent breary man in England In Dunonary was published in 1755, before which he had attained enthence by several works, including the Vanity of Human Winker. His Raseda, appeared in 1765, and for two years he published The Idace, a collection of essays after the style of the Spectator. His Invest of the Poets appeared in 1781, He was greatly knowned during his hie, enjoyed a pension of £300 a year from 1762, at his death was burned in Westinhister Abbey, and had the best biography in the language written upon him by James Boswell. James Boswell.

Johnston, Sir Harry H. (b. in London, 1858), has been a daring and successful explorer, and founded the British South African Protectorate in 1889. Commander in-Chief for the Uganda Protectorate. and has led scientific expeditions into the interior of Africa. Is the author of many valuable works of travel and observation. Published in 1910 a History of the Butish Empire in Africa.

Jokal, Maurus (1825-1934), a distinguished Hungaram novelet, many of whose works have been translated into English, among them A Modern Midas and Black Diamonas.

Jones, Henry Arthur (b 1851), was in commercial life for some years and then took to play-writing, achieving his fast distinct success in The Silver achieving his first distinct success in "The Silver King." Among his other plays may be mentioned "Sants and Suniers," "The Middleman," "The Liars." "Joseph Entangled," "The Hypocries," and "Mary Goes First," the latter produced in 1913 Jones, Inigo (1573-1652), a noted architect who became known as "the Figush Pallado," and built.

among other famous structures, the Banquering Hall at Whitehall and the gateway of St Mary's at Oxford, He was a Royalist, and suffered severely in the Civil War.

Jones, Paul (1747-1792), was a Scotsman, who early in life took to the sea, and during the American Wir of Inder-endance communited various ships on behalf of the Colonists, and was most daring in his onslaughts upon British vessels—He died in Paris

Jonson, Ben (1573-1037), a friend of Shakespeare and one of the great poets and dramatists of his age.
Was Poet Laureate from 1659. His best plays are
"Every Man in his Humour," and "The Alchemist"
He was buried in Westminster Abbey.

Josephina, Empress (1763-1814), was the wife of Napoleon I, until he divorced her in 1809 and married Maria Louisa. Josephine had previously been married to Vicomte Alexandre Beauharnais, by whom she had two children.

had two children.
Josaphus Flavius (37-circa og), a Jewish historian
whose History of the Jewish War and Antiquities
of the Jewis contained much valuable historical
evidence bearing upon Biblical history. He was
ommander of the Jewish army, but was captured by
Vespasian, who afterwards befriended him.
Joubert, Petrus Jacobus (1833-1900), the Boer
statesman and general, who twice contested for the
Presidency of the Transvaal with Kriger, and rendered good service in the field at Majuba, in the
Jameson raid, and in the subsequent war, being
Commandant-General in Natal.
Jowatt. Professor Benjamin (1817-1804), an

Jowett, Professor Benjamin (1817-1893), an eminent theological writer of advanced views, who was one of the contributors to the famous Essays and Reviews published in 1860. Was Master of Balliol from 1870 to the time of his death, and attracted the

from 1890 to the time of his death, and attracted the devotion and esteem of many eminent people. Jowatt, Rev. J.JH. (b. 1864), successor to Dr. Dalo in the pastorate of Carr's Lane Chapel, Birmingham. A very powerful preacher, and the Chairman of the Congregational Union in 2005. In January, 1921, accepted the ministry of the Fifth Avenue Presbyteman Church, New York.

Julian (331-262), was Roman Emperor for the last two years of his life, during which period he was an avowed Pagan, though previously he had professedly been a Christian. Hence his title of "Julian the Apostate." He was slain by an arrow during an expedition against Persia.

expedition against Persia.

expedition against Persia.

Julius Gemar. [Sec Gessar, Julius.]

Junot. Androche. Duo d'Abrantàs (1777-1873). Was one of Napoleon's great generals and was brilliantly successful until defeated by Wellington at Vimeria.

Justinian I. (483-565), was the Roman Emperor of the East whose faine rests chiefly on his laws. His corpus Jurus Cevilus remained the accepted textbook of Roman Law to the end of the 9th century, and is still the most important of all monuments of unsurvidence. He rezuned from say to 6th

of junsprudence He reigned from 527 to 565.

Juvenal (60-140), the famous Roman poet and rhetorican of the age of Trajan. His sixteen celebrated "Satires" are the finest in classical literature.

Kant, Immanuel (1724 1804). German scientist and philosopher whose Critique of Pure Reason, published in 1871, was the subject of fierce discussion, and involved him in trouble with the Prussian Government as to his religious behef. His speculations and the transcendental theories he worked out revealed a marvellous capacity of mind, and his works were of immense influence in shaping the philosophical thought of the 18th and 19th centuries.

Matsura, Marquis (1849-1913). Japanese states-man and general, very sincessful in a march through orea to Manchuria, was under Oyana Vice-linister of War, and Prime Minister 1907-6, and incool. Achieved solid reforms in the Japanese

army.

Kaulbach (1805-1874), an eminent German painter
who was patronised by King Ludwig of Bavarla,
and painted many notable works for that monarch.

Kay-Bauttleworth, Bir James (1804-1877), a
native of Rochdale and a distinguished promoter of
100ular education. He was the first Secretary of
the Committee of Council on Education (1893-1849),
and devoted his life to the improvement of the condution of the people

and devoted his life to the improvement of the con-dition of the people. **Kean, Charles John** (1811-1868), an English accom-manager, son of the tragedian, Edmund Kean, Charles Kean married Ellen Tree, and in the fifties played with her in a remarkable series of spectacular revivals at the Frances's Theatre in London.

Kean, Edmund (1787-1833), one of the greatest tragic actors in the history of the British stage. For time he carried all before him, but his later years were dimmed by excesses and he died in poverty.

Meats, John (1795-1821), the great English poet who though dying at the early age of twenty-five produced number of poems which in richness of imagination and beauty of thought are not excelled by anything in the language. His "Odes," his two poems, "Isabella" and "The Eve of St. Agnes," together with his blank verse fragment "Hyperion," are exquisite in form and expression and marvellous

are exquisite in form and expression and marvellous as the production of one so young.

Keble, John (1792-1866), an English clergyman and poet whose "Christian Year," published in 1827 is one of the most notable works of its class. Keble College at Oxford was incorporated as a memorial to him, he having been ten years Professor of Poetry at

him, he having ocen ten years rrotessor or rocty at the University.

Reeme, Charles (1823-1891), one of the most talested of the Panch artists, who from 1831 to his death was contantly represented by drawings of irresistible humour in that journal.

Reitie, John Soett (b. 1840). Secretary Royal Geographical Society, author of The Partition of Africa, edutor of The Statesman's Year-Book and of the Geographical Journal.

Relyin, William Thomson, Lord (1824-1908).

Kelvin, William Thomson, Lord (1824-1908), the famous scientist and inventor. Was born at Belfast, and after a course of study in Paris, London, and elsewhere, introduced the dynamical theory of liest in a paper read before the Royal Society of Edinburgh. Shortly afterwards he interested himself in submarine telegraphy, and invented numerous important improvements, also doing splendid work in the direction of electrical invention. Altogether he covered a vast field and earned a world-wide reputation. He was knighted in 1866 and raised to the peerage in 1892, and was a member of the Order Camble. Fairny (1800-1801), was a noted actress in

of Merit.

Kemble, Fariny (1809-1893), was a noted actress in
the early part of the 19th century. After several
years of success in this country she went to America
and resided there for the greater portion of her after
his, devoting herself mainly to literary work. She
was the daughter of Charles Kemble [1775-1844), who
was also a celebrated actor, associated in many
appearances with his brother John Philip Kemble
and their talented sister Mrs. Siddons.

Karphla, John (1872-1872)

Kemble, John (1807-1857), was a distinguished writer, who studied the Anglo-Saxon period in great detail, and published The Anglo-Saxons in England, a work which holds a permanent place in English historical literature. He was the son of Charles

Kemble, the actor

Kemble, John Philip (1757-1823), was a famous tragedian, and for many years manager of Drury Lane Theatre in London. He was brother to Mrs. Siddons, who first played with—and overshadowed. him in 1783. He took over the management of Covent Garden in 1802, and remained in charge there till the building was destroyed by fire six years later On the restoration of the theatre in the year following occurred the famous O.P. riots, which rendered John

occurred the tamous U.F. riots, which rendered John Philip Kemble for a while unpopular. He retired in 1817, and died subsequently at Lausanne.

Kempenfeit, Admiral Richard (1718-1782), an English naval officer who saw distinguished service, and sank with his ship the Royal George off Spithead, through a shifting of the guins when refitting which through a shifting of the guns when refitting, which caused the vessel to capsize. Some six hundred of

caused the vessel to capsize. Some six hundred of the ship's company perished with their admiral.

Memple. Thomas & (238-2471), a monk of the St. Augustine order, whose life was mainly spent at a monastery near Zwolle. He was the author of The Institution of Christ, a work which has been translated into all languages, and forms a devotional course which is highly valued.

Ren. Thomas (1637-7711), was one of the seven bishops sent to the Tower by James II. for declining to read the Declaration of Indulgence. Is romembered in these days mostly by some beautiful hymns that he work.

hymns that he wrote.

Mennion, Ra Rev. Geo. Wyndham, Bishop of Bath and Wells since 1894 (b. 1845), was vicar of All Saints' Bradford, (1876-1889), and Bishop of Adelaide from 1882-1894. Kent. Edward Augustus, Duke of (1767-1880). was the fourth son of George III. and father of Queen Victoria.

Queen Victoria.

Epiler, Johann (1871-1630), a renos ned German astronomer, who made numerous discoveries in regard to the metions of planets, which he afterwards published. The system he formulated received the name of "Kepler's Laws."

Epplal, Augustus, Viscount (1795-1796), an Engrish admiral, second son of the second Earl of Albemarie, Commander of the Fleet at the abortive battle with the French in the Channel in 1798, for which he was court-martialled, but, hemp acquitted, became First Lord of the Admiralty in 1792.

11dd. Benjamin (b. 17850), a prominent writer on social philosophy. In 1894, he published his Social Evolution, the result of ten years' research, and has more recently written the Principles of Vectors Civilisation. Herbert Spencer Lecturer at Oxford University, 1906.

University, 1908.

Kidd, Captain William (circa 1660-1699), was a Kidd, Captain William (circa 1660-1690), was a famous pirate who, taking advantage of an appoinment to the captaincy of a British ship sent out for the suppression of piracy, engaged in numerous piratical expeditions under cover of the English flag. He was hanged at Execution Dock in London after a sensational trial at the Old Bailey for piracy and the murder of one of his crew.

Singlake, A. W. (1800-1891), achieved celebrity as a writer by two works of a very different character—Eothen, a charming record of travel, and his History of the Crimean War, in eight volumes. He was in Farilament from 1852 to 1868.

of the Crimean War, in eight volumes. He was in Parliament from 1853 to 1868.

Kingsley, Charles (1819-1875), an English clergyman and novelist who gained much popularity by his numerous novels, including Hypana, Westward Hol and Hereward the Wake. He was an influential lender of Christian Socialism, a poet of some ability, and a Canon, first of Chester and later of Westminster.

and a Canon, first of Chester and later of Westminster.

Kingaley, Henry (1890-1896), a younger brother of
Charles Kingsley, and one of the popular novelists of
his day. His Raventhoe showed exceptional gifts.

Kingsley, Mary (1802-1000), niece of Charles
Kingsley, was an observant traveller who wrote some
notable books relating her experiences in West
Africa, when that regrou was little known.

Kipling, Rudyard (b. 1869), poet, novelist, and
miscellaneous writer. Made himself celebrated while
yet a youth by some exceedingly clever and characteristic sketches of Inden hide writers for the most

yer a yount by some raccountry store and thanker teristic sketches of Indian life written for the most part while performing journalistic duties in India. He subsequently settled in London and produced a remarkable succession of stories, sketches, ballada, and the subsequently settled by intense wooner and indiremarkatus succession of stories, sections, handers and poems, all marked by intense vigour and individuality, and now and then revealing a vein of patriotic sentument which greatly stirred the national pulse. In 1907 he was awarded the Nobel prize.

Kitchener of Khartum, Earl (b 1850), entered the Army in 1871, and has since had a brilliant and Kitchener of Khartum, Earl (h. 1850), entered the Army in 1871, and has since had a brilliant and successful career in nearly all parts of the world where British soldiers have signalised themselves in recent years. In Cyprus, Figypt, India, and South Africa he has done inemorable work, and from 1902 to 1909 was Commander-in-Chief in India. For his services against the Khalifa he was raived to the peerage, and accorded a grant of £30,000; and for his vigorous work during the campaign against the 180ers received his viscounty and a further grant of £30,000. In 1917 succeeded Sir Eldon Gorst as British Agent and Consul-General in Egypt. On the outbreak of the war with Germany (Aug. 1914) he was made Secretary for War, and his splendlid work in that position has won universal admiration.

Mitto, John (1804-1854), a noted Eng 22h writer on Biblicial subjects, whose Cyclopadia of Biblicial Literature, Pictorial History of Palestine, and other kindred works have found much favour.

Kneller, Eir Godfray (1647-1723), the most celebrated portrait pather of his day in England, who enjoyed the patronage in succession of Charles II., James I., William II., Anne, and George I. He painted the portraits of the members of the Kik-Cau Club, and was buried in Westmiaster Abbey.

Knight, Charles (1797-1873), was one of the most active spirits in the popularising of literature in the

first halr of the 19th century. His Penny Magazine, Penny Cyclodentia, and many other cheap works of an instructive and entertaining character were sold in immense numbers. He was also the author of a popular History of England.

Rnollys, Viscount (b. 1838), was for many years Private Secretary to King Edward VII., and held a similar position under the present King up to 1913. He was Gentleman Usher to Queen Victoria from 1858 to 1920.

1868 to 1901.

Knowles, Eir James (1831-1900), founder and editor of The Nineteenth Century and After, before the advent of which he had edited the Contemporary, and been an architect

acvent of which he had cented the Commissionary, and been an architect.

Knowless, Bharldan (1784-1868), was a British dramatist whose plays were at one time in great vogue. The best known are "The Hunchback," "The Love Chase," and "Vigninus."

Knox, John 1505-1578), the famous divine and Reformer, who stirred Scotland to mighty religious impulses in the reign of Mary Queen of Scots, whom he holdly denounced as a Fapist and a Jesebel. The Regent Morton, as John Knox was laid in his grave at Edinburgh, exclaumed, "There lies he who never feared the face of man."

Knox, Rt. Rev. Edmund Erbuthmot, D.D. Bishop of Manchester since 1909 (D. 1849). Educated at St. Paul's School and Oxford; Fellow of Merton College 1869, vicar of Aston 1891, later hon. Canon of Worcester and Bishop Suffragan of Coventry, and Archdeacon of Birmingham.

Roch. Robort (1843-190), the most poted bacterie-

Rooh. Robert (183,-1910), the most roted bacterio-logst of the time, whose discoveries in connection with the bacillus of tuberculosis have borne such good fruit. A member of the Sanitary Commission at Berlin, and Director of the Institute of Infectious at norm, and Director or the Hastine to infections. Discuses, he also clovely studied the causes of Asiatic cholera and of bubonic plaque, with results that have greatly widened knowledge on these subjects.

Komura, Count Jutaro (1853-1911), the astute diplomatist who advised the Japanese Generalissimo during the war with China, and was Governor of

during the war with China, and was Governor of Manchuna during the first Japanese occupation Educated un the United States, into the Ministry of Justice at Tokio at an early age, and later was the Mikado's Minister at Washington, and later was the Mikado's Munister at Washington. Seoul, and Pekn successively, returning to Japan to take charge of Foreign Aflairs in 1900. He acted with great shrewdness through the war with Russia, and came as Ambassador to Britain at the termination of Viscount Haysish's term of office in 1906-1908 Kosatusko, Thaddeus (1756-1817), a Polish general and patriot who achieved great distinction in 1794 by his gallant leading of the Polish revolutionary forces against Russia. After his defeat and imprisonment he resided abroad, and died in Switzerland. Kossuth, Louis (1802-1894), a Hungarian patriot and leader, who in the struggle for his country's fredom in 1849 was for a time successful, but ultimately

dom in 1840 was for a time successful, but ultimately had to acknowledge defeat, and fied first to Turken and afterwards to England, where he lived for some years. He died in Turm at the age of 32, and was burled at Pealt, the eccusion being made one of

national demonstration.

Rotsebue, R. F. F. Von (1767-1819), was a popular German dramatist, many of whose plans were translated into English and performed in this country with success, amongst them "The Stranger."

country with success, amongst them "The Stranger."
He was in the diplonnatic service, and long resided in
Russia. After a varied career, he was assassinated
by a German student at Mannheimas "a betrayer of
the Fatherland." He wrote nearly 300 plays.

Rropotkin, Prince Petar (b. 1849), a geographer
and explorer, who after a distinguished career in
Russia, his native country, was imprisoned for favouring the political action of a working men's association,
but escaped to England. Since then he has written
many important books on socialistic and geographical
subjects. subjects.

Eruger, Paul (1825-1904), President of the Trans-vaal Republic from 1831-1900. Filled a conspicuous place in South African history. In the various dis-putes with England he showed both obstinacy and want of perception. After Majus he altogether

underestimated Greet Britain's real strength, and came to believe that in a contest with England the Transvaal would, either by itself or with assistance on which he counted, defeat Great Britain. The penalty for this mistake had to be paid. The Pransvaal became a British colony along with what had before been the Orange Free State and is now the Orange River Colony. Mr. Krüger ended his days in Holland. Permission was given to transfer his remains to Fretoria and he was buried there, being accorded the honour of a public funeral.

Krupp, Althred (1812-1887), the famous German engineer, founded the great gun factories at Essen, which are the largest in the world. By his introduction of the Bessemer plan of casting steel and the steam hammer into Germany, he brought about an important development in heavy breech-loading guns, and built up factories which employed at the time of his death 20,000 workmen, whereas the forge over which m 1848 he first obtained control at Essen was manned by but three sinits.

Kubalik, Johann (b. 1880.), an Austrian violinisthes of a market gardener at Miehle, near Prague—who from the age of twelve began to play in public, and is one of the most renowned instrumentalists of the day.

the day.

Rublai-Kham (1216-1294), a famous Mogul emperor
and grandson of Jenghiz Khan. He greatly extended
the Mogul empire by conquest, and lived us unparalleled splendour.

Secondary of the leading

paralleled splendour.

Kuroki, Genaral (b. 1845), one of the leading Japanese generals, who won much distinction in the China-Japanese War, and still more when in command of Japanese forces against Russia.

Kuropakin, Genaral (i. 1848), Commander of the Forces of the Czar both before and during the Russiapanese War. He was on the General Staff before he was 56, made Chief of the Assauc Bureau at 50, Major-General at 54, and Skobeleff. Chief of Staff in the Russo-Turkish War. The failure of the Russian arms against Japan was a serious blow to his reputa-tion, and after Mukden he was recailed.

Kuyp, Albart (1605-1691), a nuch esteemed Dutch landscape painter, examples of whose work are to be found in the leading European galleries.

Lablache, Luigi (1794-1868), a famous bass singer and actor, who for many years held a chief position in opera in the capitals of Europe, and was especially popular in London. He for some time held the position of singing tutor to Queen Victoria.

Labouchee, Rt. Hon. Heny, P. C. (b. 1831-1912), was in the diplomatic service from 1867; then became connected with journalism; was in Paris during the Siege, and wrote the Diery of a Research Revident. connected with journalism; was in rain during the Siege, and wrote the Diarry of a Bessegat Resident; subsequently joined Edmund Yates in starting The World, and later founded Truth. Represented Northampton from 1880 to 1906, and was made a Privy Councillor on his retirement. His Life was published

in 1913. La Chaise, François de (1624-1709), a Jesuit who was the favourite and Confessor of Louis XIV., and it was after him that the famous Père Lachaise

cemetery in Paris was named.

Lacordaire, Jean Baptiste (1802–1861), was a

Lacordaire, Jean Bapliste (1800-1801), was a leading character in the religious developments in France from 1830 onward; both as a preacher and a writer he attained great celebrity.

Latayste, Earquis de (1737-1834), a celebrated soldier and patriot who fought on the side of the colonists in the American War of Independence, and, afterwards returning to France, was made Commander-in-Chief of the National Guard, and during the Revolution was very agrive, helping later in placing Louis Philippe on the throne.

La Fontaine, Jean de (162-163), the celebrated Franch poet and fabulist. His fables have been translated into all languages, and are unique.

Lagrange, Joseph L., Comte (1735-183), was a noted Franch astronomer and mathematician, who

was ennobled by Napoleon I. for his contributions to science. His work on Analytical Mechanics is a standard tractise.

Lalande, Joseph G. L. de (1732-1807), was a famous French astronomer and director of the Pans Observatory. He founded the Lalande yearly prize for the best astronomical work or observation and wrote a well-known treatise on astronomy.

Lamarck, Chevaller de (174-1829). A French naturalist who devoted himself with much success to the study of zoological and botanical science. His chief work was the Histoire Naturelle des Animaus sens Verabres. sans Vertebres.

sens Vertibres.

Lamartine, Alphonse (1790-1869), a French writer and statesman who was prominent in the Revolution of 1848, and was a member of the provisional government. He was an unsuccessful candidate for the Fresidency in 1851, and after that took little part in political affairs. He was a profife writer, his best known works being a History of the Revolution of 1848 and 2 History of the Gironding.

Lamb. Charles (1773-1844), one of the most delightful of our essayitts. His hirays of Elia are characterized by great feltity of expression, much genial

ful of our essaylots. His Excays of Elia are charac-terised by great felicity of expression, much genial humour and an ardent love both of rural life and London life. He was a clerk in the office of the East

London nic. rie was a cierk in the office of the Hast India Company for thrty-five years. In some of his writings he was assisted by his sister, Mary Lamb, to whom he was greatly devoted.

Lambers, General (1619-1621), one of the ablest of Cromwell's generals and a native of Kirkby Malham in Yorkshire. He did distinguished service at Marston Moor, Dunbar, and Worcester. At the Restoration he was ordered into availa and exact the Restoration he was ordered into exile, and spent the remainder of his life on the island of Guernsey in the

remainder of his life on the island of cuernsey in the peaceful occupation of gardening.

Lancaster, Joseph (1778-1848), a zealous promoter of popular education, whose system of utilising monitors was widely adopted.

Lander, Richard Lemon (1804-1834), a native of Truro, was an adventurous and promiseful explorer, the first to trace and describe the course of the Nicra-Ville croser were cut short by a wound indicted. Niger. His career was cut short by a wound inflicted

Dy natives.

Landon, Letitia Elizabeth (1792-1838), an English poetess, whose verses, written above the signature "L. F. L.," were in great favour while she hved and are still occasionally read. She died at Cape Coat's Castle, where she was residing with her husband, the Covernor, Mr. George Maclean, her end being occasioned by prussic acid, but whether accidentally taken or otherwise has never been fully

proved.
Landor, Arnold Henry Savage (born at Florence and grandson of the poeth, is an enterprising traveller and explorer. The story of his capture, impresonment and torture in Tibet is one of the most thrilling travel-hooks of modern tunes. His In the Forbudden I and, Alone with the Harry Anu, and Tibet and Nepaul are full of adventure and information. In 1913 published a fascinating work

Anu, and Thirt and Nepaul are full of adventure and information. In 1913 published a fascinating work on travels and explorations in "unknown Brazil."

Landor, Walter Savage (1775-1864), a writer and poet of strong genius. He wrote, a fine poetic tragedy "Count Julian" in 1812, and in later life published several other volumes of poems. The work by which he is best known, however, is his "Imaginary Conversations."

Landsear, Eir Edwin (1802-1873), the most celebrated English animal painter of his time. He was elected R.A. in 1830 and knughted in 1862-1874, the most her frequency with which they have been engraved. He designed the lions for the base of the Nelson Monument in Trafalgar Square, and was buried in St. Paul's Cathedral.

Lane, E. W. (1801-1876), an English writer to whom we owe the most popular translation of the Arabian Nights. He was also the author of a number of books dealing with ancient Expytian and Arabic Subjects, and was one of the most prominent Orientalists of the 19th century.

Lands and was one of the most prominent Orientalists of the 19th century.

Lands and was one of the most prominent Orientalists of the 19th century.

Lands and was one of the most prominent Orientalists of the 19th century.

his chief Counsellor, Lanfranc was successively Prior of Bec, Abbot of Caen, and Archbishop of Canterbury, and rebuilt the Cathedrap Lang, Endrew, (1844-1912), one of the most versatile

ong, angrew, 1244-1923), one of the most versatile of modern authors. A graceful writer of Society verse, a brilliant essayist, an entertaining novelist, a uccessful historian, an author of numerous fairy tales, and a delightful handler of folk-lore, and ancient superstitions, he covered a vast extent of literary ground. In 2907 he finished his History of

Zang, Rt. Rev. Cosmo Gordon, D.D., Archbishop of York since 1908 (b. 1864). Educated at Glasgow University and Oxford, Fellow of All Souls, Oxford, since 1888; Vicar of Portsea, 1896-1901; Canon of St. Paulis, 1907; Bishop of Stepney,

rgor-1908.

Langhorne, Dr. John (1735-1779), was a noted divine and writer, whose translation of Plutarrh's Lives is still the standard English version.

Langland, or Langley, Robert (2742 1330-1400), author of The Vision of Persy Phoumans, which had a remarkable influence in bringing about the Reformation. He was a Fellow of Oriel College, Oxford, but beyond that little is known of him.

Oxford, but beyond that little is known of him.

Langton, Staphen (1151-1228), was Archibishop of
Canterbury from 1213, and one of the chief instruments in forcing the Magna Carta from John. His
brother, Simon Langton, who died in 1248, was also
a noted ecclesiastic who sided with the barons
against the King and the Pope, but attained to great
influence at Court under Henry III.

Lankester, Professor Sir Edwin Ray (b. 1847). ne of the most learned of present-day scientists, and has written innumerable books on natural history subjects. He founded in 1884 the Marme Biological subjects. He founded in 1884 the Marine Biological Association, and was appointed Director of the Natural History Departments of the British Museum in 1896, retiring in 1906, in which year he was President of the British Association.

Lanadowne, Henry, 5th Marquis of (b. 1845), has been a prominent member of recent Conservative

mas been a prominent member of recent conservative Governments, having served as secretary for War from 1895 to 1900, and was Secretary for I-oreign Affairs from 1900 to 1905. He was Governor-General of Canada from 1883 to 1883, and from 1888 to 1893 was Vicercy of India. He is one of the trustees of the National Gallery. Leader of the Opposition in the House of Lords after the succession of the Liberals to power in 1906.

Lao-Tze, one of the ancient philosophers of China, who is supposed to have flourished about 600 B. The work upon which his fame rests, and which forms the foundation of the Tao sect, was entitled

The Path to Virtue.

Esplace, Marquis de (1740-1827), a celebrated French astronomer whose writings were of great scientific value. He is regarded as the author of the nebular hypothesis, also propounded, independently,

Eardiner, Dionysius (1702-1859), was for a number of years Professor of Natural Philosophy and Astronomy at University College, London, and published a Cabinet Cyclopedia of the Arts and Sciences, which extended to over 130 volumes.

Lardner, Nathaniel (1684-1768), a noted English Nonconformist divine, author of a vigorous defence of Christianity entitled On the Creathrilly of the Gespel History. He was born and died at Hawkhurst.

La Roohefoucauld, F., Duc de [1613-1680], a renowned French statesman and writer of the Louis XIV. Period. His Reflections and Moral Maxims is a classic.

Maxims: is a classic.

Latimer, Hugh (circa 1485-1555), the English Reformer, who became Bishop of Worcester under Henry VIII, but when Mary came to the throne was condemned as a heretic, and burned at the stake with Ridley "at the ditch over against Balliol College" in the city of Oxford.

Laud, William (1573-1645), an eminent ecclesiastic, who, after filling three minor bishoprics, was made Archbishop of Canterbury in 1633. He did much to direct the policy of Charles I., and when trouble followed, he was impeached by the Long Parliament

and committed to the Tower. Was tried for treason and beheaded.

and beheaded.

Lauderdale, Duke of (1616-1682), the son of the first Earl of Lauderdale, was one of the famous.

"Cabal" Ministry, and a notable supporter of Charles II. before the Battle of Worcester, during which engagement he was taken prisoner. Later he persecuted the Covenanters, lost royal favour

and died in disgrace.

Laurier, Sir Wilfrid (h. 1841), Premier of Canada from 1866 to 1911, and the only French-Canadias, who has held that position. An ardent Libera! Imperialist, he was instrumental in 1897 in giving the Mother Country Preferential trade with Canada Defeated at the general election of 1911 on the Reciprocity Bill. Was a prominent figure at the Imperial Conferences of 1907 and 1911.

Imperial Conferences of 1907 and 1917.

Lawator, Johann Kaspar (1742-1801), an eminent
Swiss preacher, poet, and writer, whose book on
physiognomy, which he endeavoured to reduce to a
science, is a very remarkable production.

Lawoisiar, Antoine Laurant (1743-1794), often
called the "father of nucdern chemistry, was born it.
Parls, and was the first to establish the fact tha'
combustion is a form of chemical action. He was a
victim of the "Terror." victum of the "Terror.

Law, Rt. Hon. A. Bonar, M.P., P.C. (b. 1858) a retired Scotch iron merchant who has been to Parliament since 1900, with short intermissions, and in 1972 5 was Parliamentary Secretary to the Board of Trade. A vigorous speaker and ardent Tariff Reformer. In Nov. 1911 succeeded M1. Ballour as

Ketormer. In Nov. 1917 succeeded Mi. Ballour as leader of the Unionst Party.

Law, John (1691-1720), a Scottish financier who having vanily proposed a paper currency to his own countrymen, crossed to France and succeeded in getting the French Government to take it up. Later on he projected a "Mississippl Scheme" that was taken up with avoidity by French investors, but turned out a complete failure.

Law, William (1686-1651), author of The Company.

Law, William [1686-1761], author of The Serious Call to a Devout and Holy Life, a book which has exercised a great influence upon minds predisposed to religious work, was a native of Kingscliffe, North-

to religious work, was a native or Kingschie, Promampton, and a man of noted piety.

Lawrance, Rt. Hon. Sir John Compton (1832-1913), Judge of the High Court 1800 1912, was called a Lincoln's line in 189, and represented South Lincolnshire in the Conservative interest 1880-1885, and the Conservative interest 1880-1885. Stamford Division 1885-1850. He was recorder or

Derby 180-180, and became a Justice of the King's Bench Division in the latter year.

Lawrence, Sir Alfred Tristram (b. 1843), Judge of the High Court, was chicated at Trinity Hall, Cambridge, called to the Bar at the Middle Trinity and the Middle Trin

Hall, Cambridge, called to the Bar at the Middle Temple in 1809, subsequently appointed Recorder of Windsor, and in 1892 became Junior Counsel to the Admiralty. He was elevated to the Bench 1904, and received a kinghthood.

Lawrence, Lord (1811-1879), was a younger brother of Sir Henry Lawrence (next named), the organiser of the defence of Lucknow in the Indian Mutiny. He also was highly distinguished in the Mutiny, which he did much to put down, earning for himself, by his great administrative canacity, the title of "Saydour."

he did much to put down, earning for himself, by his great administrative capacity, the title of "Savlour of India." He served as Governor-General from 1652-1659 and was raised to the peerage. Was first Chairman of the London School Board. He was burded in Westman of the London School Board. He was Lawrence, Sir Henry (1800-1857), a distinguished Indian General, who after much brilliant service in the Cabul and Sutje campings, and later as Chief Commissioner of the Punjab, was in prominent command at the outbreak of the Mutiny, taking charge of Lucknow, where he was one of the first to fall during the memorable siege, being fatally injured by the bursting of a shell.

Lawrence, Sir Thomas (1760-1870), one of the

injured by the bursting of a sheit.

Lawrence, Eir Thomas (1760-1870), one of the
fashionable portrait painters of his day, and among
the most successful in his own line of all time. Was
President of the Royal Academy from 1260 to his
death. Knighted in 1815, Lawrence enjoyed the
friendship of George IV., as Prince of Wales, and
after his accession, and painted most of the

sovereigns of Europe and many other notable personages with great charm and distinction.

Lawsons, Est Wilfried (1899-1906), a popular baronet who achieved nuch prominence as a Liberal politician and champion of the Temperance cause. Was a witty and eloquent speaker, and a man of much personal attractiveness. He stood high amongst the leaders of the Local Option movement and was at the headoff the United Kingdom Alliance for the Suppression of the Liquot Traffic.

Layard, Est Austin (1879-1894), was an earnest archaeologist, who gained considerable fame by his explorations and writings upon the ruins of Nineveh and Babylon. He filled several diplomatic appointments at one time and another, and was Ambassador to Turkey when the Cession of Cyprus was concluded in 1897.

custed in 1971.

Leader, Benjamin Williams, R.A. (b. 1831), one of the leading British landscape painters, whose pictures are remarkable for their fidelity to Nature, beauty of treatment, and brilliant colouring.

Lecky, Bt. Hon. W. E. Hartpole (1838-1903), the eminent historian and member of the Order of Marients.

the eminent historian and memoer of the University Merit, He was in Parliament for some years, and was an opponent of Home Rule. Was made P.C. in 1897. His best-known works are The History of Rationalism and The History of European

Les, Nathaniel (circa 1650-1692), an English dramatist, whose tragedies, "The Rivai Queens," "Thoodosius," and "Nero," were all plays of mark. He was a friend of, and on one occasion collaborated

He was a memory with Dryden.

As Robert Edward (1810-1870), was one of the ablest of the Confederate generals in the American Civil War, and Commander-in-Chief when the final confederate was made at Appointant in 1865.

Civil War, and Communder-the-Liner when the mina-surrender was made at Appoination in 1865.

Lee. Sir Sidney (b. 1850), the greatest living authority on Shakespeare, and was joint editor with Sir Leslie Stephen of the Dictionary of National Biography, exercising undivided control over the completion of that monumental work during the last completion of trial monumental work during the ma-ren years of its publication. His article on King Edward VII., in a supplementary volume published in 1912 caused some sensation by a freedom of comment unusual in dealing with illustrious

causer of the command of the Large with a greed on of comment unusual in dealing with illustrious personages recently dead.

Leson, John (1817-1864), perhaps the most popular of all the Punch artists, whose sketches and cartoons were the life and soul of the paper for many years.

Leibnitz, Gottfried W. von (186-1716), the Comman writer and philosopher who propounded a new system of philosophy, in which he maintained that the ultimate elements of the universe are individual centres of force or monads.

Leicaster, Robert Dudlay, Earl of (1531-1588), was the famous favourite of Queen Elizabeth, and was appointed to the command of the Land forces when the Armada threatened. He had an adventurous and chequered career, and at one time it was believed he aspired to wed the Queen. After the death of his first wife, Amy Robsart, this idea was strengthened, and gave rise to unch opposition to his advancement on the part of other statesmen. His second marriage with the Countess of Essex greatly and marriage with the Countess of Essex greatly and marriage with the Countess of Essex greatly and marriage had to the statemen.

greatly annoyed Elizabeth (b. 1813), was a native of Berlin, who gained renown by his Australian explorations, more particularly in Northern Queensland. He was never heard of after April, 1848, and is supposed to have lost his life on the Cape York Peninsula. Leighton, Lord (1890-1896), a successful English painter and sculptor who chiefly adhered to classical subjects and was renowned for his extreme delicacy of finish and splendour of colour. Among his more famous paintings are: "Venus Disrobing," "Clytemiestra," and "The Garden of the Heyperides." He was made R A. in 1890, and from 1898 to his death was P.R.A. being raised to the perage only a few riomths before his death.

Leighton, Robert (1611-1684), a noted Scottish divine who was greatly reversed for his piety and for a time was Bishop of Glasgow. His Rules for a Holy Life is a work of semarkable purity of thought.

Leland, or Leyland, John (circa 1506-1528), a famous English antiquary who made the tour of the Kingdom wifile Chaplain to Henry VIII. and thereafter wrote his well-known Isintrary.

Lely, Bir Patar (1618-168), the famous painter to whom we we so many of the potraits of the beauties of the Court of Charles II. now exhibited at Hampton Court. He was a German, whose proper name was Van der Faes. He came with the Prince of Orange to England in 1641, and was employed successively by Charles I., Cromwell, and Charles II.

Lampflare, John (1760-1824), was a Fellow of Pembroke College, Oxford, and achieved no small distinction by the complation of a Classical Dictionary. He also wrote a Universal Biography.

Lenthall, William (1591-1662), the Speaker of the Long Parliament, whose revisal to answer the King's inquiry respecting the presence of the famous "Five Memblers," marked him as a person of strong character. At the Restoration he was a Royalist.

Leofric, Earl of Bercia, was a powerful Saxon noble of the 11th century, and husband of Lady Godiva. He was mainly instrumental in the election of Edward the Confessor as King.

Godiva. He was mainly instrumental in the election of Edward the Confessor as King.

Leonardo da Vinol (1423-1536), one of the greatest all-round genuaes the world has known. Famed as the painter of "The Last Supper," "The Head of Medusa," and other great works.

Leonidas was king of Sparta at the time of the invasion of Greece by Xerres, 401 B.C., and led the defeace of the Pass of Thermopyle, where he fell.

Leopold I., King of the Belgians from 1831 to 1865, was a son of Francis, Duke of Saxe-Coburg, and uncle both of Queen Victoria and of the Prince Consort. He was a wise and enlightened ruler.

Leopold II. (1823-1910), King of the Belgians, son of

uncie both of gueen visions and collections. He was a wise and enlightened ruler.

Leopold II. (1835-1910). King of the Belgians, son of Leopold I., whom he succeeded in 1805. Was founder and Sovereign of the Congo Free State.

Le Sage. Alain Rame (1658-1974), author of the famous stories (ii Blas and Le Diable Botteux, also a description of the state of the land of the Boulogne.

famous stories fil Blas and Le Diable Boutens, also a dramatist of note. He died at Boulogne.

Lealie, Charles Robert [1794-1859], an eminent British painter and Academician; produced many notable pictures, including "The Play-Scene from Hamlet," Suncha Panza and the Duchees," etc.

Lealie, Dawid (d. 1682), a Scottish general who fought under Cromwell at Marston Moor, but later, went over to the Royalusts. At the Restoration has west central I and Newark

went over to the Royalists. he was created Lord Newark.

Lesseps, Vicomte Ferdinand de (1805-1804), an engineer of large ideas who, while Vice-Consul at Alexandra, conceived the plan of the Sucz Canal, which work was completed in 1809. He Afterwards projected the original Panama Canal, which failed.

essing. Gotthold Ephraim (1729-1781), a noted German critic and dramatic poet, whose most celebrated work was his " Laocoor

Leven, Alexr. Leslie, 1st Earl of (1580-1661), a Scottish general who won much distinction in a service of thirty years in the armies of Charles XX and Gustavus Adolphus of Swetten. Subsequently at the head of the Wirral Covenanters, Joined the standard of Charles I., distinguished himseli at Marston Moor.

Lever, Charles (1806-1872), a novelist of force and humour, who met with great success in his depiction of Irish life and character. His Harry Lorrequer and

of Irish life and character. Its Harry Lorrequer and Charles O Malley have gone through many editions. Lever, Bir William Heaketh, Bart. (b. 1851), Chairman and founder of Lever Brothers, Ltd., For Sunlight, has for many years been prominent as a business pioneer and man of affairs, and one of the most practical exponents of the industrial partnership movement. Represented the Wirral division of Cheshire from 1966 to 1910, since the war broke out Cheshire from 1906 to 1910, since the war broke out has taken an active interest in promoting recruiting and military matters generally in Cheshire and Lancasthire; presented the lease of Stafford House (now Lancaster House) to the nation for the purposes of the London Museum (9, 10, 15 a. Grand Officer of the Belgian Order of Leopold 11, and Hon. A. R. 1.B. A. Leverlier, Urbain (1811-1877), the French astronomer, co-discoverer with John Couch Adams of the plane? Neutune

Lewes, George Henry (1817-1878), an English writer of power and versatility, whose studies in philosophy, natural history and literature, resulted in several highly valuable works. He wrote a History of Philosophy, a Life of Gesthe and Problems of Life and Mind. He was the first editor of the Fortnightly Review, and it was due to his association with George Eliot (Miss Mary Ann Evans) that she was led to write her famous novels.

Lewis, Eir George Henry (1833-1011), senior member (up to 1710, when he retured) of the firm of Lewis and Lewis, solicitors, Liy Place, who were concerned in so many calebrated cases, and represented so many famous clients, as to establish a world-wide reputation.

sented so many famous clients, as to establish a world-wide reputation.

Lewis, Matthew Gregory (1773-1818), writer, of London birth, who caused a great sensation rays by publishing his novel, The Monk, a strange mixture of mystery, horror and indelicacy. It was clever, however, and made him famous. He wrote many gruesome ballads, such as "Alonzo the Brave,"

many gruesome ballads, such as "Alonzo the Brave," and was author of a number of drama conceived in a similar vein, some of which long enjoyed popularity. He was for some years in Parlament and died at sea from yellow fever, on returning from a visit to Jamaica, where he owned property. Liddon, Canon (Henry Parry) (1890–1890), one of the ablest divines of his day, whose preaching at St. Paul's from 390 to his death was eminently distinguished and attracted large congregations. His Bampton Lectures on "The Divnity of Our Lord," delivered in 1866, gained him a front position among modern religious thinkers and expounders.

expounders.

Liebig, Justus, Baron von (1803-1873), a German chemist and professor, who attained world-wide celebrity for his many discoveries in connection with applied chemistry. Among other things, he invented a ismous extract of meat. He frequently visited England, where he was held in great esteem, and many of his scientific works have been translated

into our language.

Lightfoot, Joseph Barber, Bishop (1826-189), held the See of Durham from 1870 to his death, and was one of the revisers of the Authorised Version of the New Testament. He was a great Biblical scholar

and commentator.

Li Hung Chang (1823-1901), an astute and en-lightened Chinese statesman, who by sheer ability rose from a humble position to be Chief Minister, and exercised almost supreme control for a number of years over the affairs of his native Empire.

Lalburne, John (16th-1657), was a zealous opponent of Anglican episcopacy, and was pilloried and imprisoned for his outspoken tracts. For some years before his death he was a member of the Society of perore nis death ne was a member of the Society of Friends. His brother, Robert Lilburne (1072-7653), was an officer of the Farikanientary Army, and one of the Renciede judges; he died in prison.

Lilly, William (1002-1681), a noted astrologist and prophetic almanue concocter, of considerable influence during the Civil War period.

Ausacra, Thomas (crea 1460-1524), was an eminent doctor, and the founder of the College of Physicians. In later life he became a divine, and also published translations of Galen's works.

Lincoln, Abraham (1800-1865), was a native of Kentucky; in early life hecame a lawyer, and was returned to Congress in 1846 from Springfield, Illinois, and in 1861 was elected President of the United States, when he delivered his farmes anti-slavery pronouncement, which led to the Civil War of 1861-

pronouncement, which led to the Civil War of 1857-1865. In 1864 he was re-cleeted, and in the following year was assassinated by John Wilkes Booth.

Lincolnahire, Marquess of Charles Roberts

Wynn-Carrington, K.G., P.C., &c. (b. 1843), is an active supporter of Liberal measures, and Joint Hereditary Lord Great Chamberlain. From 1885-1896, Governor of N. S. Wales; 1892-1895, Lord Chamberlain; 1905-1917, President of the Board of Agriculture. Lord Privy Seal 2013-12.

Lind. Jenny (1890-1891), a famuls prima donnous.

Livd, Jenny (1820-1887), a famous prime donna, who made a great sensation by her wonderful voice for some seasons in London and in America, from r847 onward. She was a native of Stockholm, and as a girl had sung in the streets. She married Mr. Otto Goldschmidt, the composer, and on her retire-ment settled down in England.

ment settled down in England.

Lindley, Lord (b. 1988); called to the Bar 1890, and
for many years enjoyed a lucrative practice. In 1875
was made judge of the Court of Common Pless,
1881 Lord Justice of Appeal, in 1897 Master of the
Rolls, and from 1900 to 1909 was Lord of Appeal in
Ordinary.

Lingard, John (1771-1851), an English scholar and
priest who, for the greater part of his life, was the
head of a Roman Catholic Mission at Homby.

Wrote a highly valuable History of Englands from

head of a Roman Catholic Mission at Hornby. Wrote a highly valuable History of England from the Roman point of view, declined a cardinalate, and was granted a Civil List pension of £300 a year. Linnaus, Carl won 1707-1718, a tireless Swedish doctor and scientist who became one of the most distinguished of naturalists, and the founder of modern botany. His Systema Natura was published in 1735, and other monumental works followed. He was the first to expound the true principles for defining genera and species. His published works amounted to more than 180.

Lipton, Sir Thomas J., Bart., K.C.V.O. (b. 1850), after an adventurous early career in America,

Lipton, Sir Thomas J., Bart., K.C.V.O. (b. 1850), after an adventurous early career in America, started shopkeeping in his native Glasgow, and in course of a few years enlarged his operations to such an extent that he became the largest shopkeeper m the world, with establishments in every British town of importance. Is renowned for his charities, and his attempts to win the America Yachtung Cup. Was knighted in 1898, and created a baronet in 1890. A was knighted in 1898, and created a baronet in 1890. Lister, Lord (1897-1912), achieved renown for his discovery of the antiseptic treatment which has accomplished so much on behalf of the science of surgery. From 1895 to 1900 he was President of the Royal Society; made a Baronet in 1893; raised to the original members of the Order of Merit.

Lizzt, Franz (1811-1886), a pianist and composer of splendid powers. As a pianist he was unequalled for many years. His best known compositions are his "Hungarian Rhapsodies."

Liverpool, Chas. Jenkinson, 1st Earl of (1770-1828), Prime Minister for nearly 15 years (1812-1827), a period which saw the French war successfully concluded and the tiding of the country over much of the troubles and unrest which followed at home. A statesman of an emmently practical turn.

Livingstone, David (1813-1873), the explorer and missionary, whose discoveries in Airica greatly advanced geographical knowledge. In 1871 considerable apprehension was felt in regard to his considerable apprehension was felf in regard to his fate, and an expedition was sent out under H. M. Stanley, who ultimately discovered him near Lake Tangauyka. Livingstone dued in 1893 in Africa, his remains being buried in Westminster Abbey.

Livy (59 R.C., AD 17), the distinguished Roman historial. Wrote a History of Rome in 142 books, 35 of

which only have been preserved.

Viscount (1826-1913). Conservative statesman, was at the Bar and in the House of Commons for many

years, and served as Home Secretary from 1886 to 1892.
Lloyd George, Rt. Hon. D., M.P. (b. 1863), one of the most active of Liberal politicians who has represented Carnaryon since 1800. Is an effective speaker, strong and keen in debate. At the close of 190 made President of the Board of Trade. Carried through a successful mediation between railway. directors and railway employés in 1907. Chancellor of the Exchequer since 1908, and in 1909 introduced of the Exchequer since 1908, and in 1900 introduced the famous Budget which was thrown out by the Lords, but passed the following year. Introduced the National Insurance Bill in 1911. In 1913 was attacked in connection with certain investments in the American Marconi Company, but the charges were declared unproved. The most arduous duies of his career have fallen to him in financing the war,

in which he has shown great capacity and courage.

Locke, John (1632-1704), one of the most profound thinkers of the 17th century, and author of the remarkable Essay on the Human Understanding.

Lockhart, J. G. (1994-1854), a well-known writer id son-in-law of Sir Walter Scott, whose life he wrote. He was editor of the *Quarterly Review*

wrote. He was editor of the Guarterly Review from 1892 to 1892.

Lockyer, Sir Morman, K.C.B., F.R.S. (b. 1895), a distinguished scientist and astronomer. Elected F.R.S. in 1860, and is Director of the Solar Physics Observatory, South Ketsington, and Professor of Astronomical Physics at the Royal College of Science. President of the British Association 1903-1904. By the Solar Physics at the Royal College of Science abeen chief of several Government Eclipse Expeditions.

Lodge, Sir Oliver Joseph (b. 1891), Principal of Birmingham University, an inventor and scientist of note, inberested in psychical research, and an atomicate of compromise between Science and religion. Propounded a speculative educational catechina which attracted considerable attention in 1905; published a work on Fatth and Science in 1907. President, British Association, 1973.

British Association, 1973.
London, Bishelp of. (See Ingram.)
Londondarry, Chas. Stewart Vane-Tempest, 6th Marquis of (b. 1850.) Conservation, who has been in turn Postmaster-General, President of the Board of Education, and Lord President of the Council. A prominent figure in the

President of the Council. A prominent figure in the Ulster anti-Home-Rule campaign 202-24.

Long, Rt. Hon. Walter, M.P. (b. 1854). Conscribed estatement, who has held office successively as Parliamentary Secretary to the Local Government Board, President of the Board of Agriculture, and President of the Local Government Board.

Longfallow, H. W. (1807-1883), an American poer who produced a number of volumes of poetry of great purity of thought and beauty of language, being especially successful in tender domestic pieces. His works were almost as popular in England as in this own country,

His works were almost as popular in England as in his own country,
Loreburn, Lord (b. 1846). Before being appointed to the office of Lord Chaucellor in 1905 he had, as Sir R. T. Reld, filled the positions of Solicitor-General and Attorney-General, and achieved prominence at the Bar and in Parliament, representing first literatory and their Dumfries, and acting also accounsed to the University of Oxford. Was on the Venezuelan Boundary Arbitration Commission in 1805. Resigned the Lord Chancellorship in June 1912. In Sept., 1913, wrote a much discussed letter to the Times suggesting a conference on Home Rule; in

in Sept., 1913, wrote a much discussed letter to the Times suggesting a conference on Home Kule; in 1914 was a member of the Murray-Marconi Committee. Lotze, Rudolph Hermann (1817-1831), a renowned German psychologist, who was Professor of Philosophy at Göttingen from 1844 to 1880, and was appointed to a similar position at Berlin shortly before his demise. He wrote much and ably on logic and meta-physics. and metaphysics, his greatest work being his

and metaphysics, his greatest work being his Microbosmus.

Loubet, Emille (h. 1838), ex-President of France, was the son of a poor farmer, studied for the law, became a successful advocate and was returned to the National Assembly in 1876. Was made Senator in 1895, filled the office of Fremier in 1892, was President of the Senate in 1892, and in 1890, on the sudden death of President Faure, became President of the Republic, an exalted position which he filled with great distinction until 1906.

Louis Eli, 1/423-1/483, has the reputation of being a monarch of extreme craftness and strangely ruled by superstition. He was a man of great force of cha-

by superstition. He was a man of great force of character, however, conducted his wars with vigour, and

considerably strengthened the kingly power in France.

Louis XIV. (1698-1715) reigned over France from
1643 to his death. He was responsible for corrupting

1643 to his death. He was responsible for corrupting Charles II.. for the persecution of the Huguenot, the repeal of the edict of Nantes, and for the war of the Spanish Succession. He was a sensual, inxuryloving king, but encouraged arts and ilterature, ouris XX. (170-1774). called the Well-Beloved. Was the most Heentous of his race, and an inveterate hater of England. In the war between England and France for the possession of Canada, England war victorious, however, and Louis tried to console himself for his defeat by greater devotion to his favourites at Versallies. He left France impoverished and discontented.

Louis XVI. (1754-1793) was the apathetic and unfortunate Franch king who married Marie Antoinette, allowed his country to be swayed by first one statesman and then another, until at last he saw himself divested of every shred of power by the Revolutionists. How he and his Queen were subsequently imprisoned and sent to the guillotine all students of French history know.

French history know.
Lowar, Samuel (1797-1868), an Irish song writer and, novelust who won considerable fame. His Hansty Andy is one of the most humorous stories of Irish life and character ever written, while many of his songs—"Molly Bawn," "The Low-Back'd Car," "Father Molloy," etc.—have a permanent place in the history of Irish mustreley.
Lowall, James Russell (1819-1891), an American writershap neet of singular rowse and humory writer.

writerand poet of singular power and humour who made his first hit with the Bigione Papers in 1848, and was editor of the Altania Monthly from 1897 to 1800, in which latter year he was supported American Ambassador

latter year he was appointed American Ambassador to London, a position which he held until 1880, Lowther, Rt. Hon. J. W., Speaker of the House of Commons (b. 1855), was Chairman of Ways and Means from 1895 to 1905, when he was elected to his present post. M.P. for Pennth since 1886. Loyola, Ignatius de (1491-1566), was the founder of the order of Jesuits. He was of noble birth and for a time devoted himself to arms, but after being wounded at the siege of Pamiellan araye his life up.

tope time devoted himself to arms, but after being wounded at the stepe of Pampeluna gave his life up to religion. After the formation of his Society he was made the First General of the Order, a position which he held for the rest of his life. Pope Gregory XV. canonised him in 1622.

Lucratius, Titus Caritus (9, B.C.—52 B.C.), the Roman poet whose "De Rerum Naturd" is noted for its eventure of the account heavy of I accises.

Roman poet whose "De Rerum Naturd" is noted for its exposition of the atomic theory of Leucippus. Lucy, Sir Henry W. (b. 1845), a well-known journalist and author who for a number of years, amongst other activities, as "Toby, M.P.," has wittly travestied for Punch the proceedings of the Legislature. He has also written numerous books of contemporary Parliamentary Instory and anecdote, and is the author of a clever novel entitled Gideon Fleyce. His Sixty Years in the ll'ilderness was published in 1909, in which year he was knuyhted.

Lugard, Lieut.-Col. Sir F. D. (b. 1898), has a hulliant record for services in Africa and India. Was in the Afghan War of 1879; Soudan, 1885; Burma, 1886-1889; Uganda, 1889-1892; First High Commissioner Northen, Nigeria, 1900-1906; and was Governor of Hong-Kong, 1907-12; appointed Governor and Commander-in-Chief of Nigeria in

Luther, Martin (1483-1546), the great German Reformer, Was ordained a pries in 1507. Became Professor of Theology at the University of Witten-Professor of Theology at the University of Wittenberg and until 1513 was an orthodox Ronian Catholic. His first idea of revolt occurred when he saw indujences being sold, a practice which he openly condemned. For this he was excommunicated, and summoned before the Diet at Worms, where he made a memorable defence. He then separated himself from the Roman Catholics, and began to preach the Reformed Religion, his doctrine being formulated in the confession of Augsburg. He lived to see the principles of the Reformation widely established.

Lyourgus, the Spartan legislator, who flourished about 844 B.C., and for a brief period occupied the throne, in succession to his brother Polydectes, whose wife giving birth to a son some months after her

wife giving birth to a son some months after her husband's death, Lycurgus abdicated in favour of the child, and travelled abroad for many years. On his return, he found the country disonganised, and set about the work of his life, drawing up a series of laws which endured for 700 years.

Lyall, Sir Charles (1797-1875), a distinguished geologist whose researches shed great light upon geological science, and whose Principles of Geology placed that science on an improved basis. He was a supporter of the Darwinian theory. Was twice President of the Geological Society, and in 1864, President of the British Association. Was knighted

in 1848, made a baronet in 1864, and was buned in Westminster Abbey.

Lyne, Hon. Sir William J., K.C.M.G. (18441973), native of Tasmania, settled in Queensland in 1864; from 1880 to 180r sat for Hume (N.S. W.) and was a member of the Dibbs and Jennings Ministry. Premier 1899-1901; Minister of Trade and Customs, 1903-1904 and 1905-1907, and Treasurer, 1907. In the latter year visited the Imperial Conference.

Lyttalton, Rt. Hon. Alfred, M.P. (1887-1973), sat in Parlament for Leamington from 1895-1905, and succeeded Mr. Chamberlain as Colonial Secretary in October, 1902. As a barrister he became a K.C. and

October, 1903. As a barrister he became a K.C. and was appointed Recorder of Hereford in 1894 and Recorder of Oxford in 1895. Was M.P. for St.

George's, Hanover Square, from 1910 to his death. Lytton, Edward Bulwer, 1st Lord (1863-1873). a prominent and prolific novelist and dramatist, whose romantic stones made him famous, and inwhose foliating stories made find influes, and included Pelhain, The Last Days of Poinper, Ernest Mattravers, Harvid, and The Caxtons. Ohis plays, "The Lady of Lyons" and "Money" still keep the stage.

Maartens, Maarten (b. 1858) (real name J. M. W. Van der Poorten-Schwartz), a Dutch novelist who Van der Poorten-Schwartzi, a Dutch novelles will writes in English, and is author of many stories which have attained deserved popularity, among

which have attended deserved popularity, among them The Sin of Youst Architight.

Eacadam, John Loudon (1756-1836), was a Scottish engineer who invented the process of road-repairing which bears his name, and consists of covering the inglineary with small piecess of hard stone of most land scoules right and formula the other than the standard scoules right and formula the other than the scott of the standard scotles right and formula the other than the standard scotles right and formula the standard scotters and formula the standard scotles right and scotters and formula the standard scotles right and scotters and formula the standard scotles right and scotles right and scotles right and scotters and scotles right and scot covering the ingliway with small pieces of hard stone of small and regular size, and forming a bed of them by heavy materia pressure. His method was widely adopted. He was made Surveyor-General of the metropolitan roads, and received a Parliamentary grant, retusing a kinglithood, which was, however, conterred on his son, Sir James, Nicoll Macadam.

**Bacara, Sir G. W., Bart, b. rags, President of the English Federation of Master Cotton Spinners' Association, and of the Manchester Cotton Association, and of the Industrial Council, which

historical and a member of the Industrial Council, which he may be said to lave originated. Originator of the Lifeboat Saturday movement.

**Lacaulay, Thormas Babington, Lord (1800-1890), the most brilliant historian of the Victorian era His fame was assured by his Fisags and Lays of Ancient Rome, and his History did more than confirm it. He was a son of Zachary Micaulay (1708-1838), the anti-slavery agitator, and sat in Parliament as member for Calne for some years, also serving for five years as a member of the Supreme Council of respectively the state of the superior of the Secretary for War, and was raised to the peerage in 1857. Both Lord Macaulay and his father he burned in Westmanster Abbey.

Eacheth, according to Holimshed's Chronicle, was the usurping Scottish king who succeeded Duncan, whom he nurdered. Macbeth was slain by Duncan's son Malcohn in 1036 after a reign of seventeen years. His history forms the subject of Shakespeare's cele-

brated tragedy.

McCallum, Col. Sir H. E., G C.M G. (b. 1852), has filled several important diplomatic posts, inclining the Governorships of Newtonniland and Natal, and was appointed Governor of Ceylon 1907 14.

BoCarthy, Justin (1830-1912), politician, noveles, and historian, was born in Cotk, and on leaving school became connected with journalism, first in Liverpool and then in London, and from 1870 to 1896 was a prominent member of the Irish Party in Parliament, succeeding Mr Parnell in 1890 in the Parliament, Acceeding are rarised in 1890 in the leadership of the party. He is Best known as a writer, however, and his History of our Unin Times is a very popular work. He wrote numerous novels. Was awarded a Civil List Pension of £230 in 1903.

Macdonald, J. Ramszy, M.P. (b. 1866), sits for Leicester as Labour member; Chairman of the Independent Labour Party, 1906-5; Secretary to the Labour Party, 1906-17; Leader of the Labour Party, 1917. Editor of the Sectatist Library.

Mackzy, Charles (1814-1896), a writer of popular songs which had a great vogue as set to music and sung by Henry Russell in his entertainment descriptive of life in America, including "Cheer, boycheer," "To the West," "Far, far upon the Sea," and countless others. Mr. Mackay was war correspondent to The Times during the Civil War in the United States.

Mackzy, John William (1821-1002), a Dublin Mackey, John William (1821-1002), a Dublin

Mackey, John William (1831-1902), a Dublin Irishman who emgrated to America, went West, and in the "silver fever" of the "sixties" made tracks for Nevada, where he had the good fortune to "strike" one of the richest veins, and soon became

a millionaire.

M'Clintock, Admiral Sir Francis (1819-1907), a well-known Arctic explorer, noted for the expe-ditions he took part in in search of Sir John Franklin discovering numerous relics of his great foregoer Later, Sir Francis filled the position of Super-ntendent of Portsmouth Dockyard, and was subse-quently made Commander-in-Chief on the West Indian Station, being placed on the retired list in 382

McClure, Sir Robert (1807-1873), born at Wexford, was an Arctic explorer of note who was associated with the search for Sir John Franklin organised in 1848, and later made important discoveres along the

North coast of Canada,

Macdonald, Sir Claude M. (b. 1852), British Ambassador to Japan, 1000-12; formerly Minister at Pekin and commanded the Legations at the til Pekin and commanded the Legations at the troof the stege of 1900. He was in the army before entering the Diplomatic Service, and has achieved much personal popularity in the Orient.

Racdonald, **Flora (1920-1990), attracted much romantic interest by her bravery in conducting Prince **Charlie** to the Isle of Skye, when he was pursued. She afterwards married and settled in America, butlended her days in Skye.

Macdonald, George (1824-1905), a novelist and poet whose stories of Scottish peasant life paved the way for a later school of workers in the same field. The best of his stories are David Eigenbrook and Robert Paticouer.

Robert I-alconer.

Macdonnell, Lord (b. 1844), spent a great part of his life in the Indian Civil Service, where he held the Cluef Commissionership of the Central Provinces, afterwards serving in Burmah; later on was Acting anterwards serving in Bulinan; later on was Acting-Leutenant-Governor of Bengal, and a member of the Indian Council. His last Indian post was that of Lieutenant-Governor of the North-West Province, and Chief Commissioner of Outh; and in 1993 he wa-made Irish Under-Secretary, in which position he created considerable political strip by his vigorous interpretation of his duties. He retired from this position in 1988. position in 1908

Macfarrea, Sir Goorge (1813-1897), was a dis-tinguished English composer of both sacred and secular music. Among his operas may be mentioned "Don Quixole" and "The Devil's Opera." He also

composed several oratorios and cantatas.

composed several oratorios and cantatas.

Macfarpen, Prof. Walter (1820-1905), lecture:
and prominent official of the Royal Academy of
Music for a long period, and a romposer of many
son itas, neces, and songs of much ment.

Macchiavelli, Nicolo (1460 1527), a Florentine
diplomatist and historian, whose book, Il Principe

has maintained its celebrity through the centuries

has maintained its celebrity through the centuries as a masterly exposition of the method of governing by artifice. He also wrote a history of Florence.

Rokenna, Rt. Hon. Reginald (b. 1873), has represented North Monimouthshire since 1895. Was appointed Financial Secretary to the Treasury in 1907 in Sir H. Campbell-Bameriann's Governing and introduced the Education Bill of 1908. In 1905 became First Lord of the Admiralty, and I Home Secretary. Rowed in the Campridge winning both 1898.

Mackenzie, Sir A. C., Mus. Doc. (b. 1847), ?

British composer who has been Principal of the Royal Academy of Music since 1888, and has gained fame by memarous musical compositions of a high order, including the opens of "Colomba," "The Troubadour," and "His Majesty." Among his numerous cannetas, "The Bride," "The Rose of Sharon," and "The Dream of Jubal" take high stank. Conductor Philhamonic Society.

Magkenusia, Sitz Alexander (1775-180). Born at Inverness, in early life entered the service of the Hudson Bay Company, and, succeeding in making his way from Fort Chippewayan, on Lake Athabasca, to the Northern Ocean, traced the course of the river called after him, and made very important geographical discoveries. Later on he crossed the Rocky Mountains to the Pacific near Capp Menzies, being the first white man to make the Journey.

Mankennile, Hampy (1745-1837), a Scottish novelist who gained celebrity by his stories The Man of Feeling and The Man of the World.

Mackennile, Sir Morrell (1837-1830), an eminent Scottish physician and throat specialist, and one of the founders of the Hospital for Dreases of the Throat in London. Operated on the Emperor Frederick III. of Germany when that monarch was (shortly before his accession) attacked with the cancerous allment which proved fatal.

Malkinley, William (1843-1901), the American statesman who was mainly responsible for the strong protectionist character of the American tariff laws. Became President of the United States in 1897, was re-elected in 200, and was assavanted by an anarchist in the same year, being shot whillst attending the Buffalo Exhibition.

Mackintooth, Sir James (1765-1832), a well-known writer and politician, who from 1804 to 1812 was Recorder of Bombay, and, returning to England, entered Parliament, and at the same time occupied himself successfully in literature. His History of Fingland is of considerable value.

Mackintooth, Dr. John (b. 1833). The son of a crofter, was apprenticed to a shocuakor, afterwards working at that trade for fourteen years. Later he served five years in the Abe

Aborden in 1888, and a Civil List pension of £50 was granted to him in 1900.

Machingan, Rt. Hom. and Moat Raw. Wm. Bachgan, Rt. Hom. and Moat Raw. Wm. Dairymple, D.D. (1820-1929), Archbishop of York trom flor to 1905; educated at Cambridge; Priest, 1857, Rector of Newngton, 1859-1875; Vicar of Kensugton, 1879-1878; Bishlop of Lichheid, 1878.

Maclean, Maid, General Sir H. Aubrey & Military Instructor to the Sultan of Morocco for some thirty years. Represented Morocco at the Coronation of Industry VIII. Captured by Raisuli in July, 1907, and not released until February, 1908, when he was ransouned, Marned to Miss Prendergast, 1913.

Macleod, Dr. Morman (1819-1879), was Chaplain to Queen Victoria from 1850. Editor of Good Words from 1860 to 1879, and the author of numerous books of essays, travels, and stories.

Maclise, Damiel (1806-1870), a distinguished painter and R.A., who produced several pictures of Shakespearen scenes of great distinction, and painted a number of frestoes in the House of Lords.

Maclise, Damiel (1806-1870), a distinguished painter and R.A., who produced several pictures of Shakespearen scenes of great distinction, and painted a number of frestoes in the House of Lords.

Maclise, Damiel (1806-1870), a distinguished painter and R.A., who produced several pictures of Shakespearen scenes of great distinction, and painted a number of frestoes in the House of Lords.

Maclise, Damiel (1806-1870), as a French solder for Irish descent) who won great distinction in the Crimes, Italy, and as commander of the Empire he reorganised the French Earny, and from 1873 to 1879 was President of the Republic.

Machingan, Marcha Priestoes from an old teacher and the edisor of The Schoolmaster. A capital platform speaker and sealous propagandist. Secretary to the

Local Government Board 1997-1908, and Secretary to the Admirality since 2908.

Macphesmon, James (1798-1796), a Scotish post who gave 'Ossian' to the world and thereby made himself a lasting name, though whether he was merely a translator or was the inventor of that fine series of poems is not even yet completely settled. He was buried in Westminster Abbey.

"Macready, W. G. (1793-1873), a famous tragedian who was manager in turn of Covent Gerden and Drury Lane Theatres in London, and was highly successful in Shakespearean and other impersonations.

Mactarlinck, Macurlea (b. 1862), the distinguished Belgian poet and critical writer, who during the last two decades has published numerous stories, essays, and plays remarkable for their strong spintuality and betury of style. His principal works are La Princetse Maleira, Pelulas at Melitanda, La Sagesse et la Destinde, and The Double Garden.

Mage, William Common (1801-1801). Bishop of Peterborough for twenty-three years, and Archbishop of York for a brief few weeks before his death, was a great prelate in many ways—as orator, administrator, and sections workers.

great prelate in many ways—as orator, administrator,

nd realous worker.

great prelate in many ways—as crator, administrator, and realous worker.

Magellam, Fardinand (1470-1521), a famous Portuguese navigator, and commander of the first expedition (1570) to sail round the world.

Mahan, Gapt. A. T. (b. 1840), an American, and the greatest authority on naval history. His book on The influence of See Prover is a "the" disquisition.

Maine, Bir Henry (1822-1838), the distinguished jurnst. Was appointed Regius Professor of Civil Law at Cambridge University in 1842, and from 1852 to 1858 as a see that the second of India. His works, Early History of Institutional Council of India. His works, Early History of Institutional Assertational Law, are of the highest importance, discense Law, Popular Government, and International Law, are of the highest importance, and so fascinated Louis XIV. that he ultimately married her. At his death she retired to a convent.

Mailtand, William [1277-1373], was one of the Scottish Protestant leaders, whose aim was to bring about the union of England and Scotland. His adherence to the cause of Mary Queen of Scots, whose secretary he became, got him into trouble with the Regent Moray. He was captured at the surrender of Eduburgh Castle to the English, and died in prison.

Mailbran, Maria (1868-1856), was one of the most famous operatic singers of her time, enjeying a

min the Neglein Monay. The was explicited at an aurender of Edinburgh Castle to the English, and delin prison. Maria (1808-1856), was one of the most famous operatic singers of her time, enjeying a world-wide reputation.

Mallock, William H. (b. 1849), was educated at Oxford, and after an extensive course of travel made his mark by a suries of clever books in which the leading social and philosophical questions of the time were brilliantly discussed. The New Pesh and Nigenia were much talked about. He is also the author of several novels, including A Hemser Document, A Romance of the Nineteenth Gentury, and An Immortal Som (circa 140-147), compiled the Morte of Arther, which was printed by Caston in 1885, and relates the story of King Arthur and the Knights of the Round Table.

Malthaus, Thomas R. (1760-1854), was an English ciergyman and political economist who in his essay on The Principle of Population proposed to limit be increase of population by discouraging marriage and otherwise. This doctrine, to which the name of Malthuskins in sow always applied, raised a great storm of dissent, and was largely misconstrued or misunderstand. Malthus was Professor of History and Political Romomy at Halleybury College for the last thirty years of his life.

Manchester, Bishop of. (See Manc.)

Manchester, Bishop of. (See Manc.)

Manchester, Bishop of. (See Manc.)

Manchester, Sichop of the New Manchester of the work of this workly, who described himself as of St. Albans.

Sanaing, Henry Maward, Gardinal (1808-1808)

Manuing, Henry Edward, Cardinal (18:6-

189a). Cardinal Archbishop of Westminster, was a prominent Anglican Churchinan up to 1833, when he joined the Church of Rome and in 1865 succeeded Cardinal Wiseman at Westminster. He was a man of devout and noble life, an advocate of temperance, and of all measures calculated to benefit the poor.

Manna, Sir August (1895-1907), was born in Germany and attained enumence as a musician and conductor in Berin and elsewhere, and in 1835 cmm to England and became Musical Director of the Crystal Palace, a position which he held with distinction for forty-five years. He was knighted in 1903.

Mannal, Henry Longuewille (1820-1971), was noted scholar and Anglican divine, occupying the positions of Professor of Moral Philosophy and Regius Professor of Ecclesiastical History at Oxford. He was also Dean of St. Paul's and the author of several works on logic and religion.

works on logic and religion.

Marat, Jean Paul (1/14-1793), one of the leading actors in the French Reign of Terror. Lived in England some years before the Revolution, and

England some years before the Revolution, and practised as a doctor, but, returning to France, joined the Revolutionists and became one of their most ferocious champious. Killed by Charlotte Corday.

Marchamley, George Whiteley, Baron (b. 1854), was M.P. for Stockport 1893-1900, and for the Pudsey Div. of Yorks, 1900-8. Parliamentary Secretary to the Treasury and Chief Liberal Whip 1905-8. Made a Privy Councillor 1907, and raised to the peering as Lord Marchamley, 1908.

Marco Polo (1856-1933), the fumous Venetian traveller and explorer, who made journeys through China, India, and other castern countries, and published the record of his various wanderings, recombisined the record of his various wanderings, recombi-

lished the record of his various wanderings, recount-ing the many wonders and marvels he had seen—a record which seemed for the most part beyond credence

to his contemporaries, but now largely confirmed.

Marconi, G. (b. 1875), an ingenious Italian electrician who was educated at Leghorn and Bologna. Coming who was educated at Legitorn and Bologna. Coming to Eurland, he studied with Professor Preece, and in 1895 brought forward an apparatus by which he succeeded in sending wireless messages. In 1902 succeeded in transmitting trans-oceanic messages, and to-day his system is being adopted in all parts of the world. Established a public wireless telegraph service across the Atlantic in 1907. Awarded Nobel Prize for Physics, 1909. Entered into an important contract with the British Government in 1912 for establishing wireless stations at different points contract with the British Coveriment in 1912 we establishing wireless stations at different points throughout the Empire—a contract which was revised considerably in the following year after the sittings of the Marconi Committee of Inquiry. Lost

the sight of an eye in a motor accident in 1912.

Margaret, "The Maid of Norway," as she was called, was the daughter of Erit II., King of Norway, and became direct heir to the Scottish throne on the

and became direct heir to the Scottish throne on the death of her grandfather, Alexander III. of Scotland, but died on her way to Scotland.

**Margaret* of Anjou (1430-1482), the wife of Henry VI., was the daughter of the King of Sicily, and in the Wars of the Roses was in long conflict with the Duke of York and his addirectus. She was captured by the Yorkists after the Battle of Tewkesbury, but ransomed by Louis XI., and allowed to retire to the Continent.

retire to the Continent.

Rangaret, St. (1047-1059), wife of Malcolm Canmore, and Queen of Scotland. She was a devout Christian, and zealous in her efforts to convert her husband's people, her good deeds being held in such profound remembrance that she was canonised in 1250.

Maria Louisa (1791-1847), daughter of Francis I. of Austria, became wife of Napoleon In 1870, and bore him a son. (See Napoleon II.) On her husband's expatriation she returned to Vienna, and ended up a new year discrete career by marrying Count Nienpers.

expatriation she returned to Vienna, and ended up a not very discreet career by marrying Count Niesperg.

Earia. Thereas. (1717-1780) was a woman of remarkable strength of character and ability, and succeeded her father. Charles VI., as Empress of Germany. Her right to the throne was contested, and gave rise to the famous war of the Austriary. Succession, in which she was aided by England, and which lasted seven years, being ended by the Treaty of Air-la-Chapelle on October 7th, 1748. She displayed great vigour as a ruler.

Marie Antoineste (1755-1793) was daughter of the Emperor Francis I. of Austria, and became wife of Louis XVI. of France. She entered with spirit_kint the gaiety of French Court life, and drew down upon herself much popular hatred in consequence. In the torribb events which followed the outbreak of the Revolution she was one of the chief sufferers, but bore her fate with dignity and resignation, and met her death on the scaffold with unfine courses.

outbreak of the Revolution she was one of the chies sufferers, but bore her fate with dignity and resignation, and met her death on the scaffold with unflinching courage.

Marius Casius (B.C. 753-86) was one of the most distinguished Roman generals, a tribune of the people, praetor, and six tunes Consul. He was Propractor of Spain in 714 B.C.

Mark Antony. (See Antony.)

Markham, Sir Glemants (b. 1830), President of the Royal Geographical Society, and one of the most enument of nodern explorers. He served in the Arctic Expedition of 1850-1857, and was geographer to the Abyssiana Expedition in 1867, He was the introducer of the quinine yielding Cinchona Tree from Peru to Birtish India.

Marlborough, Duke of (1650-1723), the celebrated English general of the Queen Anne and William III. period. Under Charles II. he had won much commendation and a peerage for his military services, and William III. rewarded him with an earldom, but it was not until the War of the Spaints Succession that he attained his full opportunity. In that war he scored a series of splendid victores at Blendein, Ramilles, Malplaquet, etc., and was the most renowned general in Europe. He was made Duke of Marlborough, had the estate of Woodstock and a perpetual pension of £5,000 a year conferred upon him, and the Queen built him Blenheim Palaco. In his later years he lost much of his popularity. George I., however, restored him to the office of Commander-in-Chief, and on his death he was buried in Westumster Abbey, His wife, Sarah Jennings. Duchess of Marlborough (1650-1744), was the imperious and avaricious lady who dominated Queen Aune until supplanted by the pilant sovereign's later favourite, Mrs. Masilam.

Marlowe, Christopher (1563-1593), one of the greatest of the Elizabethan dramatists. His principal

Anne until supplanted by the plant sovereign's sates favourite, Mr. Masham.

Marlowe, Christopher (1563-1593), one of the greatest of the Elizabethan dramatists. His principal plays are "Dr. Faustus," "Tamluriame the Great," "Edward II.," and "The Jew of Malta." He was killed in a tavern brawl at Deptford.

Marmont, Marhal (1774-1852) was one of Napoleon's most famous generals, being made Duke of Ragusa for his distinguished services. After Napoleon's fall, he joined the Bourbons.

Marconhetti, Baron Carlo (1863-1868), an Italian sculptor who lived in England for many years and produced numerous statues, including one of Queen Victoria for Glasgow, one of Lord Clyde for London, and the colosal statue of Richard I. now standing in front of the House of Lords.

Marryat, Captain Frederick (1793-1868), an exceedingly popular writer of sea stories. His Peter Simple, The King's Onn., Jacob Fatthpid, and Midshipman Easy are among the breezest and most humorous sea tales in the language.

Marryat, Florence (1837-1899), a writer of many course of considerable monutative, among them Oder.

most humorous sea tales in the language.

MarFyat, Florence (1837-1899), a writer of many novels of considerable popularity, among them Open Sesame and Wretten in Fire. She edited London Society for four years, and was the author of a life of her father, Capt, Frederick Marryat.

Marfial (43-roa) was born at Bibbilis in Spain, but spent the greater part of his life in Rome, where he acquired much fame as a poet and spigranmatis.

Marfin, &K. (316-400), a French monk who founded the convent of Poictiers, and later was made Bishop of Taurs.

the convent of Poictiers, and later was mause outley, of Tours.

Martin, Sir Theodore (1816-1900). Although he was for many years a practising solicitor and Parliamentary agent, the best part of his life was identified conspicuously with literature. His "Bon Gastitier Ballads" and numerous translations from Goethe, Dante, Heine, Schiller and others testify to his graceful poets faculty. He also wrote lives of the Frince Consort, Frincass Alice, Professor Aytoun, and Lord Lyndhurs. Several plays stand besides to his credit. His wife was Helen Faucit, a celebrated actress.

PEARS' CYGLICPAEDIA.

Mastinesta, Dh., James (1205-1200), the most prominent Uniterian minister of his time, and a writer of great gower. From 1805 to 1818 the was Principal of Manchester New College, said during that period wrote the greater part of his remarkable essays, all of which were of a profoundly spiritual character, and pessessed much liberary charm. He was a brother of Hardet Martineau.

Martineau, Harries (1800-1876), was a writer of great power and noble purpose. Some ôf her novels are still read, and her Tales of the Poor Laws excited much symptoly at the time of their appearance. She was also the author of Illustrations of Political Rememy. For wany years she resided at Ambleside, in the Lake District.

Marying, Hanry (1761-1818), a missionary who devoted himself so actively to his work in India and Persia that he died wom out at the early ago of 32. He translated parts of the Scripture and Prayer Book into the Persian and Hindustan languages.

Maryell, Andrew (1620-1678), poet and diplomatist, friend of Milton, assistant Lain secretary to Cromwell, and for a time represented Hull, his native town, in Parliament. His poems are characterized by much quaintness of thought, vigour, and satrical point. He was styled "the incorruptible pariot." because of his sturdy refusal of a large monetary offer made to him on behalf of King Charles II. when he was in indigent circumstances.

offer made to him on behalf of King Charles II. when he was in indigent circumstances.

MARY, KAPI (1818-1833), an active Socialist, who was expolled from France, and from 184 lived mainly in England, where he identified himself with the cause of the labouring classes and was a most earnest worker. His work Dat Kapital, is a powerful fragment, only one volume being published.

MARY of Modessa (1658-1718), was the second wife of James II., and mother of the "Old Pretender," James Francis Edward Stuart.

MARY I. (1656-1636) doubther of Henry VIII. Was

James Francis Edward Stuart.

Lary L. (136-1358), daughter of Henry VIII. Was Queen of England from 1533 to her death. She was a strenuous Roman Catholic, and entirely reversed the religious order of things during her brief reign, persecuting, imprisoning, and burning at the stake many of the Protestant reformers, nearly three hundred persons being put to death during her short reign as heratics. She was married to Philip of Screin in 156.

drod persons being put to death during her short reign as hert.tics. She was married to Philip of Spain in 1554.

Mary II. 1960a-1604) daughter of James II. Came to the English throne in 1680, having been married to her cousin, William of Orange, fifteen months previously. They reigned jointly, after assenting to the "Declaration of Rights," until her demise.

Mary, Queen of Scots (1540-1659), was a daughter of James V. of Scotland, and was married to the Dauphin of France at sisteen years of age, and lived at the Freuch Court. On the death of her husband in 1500 she returned to Scotland, and for a time was the acknowledged Queen of the Scots. In 1505 she married Lord Damley, and theseeforward from one cause and another her entangiements increased, Jealous of Rizzio, the Queen's Italian secretary. Darnley had that murdered an Holyrood Falace, in the presence of the Queen, and twelve months later Darnley himself was murdered by Bothwell, who married Mary three months afterwards. The Scotlish nebles, angered by these various acts, rebelled against Mary, and she was made prisoner and confined is Loch Leven Castle, compelled to abandon Bothwell and to sign an Act of Abdication in favour of her son. Escaping to England, she asought the protection of Elizabeth, but that monarch refused to give her her freedom, and unprisoned her for the feet intered parents in the control castle, and ultisought the protection of Elizabeth, but that monarch rebinsed to give her her freedom, and unprisoned her for the next nineteen years in various castles, and ultimately had her beleasted on a cheyra of complexe. She was buried in Peterhorough Cathedral, but after her son James I. of England ascended the throne her remains were removed to Westminsted Abbey. Resistant, Pietro (b. 1860), the Italian composer, stained sudden celebrity by his "Cavalletta Rutticasa" in 1890, and has since produced a number of operas of a more ambitious character, but perhaps not up to the level of his first effort.

Rassians, Duc de Rivelit (1758-1817), was of humble birth, but entered the army of the French

Republic, and made such headway that he was quickly premoted to the position of General of Division. His successes in battle made him a favorities with Napoleon, Later he joined the Bourhous.

Massingham, H. W., b. 2860, editor of The-Nation since its start in 2907, and a Liberal journalist of mark and influence. Has edited the Star and the Dasity Chrosticle, and was for some years special Parliamentary representative of the Dasity News, in which capacity he rendered valuable party service. Mr. Massingham is also a dramatic critic of power and naight.

Massingar, Philip [1383-1640], a dramatist of exceptional power, whose plays were highly popular in his day and later, and some of which are still occasionally performed. His deverse play was "A New Way to Pay Ola Debts," the Sir Charles Overreach of that plece being a fine bit of characterisation, in which nearly all our great actors have appeared.

Masstarman, Rt. Hon. G. P. G., b. 1873, M.P. for S. W. Bethnal Green 1911-14, Financial Secretary to the Treasury 1912-14, and Chancellor of the Duchy of Lancaster, 1914. Was defeated at Bethnal Green on seeking re-dection, and also later at lyswich. Was Parliamentary Secretary of the Local Government Roard 1908-1909, and Under Secretary for the Home Department, 1909-19, and Passing Parliamentary Theobald (1790-1856), popularly known

on seeking re-election, and also later at Ipswich. Was Parhamentary Secretary of the Local Government Roard 1908-1909, and Under Secretary for the Home Department, 1909-12.

Home Department of The Government gave him as a matter of Tipperary, and, leaving the priestooled, devoted himself to temperate of Charles (1776-183), was a talented competation of Charles (1780-1878), was a talented competation of the Latente of Charles J. (1809-1878), the son of the last named, and also a clever actor and dramatist of some ability. He married, first Madame Vestris the famous operatic artiste who was his manager, and after her death Miss Davenport, an American actress.

Mathews, Quintin (1466-1739), a distinguished Flemish painter who was origunally a blacksmith. He excelled in Scriptural subjects. His "St. John the Baptist" and "St. John the Evangelist" are in Antwerp Catherical. Windsor Castle has his "Two Misers."

Maurice, Frederick Denison (1809-1872), a leader of rehigons thought and social reform, his Theological Estrays being characterised by ideas then regarded as very advanced. Held the Chair of Moral Philosophy at Cambridge m 1866.

Mawson, Douglias (b. 1889), commander of the Australian Antarctic expedition of 1911: previously of the Shackleton expedition. His party endured terrible sufferings in 1912; all diod except himself. In 1913 he succeeded in establishing a scientific station on the Macquarie Islands with wireless telegraph installation, in connection with the Antarctic cuinent.

Maxim, Sir Hiram (h. 1840, 1840, in Maine, U.S.A.), is the inventor of the famous antomatic quick-firing gun which bears his name. He is a mechanician and scientist and mathematician, was born a

Mazarin, Jules (1602-1661), an Italian Cardinal who became chief Minister of State under Louis XIV.

became chief Minister of State under Louis XIV., and was for a number of years the practical ruler of France. He succeeded Richelleu. Massppa. I wan (1644-1709), the here of Byron's poem, was a real personage, and a Pole, and was tied naked on the back of a wild horse, and so sent out across the Russian desert, for an intigua with a noble's wife. He was liberated by Cosacks and afterwards attribed an honourable position.

PEARS' CYCLOPAEDIA.

Manufai, Ginarysa (1803-1874), at Italian patrict, who, it his chelemotifus to secure the indepthicence of Italy, incurrent the Ulaisway of the authoritience of Italy of the Italy of the Italy of Italy clause the London, and deept up his attacks upon staking governments. In 1848 he was back in Russe, and was adected dictator of the Roman Registible, the year not subowed to hold this position being however, for the French occupied Rome and Manufaction of Italy was accomplished in other ways that those advocated by Manzini, but he lived to see Victor Emmanate king of United Italy.

Malander of French modern painters, whose "Visit to the Burgemaster" (in the Wallace Collection), "La Rise" (presented by Napoleon' II. to the English Court, and now hanging in Buckingham Pelace), and his "1844" (Napoleon's return from Mestow), are among his best knewn pictures.

Malandithon, Pallily (1892-1804), fined and coworker with Luther. A man of great scholarship who drew up the famous Augsburg Confession, More moderate in his views than Luther, he survived his fitted februcen years and was of material help in soliditying the Reformation.

Malba, Badama (b. 1868), the celebrated prima doesse, was been in Melbourge—her father being a Scotsman amed Mitchell, and her mother of Spanish descent—and made her ident in 1894 at Brussels in Verdis' Rigodetor's since which time her career has been one of unbroken success.

Mahandrap, Viscounts (1793-1848), Queen Victoria's first Premer, holding office over six years, and identified with many unportant Liberal measures.

Mahandrap, Viscounts (1793-1848), They are Brussels in Verdis' Rigodetor's since which time her career has been one of unbroken success.

Mahandrap, Viscounts (1793-1848), Theen Victoria's first Premer, holding office over six years, and wa

regorous ruler. Is a G.C.B. and C.C.M.C.

McRoator, Gerhard (1821-22.), was the famous
Flemish geographer who invented a celestial and a
terrestrial globe, by which he introduced his famous
projection, in which mendians and parallels of
latinade cross each other at right angles, both
being indicated by straight line. This projection
had the effect of greatly sim highing steering by

had the effect of greatly sin, lifying steering by compass.

Manadith, George (1888-1909), the most artistr of modern English novelists, and a poet of much originality. In 1889 he published his Croical of Nichard Fewers! which was a brillant and successful effort. Among his other great novels are Eussi Harrington, Rhode Hienburg, Hauchamp's Carver, The Egoist, Diana of the Crossways, and The Amasing Marriage. The literary and philosophical qualities are strong in all that Mr. Meredith has written. He was a member of the Order of Tabrit.

Marry Del Val, Cardinal (b. London, 1865), Poutifical Secretary of State, was educated in England during the time that his father was secretary to the Spanish Embassy in London, Has strong ultramontane leanings and exercises great influence upon the peap policy.

Manmer, Priedrich Anton (1733-1815), was a German doctor who founded the system of, mesmerism or animal magnetism, for which he claimed such curative power that he ultimately became to be regarded as a charlatan. He lived in England for a tame, but finally retired to Germany, and died there in obscurity. Mesmerism, however, was undoubtedly the father of hypnotism,

Mettermists, Frince was (1733-1839), a celebrated Austrian, statement and diplomatist, who for many years mail stand to have guided the solety of his country. We's was a powerful stores in the later career of Napoleon, it one time forwarding the aroungement for his marriage with Maria Louiss, at another bringing all his frequence to bear upon the combination which finally custed the simperor. During the commotion of right he resided in England.

Mayarbaar, Glacemo (1744-1844), was born in Germany, but spent most of his fits in Taglek, where he produced all his great operas, which include Robert Is Diable, "Lee Heguenots," "Le Prophète," and several others.

Michael Angelo Buonarrosti (1474-152), the renowned Italian pauter, sculptur and architect, whose genius was such a power in beautifying the churches of Rome and Florence. Was the last and in some respects the greators of the Italian aculptors; while his large pautings, particularly "The Last Judgment," executed for the Sistine Chapet, are no less famous.

less famous.

iess ramurs.

Michal, Louisa (1830-1905), a French teacher whe
took a very active part in the Commutal rising in
Paris in 1870, and was transported for life, but, belog
released in 1880, recommenced anarchical agitation,
and was more than once thrown into prison again,
Refusing to accept a pardon in 1885, she took up her
residence in London and continued from thence to

residence in London and continued from thence to disseminate inflammatory literature.

Riohelet, Jules (1798-1874), a spoted French historian and author, who, in addition to writing numerous popular general historian six enterprises and one moatmental sixtech-volume work on site annals of his native land, produced some tremarishly clewer studies of natural history and natural phenomena.

Midlaton, Viscount (b. 1856), better kriown as the Rt. Hon St. John Brodrick, entered Parliament in 1880, and became a prominent member of the Conservative party, being made Financial Secretary to the War Office in 1886, Under-Secretary for War in 1895, Secretary for War in 1895, Secretary for War in 1995, the Galidord Division from 1884 to 1996, and Secretary for India in 1997. He was M.F. for the Galidord Division from 1884 to 1996, and in the Liberal reaction he lost his seat. Succeeded his father as the 9th Viscount in April, 1997.

Division from 1882 to 1908, when in the Liberal reaction he lost his seat. Succeeded his father as the 9th Viscount in April, 1807.

History of British India and a frequent contributor to the principal reviews, his studies being chiefly concerned with political economy.

Mill, John Stuart (1806-1873), son of the last named, achieved high reputation by his numerous works on philosophical questions, and wrete, amongst other books, Principles of Political Economy, Exay on Liberty, Veittarianism, and England and Ireland. and Ireland.

Billais, Sir John Everett (1829-1896), was at one time the most prominent of the English pre-Raphaelite School of Painters, but soon cast hisséi."
froe from its mannerisms, and began the production of a long series of famous pictures, becoming the most popular artist of his day. His paintains serious amongst the most sought after in the Koyal Academy Exhibition through a long period, and we did some very excellent black and white work in Mantraidon of very excellent black and white work in illustration of Trollope's novels, Tennyson's poems, and in many other diffections. Was made R.A. is 1852. Among his numerous works we have only soom to mention "The Eve of St. Agnes," "Attunes, Leaves," "The Order of Release," "Effe Deans," "Chill'October," and "Bubbles," the last picture being purchased by Messre. A. and F. Pears, who accorded it the skill of the poster-printer was capable of, and spread it over the world, with the approbation of the planter. Crested a baronyst in 1885, and made Presidents of the Royal Academy a few months before his death. Biller, High (1802-1850), the fannous geologist who

une Koyai Academy a few months before his death.

Biller, Hugh 1803-1895), the famous geologis who
in his youth was a quarry-worker, but became editor
of The Witness, a Church organ, in step. After that
he published his Old Red Sandstone, Footprists of
the Creater, and The Testimony of the Recks. His
brain gave way through overwork in 1895, and he
committed suicide near Edinburgh.



Bubbles by Sindaha & Millain Gant BEA.

PEARS' CYCLOPAEDIA.

Millet, Jean François (1814-1875), one of the greatest of French painters of pastoral subjects; his celebrated work "The Angelus" is universally known by its numerous reproductions.

Minnan, Henry Hart (1792-1868), Dean of St. Paul's from 1840 to his death, was the author of several volumes of poems, of a History of the Frus and a History of Latin Christianity, all of which are highly esteemed.

Milmer, Yisoount, (b. 1894), was educated at Oxford and drifted_into journalism, being for some time on the staff of the Pall Mall Gazette. Was private secretary to Mr. Goschen (afterwards Lord Goschen) from 1887 to 1889. Under-Secretary for Finance in Egypt 1892-1897, after which he was appointed Governor of Cape Colony, and created High Commissioner for South Africa in 1897. Was raised to the peerage in 1907, and advanced to a viscountry the year following; published TreNation and the Higher, 1932. A Life of Lord Milner issued 1913.

Militades (d. 489 B.C.), one of the leaders of the Athenian army against the Persians at Marathon.

Milton, John (1608-1674), England's chief epic poet, whose "Paradise Lost" is the greatest poem of the kind in the language. Was made Latin Secretary to the Commonwealth by Cromwell after the execution of Charles; and wrote numerous historical, political, and devotomal works in addition to his poems.

of Charles; and wrote numerous historical, political, and devotional works in addition to his poens. In 1652 he became totally blind, and at his death was buried in St. Giles's Church, Cripplegate, London, a monument being crected to his memory in West-

minister Abbey.

Minto, Gilbert, 4th Earl of (1847-1974) K.G.,
Viceroy of India from the retirement of Lord Curzon
of Kedlestone in 1905 to 1910; liad previously served on Acadestone in 1005 to 120; and previously served with success for say years as Governor-General of Canada. He was an ensign in the Scots Guard, at twenty years old, and saw some soldiering thereafter in Turkey Afghunistan. South Aftica and Egypt, while he was also Chief of Staff in the N.W. Canadian Rebellion of 1885.

Canadian Rebellion of 1885

**Irabau, Gabriel, Comta de (1749-1791). one
of the prominent figures of the French Revolution,
and a famous orator. Had he lived a few year
longer he might have been strong enough to prewnt
some of the later excesses of the Revolution.

**Intford, Mary Russell (1787-1885), made a
name for herself by her sketches of rural life entitled Our Villare, a book whell achieved immense
popularity. She was also the author of several
novels and some tragedies, which were acted, but did

novers and some tragedies, which were acted, but the not prove any great success.

***Ithridates** (cirra: 133-63 B.C.), was King of Pontus from 130-63 B.C., and showed great capacity as a commander, conquering a great part of Asia Minor and Greece, and throwing hunself into conflict with Rome itself. He was ultimately defeated by Pompey, and three years later committed suicide.

and three years later committed succide.

Atodjeaka, Madame Helena (1844-1908), a
Polish actress of the highest ability, whose first
appearance in English tragedy took place at San
Francisco in 1889. She afterwards appeared in
Shakespearean and other exacting parts in London
and many other places, both in Europe and America.

Educated in a consect at fracto, her mailen name Educated in a convent at Cracow, her matten name was Opido, and she married her guardian, G. V. Modjeaka, when but seventeen years old. In 1898 she was married a second time, becoming the wite of Count Chlapowska, and resided mainly in California. Moffats, Robert (1795-1881), one of the most famous missionaries of the 19th century, whose work was chiefly confined to South Africa, where he laboured for many years with untring zeal. He was the author of several books, and father-in-law Dr. Livingstone. Educated in a convent at Cracow, her maiden name

Michammed (570-532), the Gunder of the Mohammeda religion, fled from Mecca to Medina in feaz, from which date the Mohammedan era opens. By his constant preaching and proclaming of the one god he gathered around him a vast number of followers and was able to return to Mecca eight years later, an acknowledged conqueror. His world-famous "Koran"—though presented by him

as an original revelation from the Angel Gabriel-may be traced to Biblical and rabbinical sources in

the mains
Mohammed V. (b. 1844), Sultan of Turkey, and
son of Sultan Abd-ul-Medjid, succeeded his elder
brother, Abd-ul-Hamdi II., in 1990.
Mollère, Jean B. (1622-1673), the greatest of French
come dramatists, who, from being a poor strolling
player, became the leading dramatist of his time.
His greatest comedies are "Le Tartuffe," "Le
Misanthrope," "Le Malade Imaginaire," and "Le
Médecin maigré lui."
Moltke, Field-Marchal Count Hellmuth won
(1800-1801, was the represence of the Prissan

(1800-1891), was the reorganiser of the Prussian Army before the Franco-German war, and Chief of the Staff in that war and its great guiding genius.

Hamman, Theodor (1817-1993), was a native of Schleswig, and while living in exile at Zurich—his advanced opinions having made him objectionable to his own Government—he wrote his famous Hastory.

to his own Government—he wrote his famous History of Rome, a truly monumental work, exhaustive, accurate, and powerful.

Mond, Sir Affred, Bart, (b. 1868), managing director of Brunner, Mond and Co., and prominently associated with other inclustrial enterprises. M.P. for Chester, 1906-10, and since 1910 for Swansea. Is proprietor of The English Review and one of the proprietors of the Westminster Gavette. An active Liberal and Free Trader.

Monk, Gangara Goorge, Duke of Albaryanta

Monk, Ganeral Goorge, Duke of Albemarla (1608-1670), was one of the most protainent men of the Cromwellian and Restoration periods of English history Attached to the Royalists at the outset, he afterwards went over to the Parhamentary Party, and was entrusted with the command of the army in Scotland. At Cromwell's death he again became

and was entrusted with the command of the army in Scotland. At Cromwell's death he again became a Royalist and took an active part in bringing about the Restoration of Charles II., convoking a Parliament and accepting the post of General of the Forces. Charles gave nina a dikedom.

Monmouth, Sames Duke of (1649-1688), a natural son of Charles II. Headed a rebellion against James II., but being insuccessful at Sedgmoor was captured and subsequently executed.

Montagit, Liedy Blarry Wortley (1689-1766), was a strong-inuded woman of literary tastes, who as the wife of Edward Wortley Montagi, Ambassador at Constantinople, had opportunities of studying Turkis! Hie and customs, which she afterwards numed to good account in her rell-known series of Turkich I-sters, wheir gained her the frenchship of Addison and Pope, and made her a celebrity.

Montalgine, M. de (1533-150.), a French essayist of world-wide celebrity, whose essays have been translated into every language; they are perfect in their beauty of style and felicity of expression.

Montalembert, Comte do (1800-1960), a French writer and politician who attracted much attention in 1811 by his violent opposition to Louis Napoleon. He was the author of the Life of Elizabeth of Hingary and several other important books.

Montalem, General (1712-1759), commander of the French Army in Canada in the link struggle for the

Hungary and several other important books.

Montoalim, General (1712-1759), commander of the
French Army in Canada in the final struggle for the
possession of Canada between the French and
English in 1766-1759, managing his forces with great
skill and gallantry at Oswego, Ticouderoga, and
Quebec, suffering final overthrow and death on the plants of Abraham when Wolfe, who was himself killed, won the victory which gave Canada to England.

England.

Monteflore, Sir Moses (1784-1885), a Jewish financier and philanthropist who devoted most of history library and property of the amelioration of the condition of his poorer Jewish brethren, and gave large sums. He was made a baronet in 1846.

Montespan, Marchloness de (1641-1707), was one of the favourites of Louis XIV., and from 1674 to 1679 held the chief place in the rather unstable affections of that monarch.

tions of that monarch.

French philosopher and author, whose book on the Spirit of Laws made a great impression, and whose Persan Letters was a brilliant it somewhat indelicate saure on the customs of the people of his day.

Montenuma (1466-1500) was Emperor of Mexico when Cortes invaded that country. He had lived in great state and magnificence and was accounted a wise ruler, but the conquering Spaniards made a prisoner of him, and he died from a wound received

phisoner or min, and the med from a would received while being rescued from captivity.

Sontfort, Silmon da, Barl of Leleaster (1206-1205), was a powerful baron, with liberal views, and a hatred of kingly tyranny. It was his bold action that forced Henry III, his brother-in-law, to grant the first English Parliament. He met his death at the Battle of Evesham.

montgolier, Joseph Michael and Jacques Ettenne, two French brothers who, during the last twenty years of the 18th century, denonstrated the practicability of a balloon infaired by heated air, making many ascents, and may be said to be the fathers of modern aeronautics.

inthers of modern aeronautics.

Montgomery, James 1777: 1854), an English poet whose works were of a highly devotional spirit. His best-known poems are "The Wantlerer of Switzerland" and "The West Indian."

Montrose, James Graham, Marquis of 1672-1659, devoted himself to the cause of Charles I.

and gained some notable victories, but after the King's surrender lived abroad for a time. In 1650 he invaded Scotland on behalf of the Stuarts, but was

invaled Scotland on behalf of the Stuarts, but was defeated, captured, and put to death at Edinburgh.

**Boody, Dwight L. (1837-1899), the American revivalist preacher, associated for many years in nulssion work on both sides of the Atlantic with Ira D. Sankey, the "American Singing Filgrim."

**Boore, Bir John (1961-1809), a British general who served in Holland, Egypt, and in the Peninsula, where he found humsell hedged in between two great French armies, led by Napoleon and Soult, and effected one of the finest refreats recorded in history, reaching Corunna successfully. Soult came up just as the British forces were about to embark, and a desperate battle ensued, Soult being forced hack while the British troops safely took ship. It was a victory, however, that was dearly paid for, Sir John Moore himself being slain.

**Soore, Thomas (179-1852), Ireland's greatest poet.

Gore, Thomas (1779-1852), freland's greatest poet, the author of "Irish Melodies," "Jalla Kooch, "The Epicurean," and many other works. He enjoyed immense popularity both in England and Ireland. Was the irlend and bographer of Lord

More, Hannah (1745-1833), was the authoress of many stories and essays, mostly of a religious character, but highly successful. She is said to have

many stories and essays, mostly of a religious character, but highly successful. She is said to have earned £30.000 by her writings.

Mere, Sir Thomas (140-1535), succeeded Wols by as Lord Chancellor under Henry VIII., but fell into disgrace by refusing to take the oath of Supremacy, and was ultimately executed. His Utopia is one of the world's noted books, describing an imaginary country, ruled on ideal principles.

Morgan. J. Pierpons [187-1973], one of the great financiers of his time, with banking concerns in New York and London. Among the giganhe undertakings which his controlled were the Steel Trust, the Atlanto Steamship Combine, and others of nearly equal magnitude. He bought many famous pictured (including Galmsborough's "Duchess of Devonshire"), and was a devoted Churchiman and a man of noble charity. The catalogue of his works of art, privately issued in 1903, is one of the costlest and most beautiful books ever printed.

Morland, George (1763-1804), a painer whose pictures of English rural life were remarkable for their fieldly and breadth of treatment, and are nuch valued. He was a wayward genius who entered fully into the spirit of the rollicking scenes of the country alehouse and village pastimes, and, in spite of much fine achievement, wasted what might have been a great artistic career.

of much fine achievement, wasted what might have been a great artistic career.

Morley, Viscount, of Blackburn, Lord President of the Council since 1701; Secretary for India from 1905 to 1910, when he resigned (b. 1838), author and statesman; in 1868 collect the Morning Statesman; from 1867 to 1883 edited the Forunghtly Review; was editor of the Pall Mall Gazette 1880-1883.

and in the last-named year entered Parliament, and was at once appointed Chief Secretary for Ireland with a seat in the Cabinet. His chief, Mr. Gladstone, was defeated in 1886, but returned to power in 1892, when Lord Morley again accepted the Irish Secretaryship. After 1896, but returned to power in 1892, when Lord Morley again accepted the Irish Secretaryship. After 1896 he and his party remained out of office, but the political loss was the public's gain. He was appointed a member of the Order of Merit in 1902, and in 1903 his 1186 Gladstone was the chief book of the year. His other works include monographs on Voltaire (1872), Rousseau (1873), Burke (1879), Walpole (1883), Cromwell (1900), and The Life of Cabdes (1881), Mr. Carnegie presented the late Lord Action's Library to Lord Morley, who gave it to Cambridge University. Lord Morley, tested the United States in 1904, and on the Liberals coming into power under Sir H. Campbell-Bannerman at the close of the year following, he became Secretary for India. Photed the Lords Veto Bill through the Upper House in 2017.

Morria, Bir Leavise (1803, 1907), a distinguished Weish poet. His best-known works are "The Epic of Ilades," which John Bright highly praised, and "Songs of Two Worlds."

Morria, William (1894-1896), the poet of the Earthly Paradise." Was also a Socialist and an art designer who did much for the improvement of domestic decoration.

art designer who did much for the improvement of

domestic decoration

domestic decoration.

Morse, Samuel Finley B. (1797-1872), an American artist and designer, who became the intentor of the Morse cystem of electric telegraphs, and of the Morse Code of Signals. He was the son of Jedediah Morse (1761-1866), a Congregationalist divine, geographer, and compiler of useful gazetteers.

Moshelm, Johann von (1764-1753), was a neted German theologian and historian, whose works were sendered into most European languages.

translated into most European languages.

translated into most European languages.

Motley, J. Lothrop (1814-187), historian and diplomatist. His chief work was the History of the Patch Republic, the result of ten years of persistent below. He was United States Minister to Vienna in 1861, and in 1879 Ambassador to England.

Mouteon, Fletcher, 1st Baron, P.C., F.R.S. (b. 1844) Educated at Cambridge; Senior Wrangler; Fellow of Chira's College; Q.C., 1885; sat in House of Commons for Clapham Division, 1885; 1886, South Hackney, 1894-1895; Appointed Judge of Appeal, 1905; Lord of Appeal in Ordinary since Aug. 1912.

Mount Stephen, Lord (1829,) formerly Fresident of the Canadian Pacific Railway; gave a large sum to various London hospitals in 1902, and helped the

of the Canadam Pacific Railway; gave a large sum to various Loudon hospitals in 1902, and helped the King's Hospital Fund three years later with an endowment of something like £11,000 per annum.

MOZERE Wolfgang **Amadeus** (1795-1791), the celebrated Austrian composer. Showed musical talent while very young, and performed in various capitals of Europe when only eight years of age. At twenty-five he accepted the position of musical composer to the Imperial Court of Vienna, then began to write operas, producing in succession the "Nozze di Figaro." "Don Giovanni." and "Die Zuberföte." He also wrote some beautiful Masses and a Requiem of unsurpassed beauty.

Mudie. Charles **Edward (1814-1800.) the founder, in 1842, of Mudie's Library, which revolutionised the reading opportunities of the middle classes, giving the command of the best new books of all kinds at a moderate yearly subscription, entailing orders to

moderate yearly subscription, entailing orders to publishers for thousands of copies of leading works

on publication.

on nublication.

Biller, George (1805-1808), was born in Prussia and removed to London in 1800, associating himself with Mission work; ultimately settling in Bristol, where he founded an Orphanage which cost £125,000, and is supported by voluntary contributions.

Muller, Friedrich Maximilian (1823-1900), usually known as Max Muller, came to England from Germany in 1846, and became Professor of Modern Languages at Oxford. He was a chief authority on Oriental manuscripts, and his books on philological subjects are standard works.

Mulready, William (1980-1964), an English painter and R.A. who was eminent in his day as a

painter of homely subjects. His "Choosing the Wedding Gown" is familiar to most people, from lawing been frequently engraved.

"Sunkacsy, "Michael won (1844-1900), a celebrated Hungarian painter who, working on a large scale and revealing powers of striking dramatic treatment, achieved marked success in lustorical subjects.

"Murat, "Joachim (1777-1875), one of Napoleon's most famous marshals, who married the Emperor's sister Caroline, and was made King of the Two Sicilies. Heafterwards commanded under Napoleon, but was defeated and lost ins throne. Later he was but was defeated and lost his throne. Later he was

but was detected and lost his throne. Later he was captured, tried by court-martial and shot.

Murchison, Bir Roderick (1792-1871), an emment geologist, whose researches and witings did much to popularise the science. He was President of the British Association in 1846, and of the Royal Geographical Society from 1857 to

Nordook, William (1754-1839), was a distinguished engineer and inventor, who for a considerable time was associated with Boulton and Watt at Birningham, and was of great assistance to Watt in working out

and was of great assistance to Watt in working out the steam-engine on a practical basis. He was also one of the hist to introduce gas highting.

Murillo, Bartolomé Estéban (1617-1621), one of the greatest Spanish painters. His chief works are altar-pieces and religious subjects. He also panted a number of marvellous studies of peasant life. Some 200 of his pictures are in England.

Murray, Lord, of Elibank (b. 1870), eldest son of Viscount Elibank. As Master of Elibank sat in the House of Commons tor Peables and Subject from

the House of Commons for Peebles and Selkirk from 1995 to 1910, and from 1910 to Aug. 1912 for Mullothian W 15 Comptroller of H.M.'s Household and Scottish W is Comptroller of H.M.'s Household and Scottish Liberal Whip, 1906: Under-Secretary of State for India, 1909-10; and Parlamentary Secretary to the Treasury and Clinf Liberal Whip, 1910-12. His acceptance of a position in the firm of S. Pearson & Son, Ltd, of which Lond Cowdray is the head, led to the resignation of his Parlamentary seat and his elevation to the peerige. Committee sat, 1914, to inquire into his Marconi speculations, and found nothing to his dishonour.

Hurray, Dr. Sir James Augustus (b. 1829), the distinguished philologist, and editor of the New English Dictionary, the most exhaustive work of the kind latherto issued. Was for some years an assistant master at Mill. Hill School.

assistant master at Mill Hill School.

Murray, Lindley (1745-1820) was an American
educationist of Quaker stock, who migrated from
his native country to England after the Declaration
of Independence. He lived for some years in a
cottage a little way outside of York city, and wrote
numerous educational works, including the fumous
volume which for a long period was the standard grammar of the English language.

French write of distinction whose essays and successful much to develop the magnative side of the literature of his native land. His brother

Paul (1804-1880) was also a novelist of note

Nadir Shah (1688-1747) became King of Persia in 1736, and distinguished himself by some remarkable conquests, including a victory over the Great Mogul and the capture of Delhi. He was assissiated by his nephew after a short but brilliant reign.

Nairne, Lady Caroline (1770-1845), a Scottish poetess who wrote several highly popular songs, including "Caller Herrin". "The Land of the Leal," and "The Laird o' Cockpen."

Mana Sahib (1821-1839), the Indian prince who led the rebels at Cawnpore on the outbreak of the Indian Mutiny, and was responsible for the trrible mussacre there. He musaged to escape, and his subsequent career is unknown.

Mansan, Fridtjof (born 1861), the Norwegian ex-

Mansan, Fridtjof (born 1861), the Norwegian ex-plorer who, after two or three expeditions across Greenland, in 1893 started out on his famous North Polar expedition, on which he was away three years, reaching the highest at 'itude thereto attained—

86 deg. 14 min. N.—a feat since eclipsed by the Duke of the Abruzzi and by Peary. He published a fascinating narrative of his exploration under the title of Farthest North.

Napler, Sir Charles James (1782-1853), a British general who distinguished himself in the Peninsular War, and afterwards in India, succeeding Lord Gough as Commander-in-Chief there in 1849

Mapler, Sir William (1785-1860), the historian of The Peninsular War and of The Conquest of Scinde, and an officer of distinction in the wars of which he wrote, was brother to Sir Charles James Napier, and

held seven decorations for gallantry in battle.

Napler of Magdala, Field-Marshal Lord
(18to-180), an eminent enguner officer, who did
splendid service in the Indian Mutny at the Relief of hucknow. It 1868 he commanded the Abyssinian. Expedition, and conducted the successful storming of Magdala. Was Commander-in-Chief in India in

1870, and afterwards Governor of Gibraltar.

Napoleon I. (1769-1821) was born at Ajaccio in Corsica. Sent to France to receive a mittary education and was a captain at the age of twenty. In 1794 served in Italy with such distinction that he won a generalship, and next year was appointed Commander in Chief. A series of most brilliant successes followed. He defeated the Austrian successes tollowed. He defeated the Austran forces in 1797, conducted an expedition to Syria and Egypt in 1798, returned in 1799 to find himself the most popular man in France, and in November of that year he proclaimed himself First Consul. In 1800 he was again in Italy and once more victorious. In 1804 he was made Emperor, and the following year was in the field against England, Russia and Austria, achieving a splendid series of victories at year was in the neid against Englond, Kursia and Austria, achieving a sphendid sense of victories at Austerlitz and elsewhere, and practically became Dictator of Europe, distributing king-linja aniongst his brothers in the most profuse manner, Joseph becoming King of Nolland, and Jerome King of Westplatla. In 1800, after divorcing his first wife, Josephune, he married Maria Louisa of Austria Subsequently he made serious blunders. His myasion of Russia was disastrous, the Peninsular War went against him, and in 1814 the Allies entered Paris and forced him to abdicate. He was sent to Elba, but made his escape in the following year, gathered his old army about him and went forth to meet the English and Prussian armues. He was finally completely defeated at Waterloo on the 18th June, 1815, and exhel to St. Helena, where he died six years later. His remains were removed to Paris in 180, and rest in a magnificent tomb.

Mapoleon II. (1811-1812) was the son of Napoleon I. and Maria Louisa. Was born in Paris and proclaimed King of Rome, but died of the sume of he.

claimed King of Rome, but died of consumption when only twenty-one, being known at the time of his demise as the Duke of Reichstaut.

Repoleon III. (1808-1873) was the son of Louis Bonaparte, King of Holland, and of Hortense, daughter of the Empress Josephine. According to the Napoleonic idea he became heir to the throne of France on the death of the Duke of Reichstadt. Made an attempt to create a popular movement in Made an attempt to create a popular movement in is favour in 1856 at Strasburg, but was taken prisoner and deported to the United Statess. In 1860 is made a second attempt at Boulogne. Was again captured and sentenced to imprisonment for life in the Castle of Ham. Six years later he escaped, disguised as a workman, and lived in London until the Boulouise of 1819, when he was glocked to the gussed as a workman, and lived in London until the Revolution of 1848, when he was elected to the National Assembly and a few months later became President of the Republic. In 1857 by his famous conf detail he obtained complete control of the Government and restored the Empire in 1853, brongles of 111. Married Eugénie de Montijo in 1853. In 1854 there was the Crimean War, when France and England were allies. In 1859 followed the war with Austria. In 1855 the occupation of Mexico came, and in 1890 the Franco-Prussian War, which carried the Second Empire down, and compelled Louis Napoleon to take refuse once more in

pelled Louis Napoleon to take refuge once more in England. He died at Chislehurst in Kent. Mapoleon, Victor, Prince (b. 1852) is on of the late Prince Napoleon and Princess Clotilde. Since 1891 he

has posed as the head of the House of Bonaparte. He

is exiled from France and lives mostly at Brussels is exited from France and tives mostly at Brissels.

Nares, Sir George (b. 1837), a retired British admiral, who took a conspicuous part in Arctic exploration helween 1852 and 1875, and commanded the Challenger expedition of 1873.

Nash, John (1732-1833), was a successful London architect of the Regency days, the designer of Regent Street, Buckingham Palace, and of Regent's Park and the corrections of the tasks the backets.

and the commanding terraces that border it.

Nash, Richard (1674-7162), was a man of fashion
who as "Beau Nash" held great sway at Bath for
many years, being "master of the ceremonies" there and social dictator.

and social dictator.

**Masnyth. James (1808-1800), the inventor of the steam-hannier, was a native of Edinburgh, but in carly manhood settled in Manchester, and there brought out his famous new tool, which became indispensable in all large iron and engineering works, and realised a fortune for the inventor.

**Nathan. Lt.-Col. Sir Matthew, K.C.M.G. (b. 1802), served with distinction in the Nile, Lushai and other expeditions as an officer of the Royal Engineers and manufed major in 1808. Governor of

and other expectitions as an officer of the Royal Engineers, and promoted major in 1808, Governor of the Gold Coast, 1900-1903, Governor of Hong Kong, 1903-1907, Governor of Yatal, 1907-1909, Secretary-General Post Office, 1909-17, and Chairman of the Board of Inland Revenue since not Lairman of the Royal Coast of Theorem of the German theologian and thistorian who wrote A Universal History of a Caristian Religion, in 5 vols., besides several other works.

several other works.

Mecker, Jacques (1732-1874), the father of Madame de Stael. Was Director-treneral of Finance to Louis XVI, from 1777 to 1781, and made stremous efforts to effect economies in the royal expenditure, which brought him into disfavour and he retired to Switzerland. In 1788, however, he was recalled and appointed Comptroller-General, but failing to obtain

appointed compromer-tentral, but aiming to not in assent to his proposals, he reinquished the position.

Nelson, Horatio, Viscount (1758-1805), the great English naval commander; son of a Norfolk clergyman. Went to see at twelve years of age, and was post-captain at twenty-one. In 1703 he was captain of the Agamemuon, and proved his capacity and daring against the French. He lost his right eye at the steep of Calvi in 1704, and is right arm at the daring against the French. He lost his right eye at the siege of Calvi in 1794, and his right arm at the siege of Santa Crux in 1793. In 1798 he achieved a great victory over the French in Aboukir Bay, in recognition of which he was created a Baron and granted a pension of £2,000 a year. He was victorious at Copenhagen in 1801, after which he was promoted to the rank of Viscount. In 1809 occurred the famous Battle of Trafalgar, in which the French feet was destroyed and Nelson was killed. He was bursed in St. Paul's Cathedral, and having no son to succeed him the pecrage was transferred to his brother, who became Earl Nelson, with a perpetual pension of £3,500 a year and a gift of £100,000 for the purchase of an estate. A Life of Nelson, by Lord Charles Beresford, formed the issue

of Pears' Annual for 1905.

Nero, Claudius Cessar (A.D. 37-68), the notorious Roman Emperor, whose reign of fourteen years was rendered infamous by his cruelty and licentrousness, Finally, he was driven from his palace and put an end to his life,

Morva, who became Emperor of Rome when old, regred from 66 to 98 A D. and in that short period introduced valuable reforms, aided by his adopted son, Trajan, who succeeded him.

Nastorius, founder of the Nestoriaus sect, was Patriarch of Constantinople in the 5th century, but was deposed for heresy on refusing to accept the divinity of the Virgin.

divinity of the Virgin.

**New111e, Sir Ralph (h. 1848), one of the Judges of the Chancery Division, was in Parhament from 1887 to 1895, and is charman of the Garden City Association.

**Newcoment, Thomas (1663-7173), was one of the first to put a steam-engine into practical operation, and in 1705 patented his invention, which was the pumping-engine used in Cornish mines down to the adoption of Watt's engine. He was originally a locksmith in Dartmouth, his native place.

Newman, Cardinal (1807-1890). Educated at Oxford, he was incumbent of St. Mary's there from Oxford, he was incumbent of St. Mary's there from 1283 to 1843, taking an active part in the religious discussions of the time, gradually showing a tendency to adopt Roman Catholic views, and ultimately allying himself with the Romanists, resigning his living and settling at Edgbaston, Birmingham, as the head of a community of the Order of St. Philip Neri. Here he remained for the rest of his career, devoting himself to an almost monastic life, but from time to time employing his nen in the production of religious, works disabsting monastic life, but from time to time employing his pen in the production of religious works, displaying great controversial power, beauty of thought, and charm of style. In his Apologue pro Vista Sua he described the development of his religious thought, and in other writings attained considerable distinction. He was the author of the beautiful hymn "Lead, kindly Light," and of the "Dream of Gerontius." In 1879 he was made a Cardinal.

Newnes, Sir George, Bart. (1851-1910), a well-known publisherand periodical proprietor, founder of Tut-But, the Strand Manasine, and many other monthles; also of the Westmuster Gazette. Was

monthlies; also of the Westmanster Gazetie. Was in Parhament from 1885 to 1893 and from 1900 to 1910. Newton, Sir Isaac (1642-1727), the great mathematician and philosopher. Was educated at Cambridge, greatly distinguished himself, and became M.P. for the University in 1688. In 1696 was appointed Warden of the Mint, and in 1699 became Master of that institution. Was President of the Royal Society 1793. Was knighted in 1795. His scientific discoveries were of the utmost importance withdust the law of craystation and the method

scientific discoveries were of the utmost importance, including the law of gravitation and the method of fluxions, while he also effected considerable improvements in the telescope. His numer in spiniosuphical works are wonderfully lucid expositions.

Ney, Marshal Michel (1760-1815), was one of Napulcion's most notworthy generals. After the Emperor's abdication Ney submitted to the Bourbons, but took up arms again for his old cluef, and fought for him at Waterloo'; attempting to escape to Switzerland, he was explored, truck, condemned, and shot in the Carden of the Luxembourg.

Nicholas: I., Czar of Russia (1760-1855). The son of the imperor Paul, he succeeded to the throne in 1825, and was a vigorous ruler and man of great ability. He was egenerally friendly towards England,

ability. He was generally friendly towards England, until the Crimean War made him a bitter enemy.

Nicholas II., Czar of Russia (b. 1898), son of the Emperor Alexander III. and of the sister of Queen Alexandra. Came to the throne in 1894, and has had a regn full of trouble abroad and at home. He has been quite unable, however well intentioned, to curb either the grand ducal party, the bureaucrats, or the anarchists

Nicholas, St., Bishop of Myra and patron saint of Russia, flourished in the 4th century, and is popularly associated with Christmas under the

orrupted name of Santa Claus

Nickson, Rt. Rev. G., D.D., Bishop of Bris. unce Feb., 1914 (h. 1804). Educ. Trin. Coll., Dublin;

since Feb., 1914 th. 1804]. Edite. Trin. Coll., Dublin; Coppus Christi Coll., Camb. Bp. of Jarrow, 1906-14; Evaniuming Chaplain to Bp. of Durham, 1901-8.

Nicholl, Sir W. Robertson, b. 1851 in Aberdeenshire and in 1874 was ordained to the Free Church ministry. Ten years later he liecanne editor of the Expositor, and in 1880 was appointed editor of the Braish Weekly. Dr. Nicoll is a prolific author, and hes written much and ably on religious and therary subjects. He also cluts the Bookman, the Woman at Home, and the British Monthly.

Nicolson, Rt. Hon. Sir Arthur, P.C. (b. 1849). Educated at Rugby and Oxford. Entered the diplomatic service in 1874, and held positions at various

Educated at Rughy and Oxford. Entered the diplomatic service in 1874, and hield positions at various embassies—Berlin, Pekin, Canstantinople, Athens, Telleran, etc., and was ambassador at St. Peterburg from 1906 to 1916. Made G.C.M.G. in 1907. In 1908 be succeed. St or Charles Hardinge as Permament Under-Secretary for Foreign Affairs. Has written a Hystony of the German Constitution.

Niebuhr, B. G. 1976-1831, was Professor of Roman History in the University of Berlin, and afterwards at Born. He obtained a world-wide reputation for

his History of Rome.

Mightingale, Fiorence (1820-1910) was a noted figure in the Crumean War, where she organised a band of nurses which did great service in relieving the sufferings of the soldiers. Her system was adopted and developed in all parts of the world, and she was honoured with a testimonial of £50,000, which she applied to the founding of the Nightingale Home for Nurses. The German Emperor conferred an order upon her in 1207, and in 1208 she received the freedom of the City of London. Order of

the frection of the con-Merit, 1907.

Milsson, Christine (b. 1843), the once famous prima douna, was born of humble Swedish parents, and her first efforts at singing in public were made at fairs in her own country while yet she was but a child. A wealthy gentleman, attracted by her fine voice, paid the cost of her musical education in Paris, and in 1864 she made her debut in that city, and at once was acclaimed a great singer. She became Countess de Miranda in 1887.

necame countess de Miranda in 1887.

Mithadale, Earl of (1596-1944), a Jacobite Scottish nobleman who took part in the rising of 1715, and was taken prisoner at the Battle of Freston. Condemined to death, he escaped from the Tower in woman's clothes and escaped to the Continent, dying at Rome nearly thirty years later.

Mobel, Dr. Alfred B. (1833-1856), the inventor of dynamite, was a Swedish engineer and chemist who approach a large fortune a great function of which at

dynamics, was a Sweinsen engineer and crimis who amassed a large fortune, a great portion of which at his death in 1890 he set apart as a fund for annual prizes to such persons as during each year shall have contributed most materially to the benefit of mancontributed most materiary to the breight of making. There are five of these prizes, each worth about £8,000, and they are given in the following departments: physics, chemistry, physiology or medicine, literature, and peace promotion.

Nof., General Count (1849 1912), a Japanese soldier who achieved great distinction by his able and successful conduct of the siege of Port Arthur.

and successini conduct of the siege of Port Arthur. It was a main of great simplicity of character, a poet, and a statesman, and startled the would when on the day of the functial of the blue Emperor of Japan he committed suicide, his wite sacrificing her life at the same time.—an old-time Japaniese pattions custom now seldom followed.

custon now settom followed.

Nollehens, J. (1727-1823), a Royal Academician who produced immerous sculptures during a long and successful career, and was said to have realised £200,000 by the exercise of his arr
Nordau, Max (b. 1820), an author and physician who is a native of Budapest and settled in Tairs in 280 where he has those saudat but have in contrast. 1880, where he has since resided and been an active literary force. His best-known works are Degeneration and The Drones Must Die.

Nordenfeldt (b. 1844) was born in Sweden and as the inventor of the Nordenfeldt machine gun, the submarme boat, and certain improved torpedoes has achieved a wide reputation.

-Pordica. Madame (1859-1914), au eminent vocalist

*Zordica. Madame (1859-1914), an eminent vocalist and operatur artist. She is a native of America. Her first operatic appearance in Loudon was made in 1897. Her great rôte was that of Marguerite. Norfolk, Duke of th. 1817), is Premier Duke and Earl, and Herchitary Earl Marshal of highand. He has filled many public positions both in and out of Parhameut, and served in the South African compangin as captain in the Imperial Ycomarry. From 1895 to 1900 he was Postmaster-General.

Bog to 1900 he was roomaster-general.

Norman, Sir Henry (b. 1858), educated at Harsard, Lepzig, and in France. Was an active journalist for many years, being connected at different times with the Pall Mail General, the Daily Chronicle and other papers, and in 1902 founded the World's Work He represented Wolverhampton South in Parlament from 1900 to 1910 and has sat for Blackburn since 1910. Knighted in 1900

Norman Neruda, Madame (Lady Hallé). Norman Neruda, Madame (Lady Hallé). North, Lord (1733-1792), was Prenner from 1790 to 1793, and responsible in great part for the American

1782, and responsible in great part for the America. War of Independence. Northolitte, Alfred G. Harmsworth, 1st Baron (b. 1865), one of the most prominent men in

modern journalism, and owner of a controlling interest in the Times. Started Answers in 1888 with his brother. Cecil Harmsworth, now M.P. for the Droitwich Division. In 1894 the Harmsworths purchased the Ivening News, of which they soon made a valuable property. In 1896 the Daily Mail was started, and became very successful. Lord North-cliffe, as the head of the publishing company which runs the various Harmsworth nublications and papers. runs the various Harmsworth publications and papers, has shown immense business apartude. Was rents snown immense business apitturic. Was re-warded with a larmetey in 1913 and elevated to the peerage in 1905. Has made his papers prominent during the war by a strong war policy. Northoote, Lord (1846-1971), son of the first Earl of Iddesleigh (4.72.) and Governor-General of the Commonwealth of Australia, 1903-1908. Norton, The Hon. Mrs. (1808-1878), was a grand during the first hard a market such a moralet where

doughter of Sheridan, a poeters and a novelist whose beauty and hteraty gifts won her renown. Nostradamus, Mishel de (1503-1506), a notorious astrologer and physicam, who attracted French Society by his many predictions, and euroched hun-

Society by his many predictions, and euroched hunselt by trading upon popular credulity.

Novalis (1772-1801), a Saxon poet, who enriched his country's hierature by anunder of poetic romances of great beauty. He has been styled the "German Pascal"; his real name was von Hardenburg.

Numa Pompilius was, according to tradition, the second King of Rome and the founder of Roman Cercuiontil Law. He is said to have reigned thirty-nine years in absolute peace in the 7th century before the Christian era.

Oates, Titus (area 1020-1705), a notorious informer agamst Roman Catholics in the reign of Charles II. agamst Roman Cathones in the reign of Canaly, it who was given a substantial pension for having, it was believed, exposed a plot against the King, but in the following year, on being discovered to have committed perjuty and forgers, which involved the proceduron, condemnation, and execution of a number of persons who were not guilty, he himself was pilloried and sentenced to miprisonment for life. When Wilham III came to the thrope, however, he

w. usrdoned and again grainled a life among.

Oberlin, J. F. (1340-1860), an Alsatian clorgyman

funed for his philanthropy and remarkable services

to the people of Waldbach, whom he ustructed in

agriculture industries, and other pursuits, and was

agriculture industries, and other pursuits, and was decorated with the Legion of Honori by Louis XVI O'Brien. William (b 1852). For years a promunent Nationalist leader, educor of United Its and, founder for the All for Ireland League, imprisoned in over two years. Published his Recollections in 1903, Retined from Parlament in 1904; re-elected 1910, histranged from the Redmondites. Resigned again ways, but seak the languagement.

Estranged from the Redmontities. Resigned again in rot, but re elected unopposed:

O'Brien, William Smith (1807-1804), was a noted firsh point al agatator, who sat in Pathament for a time. In 1848 he led an insurection ry movement of the "Young Ireland" party shich was quickly suppressed, he himself being arrested, tred for high treason, and sentenced to death. He was not executed, however, but subjected to transportation

executed, however, but subjected to transportation and received his freedom in 1850.

Ockharm, William of (1.70-1340), was an English scholar and philosopher who espoused the cause of Nommalism with sufficient success to create a philosophical school. He was styled "The Invincible Doctor," biological to the Order of Franciscaus, and for some time held a lectureship in the University of Disc.

sity of Paris

sty of Paris

O'Connell, Daniel (1775-1847), the Irish "Liberator," as he was called, was a famous orator and
politician and a highly successful barrister. In
Parhament he advocated the cause of Ireland with
courage and audacity. His agitation for Repeal was
namensely popular with his countrymen, but famine
and division did much to break his party up, and he
died an all man at Genna, having lost his graps on died an old man at Genoa, having lost his grasp on the "Forward" movement in the land of his birth. O'Connor, Feargus (1790-1855), an Irish lawyer

who became prominent in the Chartist agitation, and

who became prominent in the Charlist agitation, and sat in Parliament for a number of years. His eccentricities, however, were a hindrance rather than help to the cause, and led to disorderly scenes in the House of Commons, and ultimately he was found to have become of hopelessly unsound mind.

O'Connor. IT. P., M. P. (b. 1848), one of the most successful journalists and editors of recent years. Entered upon newspaper life in 1867, and after some strenuous struggling found employment in London in 1870 on the **Daily Telleyraph. Entered Parliament as an Irish Nationalist in 1880, and is there still. Sits for the Scotland Div. of Liverpool. Founded and edited successively the **Star, **Sun, II eckly **Sun, M.A.P.**, and other papers. Is an eloquent speaker and a brilliant writer, with broad sympathies and a knowledge of the world which he turns to good account. account

Oersted, Hans C. (1777-1851), the Danish philo-copher and scientist, whose discoveries in electrical research did much to help forward the invention of the electric telegraph. He was Professor of Natural Philosophy to the University of Cupenhagen.

Offa was King of Mercia from circa 757 to 766, and had a warlike career. After considerable conquests

nad a warner career. After considerable conquests in Wales he built an embankment from the Dee to the Wye, 100 miles long, which was called Offa's dyke, fragments of which still remain. He imposed "Peter's Peine" as a gift to the Pope for absolution.

Offenbach, Jacques (1859–1860), was a mative of Cologue, but settled in Paris in 1833, and Ince there for the rest of his life. He was an accomplished conductor and converse unit for a time an extension.

or us rest of ms life. He was an accomplished conductor and composer, and for a time was exceedingly popular. His burlesque operas were the cleverest things of the kind that Lad been written, and were played in every part of the world with great success. His chief compositions were "La Grande Duchesse," "La Belle Hélène," "Orphée aux Enfeis," "Madame Favart," and "Genevieue de Brabaut". "Genevieve de Brahant."

Oglethorpe, General (1/68-1785), was the founder of Georgia, George II having granted him a large act of Colonial land to be used as a settlement for xiled Germen Protestants and English delitors.

Ohm, George Simon (1787-1854), was the discoverer of the unit of electrical resistance, which is kn win as a law. He was a native of Bavara, and gained

much fame as a physicist and mathematician.

Oku, Count (b) 1848, is the noted Japanice general who, for his services against China in 1894, was reated Baron. At the outbreak of the war with Russia in 1904 he was appointed to the command of the second army. He captured Kinchan in May, 1904, and from that time forward distinguished hunself by successive victories, taking conspicuous part

self by successive victories, taking confucuous part in the Battle of Laruyang.

Olaf, St. (205-1034), the first Christian King and patron saint of Norway. Was on the Nowegnan throne when Ethelred was King of Ibitani. A soldier of great prowess, dethroned by Canute in 1029, and subsequently slain in battle.

Oldeastie, Str John (136-147), became known as "the good Lord Cobham," having married the herress of the peer of that name. Distinguished hurself in arms under Henry IV, and V, but fell into disfavour because of the warnth with which he advocated the doctrines of Wyolf, for which he was burned to death as a heretic.

Oliphant Learenoed (1820-1888), was educated for

Oliphant, Laurence (1829-1888), was educated for the Bar, but drifted into anthorship and jorgialism, and wrote several notable books. Sat in Parliament and wrote several notable books Sat in Parliament from 1865 to 1868. In 1870 published Pacadelly, a brilliant satirical nevel. Was Correspondent to The Times during the Franco-Cernian War, and afterwards; and, coming under the influence of Thomas Lake Harris, the American spiritualist, he became lost to the world of letters and subsequently took up the scheme for the colonisation of Palestine for the

Jews, dying—after a residence for somet time near Mount Carmel—at Twickenham.

Oliphank, Mrs. Margaret (1828-1897), a remarkably prolific novelist and writer, some of whose stories achieved deserved popularity, notably The Chronicles of Carlingford, Salem Chapel, and

The Marriage of Elinor. She also wrote numerous historical and critical works and biographies, besides

nstortar and tried worst and objectants, occasions some popular books for children.

Olivarez, Count (1587-1645), was a famous Spanish statesman, who from tozz-1043 controlled the attains of his country, but his tyramy caused the rebellion which led to his banishnent.

Omar I. (501-644) was second Caliph of the Mohammedans, and the first to be designated the Commander of the Faithful. He conquered Syria,

Mesopotamia, Persa, Egypt, and Palestine, reigned from 634-64, and died at the hands of a slave. Omar Khayyam four-filed in the 11th and 12th centures. Was the great Persan Poet whose "Rubanyat" was made known to English readers by Edward integrald in 1850. The mixture of mysticism and philosophy contained in this work has a peculiar charm and fascination, and numerous Omar Khayyam. societies have been formed in langland and America.

Omer Pasha (1806-1871), a Turkish general who detunguished himself in the Crimean War, defeated the Russians at Empatoria in 1855, and fought against the mangents in Cicle in 1807. He was an Austrian.

Onalow, Earl of (1853 1971), fullified several diplomatic and monatorial and municipal and municipal and municipal and mangents.

diplomatic and monasterul appropriments, having been twice Under Secretary for the Colonies, Under-Secretary for India, and President of the Board of Agriculture. Was from 1888 to 1892 Governor of New Zealand, and in 1905 received the appointment of Chairman of Committees in the House of Lords.

Opie. Amelia (1700-1853), an lengtish nove ist and

Opie, Amelia (1700-1853), an inglish nove ist and writer of sentine near stories which had considerable regue for a period. She became a Quakeres, in 1825, and was the wife of John Opie, the artist, whose Lectures on Franciscopies and policy on the stories of the most o vesauce-After." He was born in Edinburgh. His son Charles (b. 1877) is a subject painter of ability who has also distinguished himself in portraiture.

who has also distinguished innself in portiature.

O'Rell, Max (148) 1993, the penname of Paul Bluuet, a French writer, journalist, and teacher of French, whose 76h Bull and Ills Island was one of the most popular books of the time.

O'léans, Duo d' (h 1869), is, the chief of the Rourbon-Orleans family and cliest son of the late founded by the Hamman of the hat he best asset.

Comte de P. 118 He was married to the Archduckess Marie Dorother of Austria in 1896. In 1386 he was exiled from I rance, and a subsequent visit to Paris

cailed from I rance, and a subsequent wait to Paris subjected that to second capasion. He has we red as a subter in Irdia, and has a house at Wood Norton.

Orsini, Felice (120;-1258), an Italian patriot and revolutionist who, being convicted of an attempt with explosive bombs in 1558 upon the hie of Napoleon III., was executed along with his follow conspirator, Pierr, in Paris.

Osler, Bir Wim., Bart. (h. in Canada 1849), Regius Professor of Medicine, Oxford University, since 1000: has had a distinguished carrier and been

Reguis Professor of Metiteme, Oxford University, since 1905; has had a distinguished career and been honoured by many Universities in Canada (where he was born), the United States, and Great Britain. Is author of numerous medical works, including A System of Medicine, in 7 vols.

Osman I. (1259-1350) was the leader of the Tariar forces which overrun the Eastern Roman provinces in 1290, eventually, etting there and establishing the Ottoman rule. He was a native of Bithyma.

Carran Diffus (h. 850, a. Soundances robel general

Osman Digna (b. 1836), a Soudanese rebel general who for many years commanded the army of the Mahdt, and showed bravery and tactical skill mopposing the Egyptian and British forces. After the defeat at Omduman his career was at an end, He has since been a military prisoner at Halfa. Osman Pashs (1835-1970) was a famous Turkish general who achieved renown in the war with Servia in 1870, and in 1877 conducted the splendid defence of Plevna against the Russians.

on Frevita against the Russians.

Onward, Bet., King of Northumbria from 625 to 642, added by St. Alidan, established Christianity amongst his subjects. He was slam in battle with Penda, King of Morcia.

Ottley. Rear-Admiral Sir Charles L., R.N., M.V.O. (b. 1853), served with distinction in the Navy, in the many seas and numerous engagements; from 1890 to 1903 was Naval Attaché to the Maritune Courts and served in that apacitiv in Juan, Russia, Italy and the United States. Was Secretary of the Committee of Imperial Defence, and acted as British Naval

mattee of Imperial Petence, and acter as British Nava.

Representative at the Hague Conference of 1907.

Olway, Thomas (1651-1687), an emment English iramints whose tragedy "Venice Preserved "is still occasionally performed. He died in destitution.

Ouida," (Mis. Louise de la Ramé), an English novelist (1840-1978), born at Bury St. Edmunds of Frenc'h extraction, whose works have been highly popular. Many of hir stories glow with passion and noe irv, and there is a dwax a remainte setting fo. pocity, and there is always a romantic setting for them. Her best-kno. vervels are Uniter Two Flags. Moths, Handa, and source. In 1997, she was them. Her brest-Phos. reprodes are Uniter Two Plays.

Moths, If lands, and scarrel. In 1997, she was found to be living in strattened circumstances in an obscure Italian town. A Civil List pension of £150 was granted to her in 1978. She duel in 1968

Ouseley, Rev. Sir Frederlick Gore (1825-1886) was a well-known organist and composer of music, mostly for the Church le was also the author of several technical books on in sic. His ...ther was Sir Gore Ouselev (1726-1834) who was on a Mulsica-law.

Sir Gore Ouseley (1770-1814), who was our Ambassador in Persi i in 1810; while the brother of the latter, Sir William Ouscley (1907-1812) was at a distinguished breatalist. Another diplomatic cybrity of the tanuly was Sir William and cousin of Sir Frederick

Outram, Sir James (1803-1803), a famous British Generil, who served with spleaded castaction in Italia for the greater part of his fit. He went through the Mutan with conspicuous heroism and also achieved renown in the Afghan and other campaigns. The brightest hunds were won in the rebef, defence and capture of Lucknow, and when he ded he was given a public funeral in Westimm ter Abbey, a striking monument being creeted to his memory

a striking monument being erected to his memory on the slab covating his grave in the Nave he is described as "the Bay ard of balan".

**Overbeck, Fraderfork Johann (1785 1886), a native of Litbeck, and leader of the artistic school which aimed at the revival of the pri-Renaissance style of paieting scriptural subjects. Although he had a hard struggle he ultimately wan success, and had his frescots and paintings are now highly valued.

**Overbury, Bir Thomas 1, 58: 4633, a man of note and infinence in the time of James I. Incurring the hatred of the Count is of I see a sud her lo er, Carr, ciff King's favoarite, by cadeavoring to brevent the

hatred of the Counte so 1.1 See a mainter at the source of the King's favourte, by cadeavoning to prevent the Countrest pracuring a divorce and marrying Curr, the pair obtained Overbury's commir all to the Tower, added he are afterwards from possened. They where found guilty of the trunc, but their only punishment was banishment from Court

Ovid (43 B C -A.D. 18), the funous Latin poet (Pablus Ovidius Naso), whose "Metamorphoses" and "Art of Love" are among the leat known examples of Roman Interature of the lighter kind He died in

banishment

Owen, Bir Richard (1804-1892), was superintendent of the Natural History department of the British of the Natural History department of the British Museum, and a biologist who did great service to science by his numerous works. He declined the theory of organic evolution, but where his research did not conflict with the opinions of the more modern school of scientists he was a successful and esteemed worker, and was re-koned by many the greatest paleontologist since Cuvier.

**Dwan, Robert (1971-1855), Socialist and philanthropist, devoted his life and fortune to the carrying out of his theories, and established socialistic colonies in Lanarkshire, Hampshire, and America, which, although at times very promiseful of success, had

ultimately to be shandoned. His book, New Vices of Human Society, published in 1812, aroused considerable discussion. His son, Robert Dale Owen (1801-1871), was also a social reformer, who became a spiritualist, and was for some time prominent in American politics as a slavery abolitnonist. Oxford, Bishop of. [See Gore.] Oyama, Field-Marshal Prince (b. 1844), was Japanese Minister for War in 1894, and commanded the Second Army in the Japanese war with China. In the Kutso-Japanese War he held the cheef command, and displayed remarkable military power. He had under hun about 200,000 men at the Battle of Lidu-yang, where he socred a great victory; while at the Battle of Sha-ho he had a still greater force and attained a further trumph. and attained a further triumph.

Paderewski, Ignace Jan (b. 1860), the celebrated plantst and composer who was born in Russian Poland. Could play the plane at three, at seven was placed under an able teacher, and in a few years made public appearances. It was not un'il 1890 that

nadic public appearances. It was not un'il 1890 that he made his first appearance in London.

Paganini, Nicocio (1784-1840), a tamous volunst, and one of the most expert performers on that instrument who ever hield. Wherever he played he created a great sensation, and accumulated a fortune of £200,000 at the reward of his genus.

Page, Walter H. (h. 1855), United States Ambassador to treat Button some rota, and a member of the mile.

age, water rath, 1955), Onlice States Annissator to Great Britan since 1973, and a member of the jubilishing fine of Doubleday, Page & Co., New York. Has edited The Forum, the Atlantic Monthly, and the Bond's Work (New York).

Paget, Sir James (1814, 1869), a great surgeon who was Sergeant-Surgeon to Queen Victoria, and stood at the head of his profession in England. Was coated a barone, in 1871, and Fresident of the Royal

College of Surgeons in 1875.

Palne, Thomas (1737 1800), a noted writer on political and rengious subjects, whose Kit his of Man consett great commotion who republished in 1791, and led to ins prosecution for blaspheniy. He escaped to France, and was made a member of the National Convention. In 1794 his Age of Reason was published, and again his opinions roused strong opposition. From 1842 he lived in the United States.

Palestrina, Giovanni (1524-1504), a distinguished Italian musical composer, chiefly of Church music, all of which was marked by strong spiritual fersour. In 1555 he con posed three Masses at the direction of the Council of Trent which set the standard of ecclesiastical music of that description.

ecclesiastical nusic of that description.

Paley, William (1743-1804) a lanous divine and writer on religion and philosophy. His Evidence of Christianus, and Elements of Morat and Political Philosophy cannel him a great reputation.

Palgrave, Sir Francis (1788-1801), a much externed historian, who wrote The Rise and Progress of the English Commonwealth, if History of Normandy, and A History of Normandy, and A History of the Anglo-Saxons. He was knighted in 1812. He son, Francis Turner Palgrise (1824-1894), was a poet of devotical instincts, who was Professor of Poetry at Oxiond, and edited the much-esteemed Goain Transaury. Another son, William Gifford Palgrave (1826-1888), was a traveller, dislonants, and proce writer of considerable ability. diplomatist, and prose writer of considerable ability.

Palissy, Bernard (arra 1510-1580), was a dis-tinguished French potter, who after years of struggle and self-denial discovered the art of producing white enamel, after which he became famous and set up a enamel, after which he became famous and set up a porcelain factory in Paris, which was patronised by Royalty. Embracing the Reformed religion he narrowly escaped destruction in the massacre of St. Bartholomew. He was thrown into the Bastille in 1588, and died in that prison the year following.

Palladio, Andrea (1518-1580), the great Italian architect, who introduced the style of architecture known as Palladian, which was long considered the most perfect exposition of the art. His masterpiece is the Church of the Redeemer at Venice.

Pallas, Peter Simon (1741-1811), a German

traveller and naturalist, who was employed in the service of Catherine of Russia in various expeditions,

service of Catherine of Kinska in vations expectations, which resulted in many important discoveries in Sberia and the Caucasus.

Pallisez, Sir William (1890-1882), was for many years an active worker in the field of gun and projectile manufacture. The Pallisez gun was famous in its day, and was introduced about 1870. It was of cast-iron external construction, lined with a tube of wrought iron, and served to convert the old smooth bore guns into railed arms. Sir William also invented Palliser shot.

Palmer, Sir C. M., M.P. (1822-1907), was the founder of the great shipbuilding works at Jarrow which bear his name. He became connected with which bear its name. He became connected with the coal industry while young, and was promited to begin shipbuilding in order to solve the problem of conveying coals to London with greater celerity than had theretofore prevailed. He huit an iron screw steamer capable of conveying 500 tons of coal to the capital, and not long afterwards had a considerable fleet of steam colliers afloat. Sir Charles may be said to have built Jarrow, and was its first mayor. The

to have built Jarrow, and was its first mayor. The firm's works cover over 100 acres, and they now construct the heaviest class of battleships. Palmer, Edward Henry (1840-1882), a noted inguist who did valuable work for the Palestine Exploration Fund in 1868-1872, and later entered the service of the British Government and was employed in various negotiations with Oriental races. killed by natives of the Sinai Peninsula in 1882.

Paimer, John (1742-1818), originator of the mail-coach postal service in 1782. Being promoted to the Post Office secretary-ship, he was the means of introducing many important reforms, and was rewarded with a grant of £50,000 and a pension of £3,000 a year. He was originally a theatrical

rewarded with a grant of £50,000 and a pension of £3,000 a year. He was ongmally a theatreal manager at Bath.

Palmerston, Wiscount (1784-1865), was a distinguished English statesman, who entered Parhament in 1807 and sat almost continuously, for one constituency or another, until his death. Before the passing of the Reform Bill he was a Conservative, but afterwards joined the Liberals, and was for the best part of his career in office. In 1807 he was a Jumor Lord of the Admiralty; from 1800 to 1828 was Secretary for War. After that served in 1805 in 1859, and First Lord of the Treasury in 1855. In 1859, after being defeated the previous year, he was avain Frime Minister and remained in that office again Prime Minister and remained in that office until his death. He was buried in Westminster A bbev.

Pangras. St., the patron saint of children, was the son of a Roman noble, and came to Britain in the reign of Diocletian, where he was put to death at the age of fourteen for refusing to renounce Christianity.

Panizzi, Sir Antony (1797-1879), an Italian pointical exile, who in 1831 was appointed to the Assistant Librarianship and Keepership of the Printed Books of the British Museum. In 1856 he became Principal Librarian, retiring in 1806, after which he was made K.C.B. The great Reading Room was constructed from his designs.

Paoli, Pasquale (1792-1807), a noted Corsican patriot who fought gallantly for his country's freedom, but was compelled to take refuge in England. He was buried in Old St. Paicras Churchyard, in London, but his remains were afterwards

noved to Corsica.

Papin, Danis (1647-1714), a French mathematician and scientist who settled in England and made a considerable reputation in scientific (ircles. He invented the condensing pump, and was the first to use a safety valve. His discoveries in connection with steam power entitle him to be reckoned amongst

with the first to put that power to any practical test. He was, for a time, Curator of the Royal Society.

Paraclesus, Philippus A. (1493-154'), was a famous Swiss mystic and alchemist, and for a time was Professor of Physic and Surgery in the University of Basle. His skill in medicine was undoubtedly great, but he forsook the beaten track, and devoted the preater part of his life to experi-

ments in alchemy, in the course of which he made numerous important discoveries, being the first to

numerous important discoveries, being the first to employ laudaium and antimony in pharmacy. Parks, Matthew of (1795-1259), a Benedictine monk of St. Albans who wrote a History of England from 1066 to 1259, a book which is of considerable value. He owed the name by which he became known to his early studies in the University

Park, Mungo (1771-1806), a famous British traveller who in 1799 published an account of his Travels in who in 1799 particles an account of its 7500000 which caused a considerable sensation and was highly popular, recounting as it did many would rill stories of adventure in a then inkinown part of the work. He explored the Gambia and the Niger and was drowned in the latter river during an attack upon his cause by hostile natives

came by nostile natives.

Parker, Sir Gilbert (b. 1862), a Canadian-born novelist who, after a journalistic career in Australia and elsewhere, went to London and soon acquired a considerable reputation as a writer of skilful stories. His earlier novels deal with French-Canadian lite in a telling and picturesque mayner. In later years he has changed the scene of his stories somewhat. He was kinghted in 1900, and since then has sat in Parliament for Gravesend in the Conservative interest.

Parker, Joseph (1870-1902), a popular Noncon-formst preacher and author, who settled in London in 1800 at the Poultry Chapel, and became an active force in the religious work of London. He built the City Temple, and ministered there up to the time of his death. His vigorous preaching alw ...ttracted

his death. His vigorous preaching alw ... ttracted large congregations. Dr. Parker was to e Chairman of the Congregational Union.

Parker, Matchew (1504-1575), was Archbishop of Canterbury from 1550 until his death. He superintended the translation and production of what is called the Bishops' Bible, and also had a great part in the preparation of the Book of Common Prayer.

Parker, Theodore (1810-1806), a distinguished American Unitarian Minister and writer, who figured prominently in the anti-slavery agritation, and

prominently in the anti-slavery agitation, and published a number of works on religious subjects, remarkable for their advanced opinions.

remarkable for their advanced opinions.

Parkes, Gir Henry (1835-1896), was born in Warwickshire, and emigrated to New South Wales in 1830. He had a struggling life for a time, but, showing much ability for the discussion of public questions, he was returned to the Legislative Council in 1854. Made a member of the Munistry in 1866, he sub-equently filled the post of Premier of New South Wales five times.

Parkman, Francis (1823-1893), an American his torran, born at Boston, Massachusetts, whose works mainly deal with the history of Canada. His Pioneers of France in the New World and The Old Regime

in Canada are standard works

Parnell, Charles Stewart (1846-1891), a distinguished Irish Nationalist politician, who for ten years, from 1580, was leader of his Party, and made years, from 1880, was leader of his Party, and made it more powerful than it had ever been before. He succeeded in winning Mr. Gladstone's confidence, and so was largely responsible for the Home Rule policy which that statesman adopted towards the end of his Parlamentary career. Parmell suffered imprisonment more than once, and his supposed completing Irish political crinic led to the famous charge made against him by The Trinics, which became the subject of a memorable trial in which Parmell was acquitted, afterwards obtaining damages to the extent of Issacon. This was in 1800, and was rannen was acquirted, sites wants obtaining damages to the extent of 25500. This was in 1890, and was quickly followed by a divorce trial which resulted in his being deposed from the leadership of his Party. He never recovered his lost ground, and died in 1890 a broken suid disheartened man.

Parnell, Thomas (109-1718), an Irish ecclesiastic and poet, who was held in high esteem, and wrote numerous pieces of the ballad order with no small success. His chief poem was "The Hermit."

Parr, Samuel (1747-1825), was a famous if dogmatic scholar and cleric who wrote largely on educational questions. He held the living of Hatton in Warwicke shire for forty years.

Parr. Thomas (1483-1635), the most famous of English reputed centenarians, known as "Old Parr." said to have been born and to have died in the years given, but on later evidence adjudged untrustworthy, though he was certainly a celebrity for a long period prior to his death. He was buned in the South Transept of Westminster Abbey, his gravestone recording that he lived in no less than ten reigns.

Parrhasius was a famous painter of ancient Greece, of whom the story is related that he starved and tortured a man to death in order to portray with the fullest possible realistic effect the final places of

tured a man to death in order to portray with the fullest possible realistic effect the final phaces of mortal agony. He lived about 450 B.C.

Parris, Samuel (1653-1720), an American Congregational minister who was concerned in the prosecution and execution of twenty persons for alleged witcheraft at Salam in Massachusetts in and about the year 1092, and was afterwards dismissed from his church for his share in these atrocious so-called iudicial murders

pudician nurrours

Parry, Sir Hubert Hastings, Bart. (b. 1848),

Professor of Music at Oxford and Ducctor of the
Royal College of Music. A profife composer of
numerous odes, cantuts, and other musical works, and an acte writer on musical subjects, has Studies of Great Composers and Art of Music being amongst the chief works of their class in modern literature.

Parry, Rear-Admiral Sir William Edward (1790-1855), an Arcue explores and naval commander of great distinction, who undertask seasons. and an able writer on musical subjects, his Studies of

great distinction, who undertook several expeditions to the Polar regions and made numerous apportant dos. ... Was knighted and appointed

steam turbine which has elected a reinstraine in provement in the propulsion of war and increantile vessels. Is a C.B. and F R.S. Partiridge, Bernard (b. 1861), was educated at Stonyhurst and began life as a stained glass-designer, afterwards working at book illustrativis, then for a time was on the stage; but since 1891 has been one of the chief artists on the staff of Pinich.

Pascal, Blaise (1623-1662), a noted French philoso-phic Letters exhibit remarkable

I genus, and have been translated into all European Languages. He was a distinguished mathematician, and invertical an ingenious arrivantenamenine, hesades making many brillent experiments in hydrostatics and pneumatics.

Pasteur, Louis (1822-1895), an emment French chemist and scientist, whose researches in connection with hydrophobia, bacteriology, and the specific germs of cholers and other diseases, have been of immeuse benefit to human kind. He was elected a member of the Academy of France in 1889, and in his later years the Pasteur Institute founded by him in Paris

ratained nuiversal celebrity.

Paterculus, Calus V., was an eminent Pomar historian under Angustus and Tiberais. Such fragment of his work as have been preserved are held in the control of the control high esteem, though his narrative does not extend

later than A.D. 30.

Paterson. William (1605-1719), a Scottish financier who founded the Bank of England, and originated the famous Darien colonisation scheme, which resulted disastrously.

sulted disastronsly.

Paterson, William R., M.A. (b. 1871), a novelist of considerable grift, who writes a: "Benjanun Swift."

His Nemesty of A riven's (1907), I've De vih Man (1902), and Lady of the Vight (1913), are excellent examples.

Patmore, Coventry (1823 1896), was a much appreciated poet of the Victor, a era, whose "Angel in the Home" ranks deservedly high among modern resets a theorements.

in the Honse "ranks deservedly high among modern poetrs a therements.

Paton, Sir Nesi (1821 1991) sculptor, historical artist, archeologist, and poet, was a vative of Danfermline. In 1835 he gained the premium in the Westminster Hall competition for his fresso "The Spirit of Religion." He became later Linner for Scotland to Queen Victoria, and devoted himself mainly to fairy and sacred subjects, and won great

success by his well-known pictures "The Pursuit of Pleasure" and "Mors Janua Vitæ."

recess by nis well-known netures." The rursuit of Pleasure' and "Mors Janua Vite."

Patrick, Bt. (crica 373-46), the patron saint of Ireland, concerning whom many miraculous stories are related, such as his reputed extermination of serpents from the island. He carried out a Christian mission, extending probably over about forty years, amongst the Irish with great success, was consecrated bibliop in 447, write a Confession and an Epistle, and upon dying at an advanced age was buried at Downpatrick. St. Patrick's day is March 17th. Patteson, John Coleridge (18:7-1871), after a birliant career at Oxford took holy orders and became greatly interested in mission work, being for some years associated with Bishop Selwyn in religious work in the South Seas. In 1867 he became Jishop of Mielanesia, where for ten years he served with signal success, but falling in with a savage band on one of the Santa Cruz islands was murdered.

Pattl. Adelina (Evrouses Cederstrim), was born in

Patti, Adelina (E-troness Cederströn), was born in Madrid in 1843. Went to America while very young, and first appeared in 1850 m. "Lucia di Laminer-moor," in New York. Her marvellous voice and brilliant execution made her memediately famous. She went to England in 1861, and from that time for many years was the unot popular prima donne of the time, appearing in Loadon, Paris, Berlin, Rome, Venna, etc. with trimiphant success. Of late years she has practically lived in retirement at her castle-home, Craig Y Nos, in Wales, only occasionally reappearing at concerts. Had a tremendous recytion at a "fareweil" concert in the Albert Hall, London, in 1906.

Pattison, Dorothy Window (1832-1878), a sister of Mark Patison, who devoted a great part of her life to hospital work in Walsall, where she was known as "bister Dora," and was revered for her samily life and devotion to the sick poor.

Pattison, Mark (1813-1884), was connected with She went to England in 1861, and from that time for

samily lit. and devotion to the sick poor.

Pattison, Mark (his-1884), was connected with
Lincoln College, Oxford, from 1839 until his death,
and gave much time to literary work, writing,
amongst other books, A Life of Isaac (asaulors,
A Life of Militon, and his own Memory. He
married Emilia Francis Strong in 1801, she after
wards becoming Lady Dilke. His semions exhibited
a tendency to rationalism, and his contribution to the
Grangus Recover and Remover in 1800 made him famous Essays and Remems, in 1860, made him thereforward a man of intellectual mark.

Paul, Herbert (b. 1853) Educated at Oxford Sat

Paul, Histheri (b. 1853) Educated at Oxford S. St. in Palliament from 1850 to 1880 for South Eddinburgh, and for Northampton from 196 to 1910, and swritten much on the 1-theral side of politics, besides producing a very able History of Modern England. 18: 1st, of Fronde was published in 1905.

Paul I. (1754-1801) was Emperor of Russia for the last five years of his life. His overhearing temper and despote acts caused him to be hated by the publics, who mit bur to death by structuring.

nobles, who put him to death by stranging.

nonies, who put him to dean to stranging.

Paulus, Heinrich E. G. (1961–188), the celebrated German theologian and scholar. Was a native of Leonberg, and, besides filling professional positions at the Universities of Jena, Wur, burg, and Hudelberg, wrote numerous rationalistic works.

Pausanias was a successful Spantan general who captured Byzantium from the Persans, 499 B.C. He was abbequently, acquised of teamon and taking a superior of the part of the par

was subsequently accused of treason, and, taking renge in a temple, was allowed to starve to death.

Paxton, Sir Joseph (1803 1865), was head gardener to the Duke of Devonshire at Chatsworth, and, having acquired a great reputation for his effective building of glass structures, was employed to design the fabric of the first great exhibition in London in 1857, subsequently set up at Sydenham as the Crystal Palace. Was kinghted in 1851, and sat in Parhament for Coventry from 1854 to 1854.

Payn. James (1830 1898), a prolific and popular novelst, who edited Chambers's Journal for sixteen years, and the Cornhill Magazine from 1892 to 1896. He was a racy story-teller and possessed a fund of quiet humour. His most popular stories were Lost Sur Massingberd and Married Beneath Mim.

Peabody, George (1795-1869), an American mer chant who lived for the greater part of his life in London, and, acquiring a large fortune, bequeathed

immense sums for philanthropic purposes in England and the United States. His gifts to London alone amounted to half a million sterling, and were the means of establishing important colonies of improved dwellings for the working classes.

Pearson, Cyr.I Arthur (h. 1856), managing director of C. Arthur Pearson, Ltd., and Pearson's Weekly, Pearson's Magasine, and other well-known

papers and publications.

Pearson, John (1613-1686), was a Royalist divine of note in the early days of the Civil War, but hved in obscurity during the Commonwealth. At the Restoration he came into favour again, and was appointed Chaplain to the King. Later he was made Bishop of Chester. He was the author of numerous

Bisnop of Choster. He was the author of numerous works, meluding An Exposition of the Creek.

Pearson, John Loughborough (d. '297), an able architect, pupil of Sir Gilbert Scott, and his successor in the surveyorship of Westminster Althey, where both are luried. Pearson's most conspicuous work was Truro Cathedral.

Pearson, Sir Weetman D. (See Cowdray, Lordd.)

Lord.)

Lord.)

Peary, Rear-Admiral Robert Edward (b. 1854). An American Arctic explorer who went to Greenland in 1287, and in 1891-1892 conclucted a sledging expedition towards the Pole. In 1893, 1895, and 1898 Peary was again in the Arctic regions; and in 1900-1900, in the course of a further protricted attempt, he reached the highest latitude thereto attained on the Western Heinisphere. Again, in 1905, he left New York on board the specially equipped expedition ship Roservell, and the following surpress surpressed in touching 87 dees, 6 min. equipped expedition ship Roosevolt, and the following string succeeled in touching 89 degs. 6 min. N. latitude. On April 6th, 1959, however, he succeeded in actually reaching the Pole, and visited England in May, 1910. His book describing his later experiences in the Arctic regions is the most interesting of all the books hitherto written on the subject, and is valuable for its splendid series of illustrations from photographs of the actual scenes described. It may be added that the claim of Dr. Cook to have precoded Commander Pears in the discovery of the Fule has been abandoned, although at first so boldly asserted and maintained. at first so holdly asserted and maintained.

at first of boldly asserted and mantained.

Peel, Sir Robert (1988-1890), a prominent British statesman who entered Parlament at twenty-one years of age, and immediately exhibited great capacity, being appointed Under-Secretary for the Colonies in the following year. From 1812 to 1818 he was Secretary for Ireland; and in 1822 he became Home Secretary, introducing, whilst fulfilling that office, the new police service associated with his name. In 1834 Peel was for four months Prime Minister, and in 1843 again occupied the same exalted position. It was then that the Anti-Corn Law aritation became formulable, and Peel aban-Law agitation became formidable, and Peel aban-doned his former Protectionist attitude, and carried

doned his former Protectionust attitude, and carried his Repeal measure eventually in 1846. He was thrown from his horse in Hyde Park on June 25th, 1850, and succumbed to his injuries three days leter.

Poel, Arthur Wellesley, 185 Yisoount (1829-1921), the youngest son of Sir Robert Peel, the famous Prime Minister just mentioned. Sat in Parliament for Warwick from 1855 and held various minor Government offices mitil 1884, when he was elected Speaker of the House of Commons, a position which he occuried with dispits and distinction until 1864.

he occupied with dignity and distinction until 1895.

Peale, George (1523-1536), was one of the distinguished company of Filizabethan draunatists, and is best remembered by the "Old Wives" Tale, "" Edward I.," and "David and Bethsabe."

Palagius, a monk of the 5th century, belined to be a native of Britain, who introduced a doctrine that the human will could turn to God without being impelled by Divine Grace, which came to be known as Pelaginism, and was denounced by St. Augustine Manufact Juna-1964, was an able and

as relagmism, and was denounced by St. Augustine, Palisater, Marahal (1794-1864), was an able and caergetic French general, who commanded the First Corps of the French Army in the Crimean War, and after the close of the campaign was created Duc Malakloff. He was Governor of Algeria at the time

Pellico, Silvio (1788-1854), an Italian poet and

revolutionist who was imprisioned by the Austrian Government for conspiracy from 1820 to 1830. The story of his prison life, which he afterwards wrute, became a very popular book.

Pemberton, Max (b. 1833), a clever novelist of Birmingham birth, who, after concluding his educa-

tion at Cambridge entered journalism, and wrote for the magazines. Was made editor of Chums in 1892, and of Carsell's Magazine in 1896. He has written tion at Chimonage and the magazines. Was made editor of Chums in 1892, and of Carsell's Magazine in 1896. He has written many capital stories, including The Iron Firste, The Gold Wolf, and Beatrice of Venics; and has wan success as writer of revues for the music-lalls. Penda, pagan King of Mercia (A.D. 630-685), a fierce, warlike ruler, who gave battle to the Christian forces of Northumbra and East Anglia, defeating and slaying Edwin and Oswald of Northumbria, and Anna of East Anglia. Oswl of Northumbria overcame and killed him in 552.

Pann. William (1644-718), was born in London Pann. William (1644-718), was born in London Pann.

Penn, William (1644-7718), was born in London and was the son of a British Adnural. After finishing his education at Oxford he became a Quaker, and wrote some powerful pamphlets supporting his new fath, suffering imprisonment twice because of his consistent. Underting a considerable estate from his fath, suffering imprisonment twice because of his father, he devoted himself more keenly than ever to good works, and in 1082, having obtained a special grant from King Charles II., went to America, and founded Pennsylvania, which under his enlightened rule became a prosperous colony. He returned to England two years later, and had difficulties with the Government, but ultimately settled them and spent the last six years of his life, prostrated by paralysis, at his country seat in Berkshire. He is buried in the Friends' burial ground near Beaconsfield, Bucks. field, Bucks.

Pepin (7x4-768), surnamed "le Bref," i.e., "the Short," was the first Carlovingian king of France,

and father of Charlemagne.

Pepys, Samuel (1632-1703) was Secretary to the Admiralty during the reigns of Charles II, and James II, but his chief claim to remembrance is his

Admiratly during the reigns of Charles II, and James II, but his chief claim to temembrance is his famous Drary, which affords a series of interesting prictures of the life of his period.

Perceval, Spencer (1762-1812), was Prime Minister from 1809 to 1812 after having filled other prominent posts in previous Tory Ministries. He was 285385in attel in the Lobby of the House of Commons by a man named Bellingham. Perceval was an opposer of Catholic Emancipation; his monument in Westminister Abbey is sculptured with a malietic varies, entation by Westmacott of his murder.

Percival, John, D. D., Bishop of Hereford since 1805, b. 1834, educated at Oxford, ordaned 1866, Head Master of Cinton College from 1862-1898, Camon of Bristol 1882-1898, Head Master of Rugby 1887-1895, Percy, Blahop Thomas (1720-1811) was an Engish divine and antiquary, who enriched our hierature by an accidental discovery of a large folio of MS. of ballads, which, with considerable additions, were afterwards published as "Reliques of Ancient Engish Peetry." He was himself the author of several ballads which became popular, including "The Hermit of Warkworth."

Perdicons was one of Alexander the Great's ablest segments. He attained great distinction under that

Perdicons was one of Alexander the Great's ablest generals. He attained great distinction under that generals. He attained great distinction units monarch, but after Alexander's death he began to scheme against the new king, Arrhidæus, and, being sent to Egypt against Ptoleny, was defeated and put to death by his own soldiers, B.C. 321.

put to death by his own soldiers, B.C. 327.

Pariander was Tyrant of Corntin from 625-585 B.C.,
and one of the Seven Sages of Greece.

Pariales (495-429 B.C.), the distinguished Athenian
statesman, general, and orator, who raised Athens
to the point of its fullest prosperity, not only doing
much to beautify the city but making it the centre of
civilisation. He foll a victim to the plague.

Parkin, Sir W. H. (1837-1907), discoverer of the
mauve dye-stuff, and founder of the industry in coaltar colours, the jublice of which was celebrated in
1906, when it was demonstrated that there are now
some roc separate colouring matters obtained from some 700 separate colouring matters obtained from

tar products.

Perks. Sir Robert William (b. 1849), represented the Louth Division 1892-1910. Is one of the

most prominent Wesleyan laymen of the time, and a leading promoter of recent Methodist movements, such as the Methodist Twentieth Century Million Fund, and the acquisition of the Westminster Aquarium site for a large central Methodist building. A great contractor, connected with many large under-taking, yet withal an active politician.

Parpetus, St., an African Christian martyr who suffered death at Carthage, refusing to renounce her faith although entieated to do so by her father, who appealed to her at her Irial holding in his arms

her own child.

Persigny, Duc de (1808-1872), was one of Napoleon the Third's most trusted Ministers, and was largely responsible for the coup detail of 1851. He was for some years French Ambaysador in England, and it

was in England that he took refuge after Sedan.

Persius Flacous (AD 34-62), a famous Stoic philosopher, whose six satires are among the most treasured products of Roman literature.

treasured products of Roman literature.

Pertinag, Helylus (A D. 136-193), was Roman Consul in A D. 179, and later commanded the Roman legions in Britiun. On the death of Comnodus he was induced to accept the purple, but was only Emperor for about three months, the Practorian guards attacking and killing him.

guards attacking and kiling him.

Perugino, Pletro (146-1521), a great Italian artist, exceling in religious subjects, and the painter of numerous fine freezoes, including some in the Sistine Chapel at Rome. Raphael was his pupil.

Pestalozzi, Johann H. (1746-127), was a rich all writer, who devoted his fortune in the language of the same all with the properties with

to benevolent works, especially in connection with the education of poor children.

the clustion of poor children.

Peter the Great (1972 1725), became sole Czar of Russia in 1696, and showed great ability and energy of character, devoing himself largely to the reorganisation of his army and navy. He spent some months at Deptford studying shipbuilding. He founded St. Petersburg in 1703, and conquered Livonia, Finland, Pomerania, etc. Among the prisoners taken by him at the Battle of Puttowa was Catherine, the wife of a Swedish soldier who had brishners taken by his at the batter of rulew was Catherine, the wife of a Swedish soldier who had been killed. Peter took her to 5t Petersburg, and ultimately made her bis wife, and by her cleverness she did much to strengthen his power.

she and much to strengthen his power.

Peter, the Hermit (error 1950-1115), was the main instrument of the agitation which brought about the first Crisade. He was a French mone, of great elequence and earnests is, and lived to see Jerus-dem in the hands of the Christians. He died at the Monastery of Huy, in Belgium.

Petrarch. Francesco (1304-1374), the famous Italian poet, whose odes and souncts." To Laura."

are of marvellous beauty and fervour, and have been translated into all languages. He filled several important positions in the Church.

mportant positions in the Charten,

Phalaris was monarch of Agrigentum in Sicily, in
the 6th century B.C., and after a cruel reign of
sixteen years, the nobles rose against him and he and
his mother were himsed in the famous brazen bull in which he had made many human sacrifices

Phelps, Bamuel (1864-1878), a Slakespearcan actor and manager of celebrity, who from 1844 to revived most of the poet's tragedies, plays and concides, securing both competent acting and effective picturial setting.

Phidian, the famous Greek sculptor, flourished from about 490 to 432 B.C. The productions of his chisel were pronounced to be the finest ever achieved, but

nothing now remains to attest his genius except the sculptures in the British Museum that were obtained

sculptures in the British Museum that were obtained from the ruins of the Parthenon, widely known as the "Elgin Marbles." Parthenon, widely known as the "Elgin Marbles." Parthenon which, for a time, he associated himself with our Rghard I. Later he returned and intrigued with John against Ruchard, and after John succeeded to the English throne, Philip made war galant England and wrested from her nearly all her Freuch possessions, the Channel Islands and Guienne alone being saved.

Philip II. of Macedonia, trained in military arts

in Greece, when he came to the throne instilled martial ideas into his subjects, and entered upon a career of conquest that did not end until he had become master of Greece. It was against his designs that Desmosthenes directed his celebrated, "Philippics." He was assassinated when about to set out upon a Persian campaign, which was afterwards so tictoriously carried out by his son and successor, Alexander (g.v.).
Philip II. of Bpain (1527-1598), succeeded his father the Emperor Charles V., and was engaged in numerous wars, including his fannous attempt to invade England with the Spanish Armada, He was four times, married, his second wife being Queen Mary of England. After her death, he was the consistent enemy of this country.

Philip W. of Spain (1683-1746), founded the Dourbon dynasty in Suam, and was the son of the Dourbon dynasty in Suam, and was the son of the Dauphin of Louis XIV, and Mara Theresa of Spain His unche, Charles II. of Spain bequeathed the kingdom to Fun, and this led to the war of the Spanish Succession, which ultimately confirmed him in the kingship.

Spansan Succession, "In his kingship.

Philips, Ambrose (1675-1740), was accounted a considerable poet in his day, and was the friend of Steele and Addison. Best known by his "Pastorals"

Philips, John (1676-1788), was Archie toon of Salop, and made a literary reputation by "The Splendid Shilling," which The Taller declared to be with best burdescue poem in the British language."

Phillips, Stephen, dramatist and port of power and distinction. His "Paolo and France" "Herod" and "Ulysses," all were welcomed as containing work of a high order, and his "Nero" confirmed the verdet.

Philo Judmus, a Hellenistic Hebrew philosopher who attracted much note by his teaching, and his who attracted much note by his teachings and list intercesson for the Jews before the Emperor Cabgula at Rome in A.D. 40. He was a native of Alexandria, and by his writings sought to make the philosophy of Plato harmonise with the Bible Philostratus, Flavius, the Greek rhetoriclan spent the greater part of his life in Rome, and wrote numerous hographical and lustorical works of nuch value. He flourished in the first part of the 3rd century of the Christian era.

Piazzi, Giuseppe (1746-1826), an Italian astronomer, who in 1789 established an observatory at Palerino, and employed himself in making a list of the stars. He was the discoverer of the planet Ceres, the first known of the asteroids

Piccolomini, Ottavio (1599-1666), was of Italian birth, and entered the service of Ferdinand II, of Austria, attaning high command under Wallenstein, at whose death Precolomani was awarded a great portion of the dead general's estates. He afterwards highly distinguished himself in several campaigns

highly distinguished hunself in several campaigns. Picton, Sir Thomas (1756-1875), one of the ablest generals of his day, was a native of Fembrokeshire, and greatly distinguished himself in the Peninsular War under Wellington, and was killed while resting a desperate charge of French cavitry. Pinchbook, Christopher (1670-1732), a London watchmaker who, by inventing an allow of copper and zinc, produced a cheap metallic substance which has something of the americance of gold, and is

has something of the appearance of gold, and is much used in the manufacture of cheap lewellery. Hence the term "pinchbeck" as a sign of imitation or interiority.

Pindar (522-442 B.C.), the eminent lyric peet of ancient Greece, most of whose famous odes were written to celebrate the personages and events of

Pinero, Sir Arthur Wing (b 1855), an able English dramatist and former actor, of Portuguese descent dramatist and former actor, of Portuguese descent After some years of experience as an actor he took to play writing. "The Squire" produced was his first real success. This was followed by "The Schoolinistress," "Dandy Dick," "Sweet Lavendok," and others, which achieved remarkable popularity. Then Mr. Pinero came under the influence of Ibsen, and wrote "The Second Mrs. Tanqueray." Among his later plays may be mentioned "Iris," and "His House in Order." Pitman, Sir Isaac (1813-1897), founded the Pitman system of phonographic shorthand, which became widely adopted, and has practically superseded other systems in commercial and general use. He was

knighted in 1804.

Pitt, William (1759-1806), was the second son of the Earl of Chatham. Entered Purhament at twentyone, and by his brilliant oratory captivated the House of Commons. In 1782, when only twenty-three, he became Chancellor of the Exchequer, and tirree, he became Chancellor of the Exchequer, and in the following year was made Premier, and held that office for seventeen years, through the trying period of the French Revolution, when war with France was almost continuous. He was undoubtedly one of the most brilliant statesmen that England has produced, and his death at the early age of forty-ix was a great loss to the country. He was brined in Westminster Abbey. (See also Chatham.)

Plus IX. (1792-1893) held his holy office during the troubled period of Italian Revolution and the War for Independence, when he had to contend acanst

troupied period of Italian Kevolution and the War for Independence, when he had to contend against Austria, France, and Sardinia. After failing to bring about the Papal supremacy of the Italian States he was deprived of his temporal power in 1870, and saw Victor Finnianucel crowned King of Italy. In the ame year the Valucan Council pronounced for Papal Intalliability.

Intallibility.

Intallibility.

List X., Giuseppe Sarto, Pope (b. 1835) was a poor Italian priest intil about forty years of age. Afterwards became known as an eloquent practicular and was made Vicar-Ceneral of Treviso College. Later was made bishop of Mantius, created Cardinal in 1893, and elected Pope in 1973.

Pizarro, Francisco (1477-1541), was an adventurous Spanard who, after Columbia's discoverus in the New World, equipped an expedition and set out for South America, conquering Peru for the Emperor Charles V. Pizaro's circur in Peru was characterised by excessive cruelty, and in the end he was killed by his own solders.

Planudes Haximus livel in the 14th century, and was a Greek monk of Constantinople. He was a sonewhat voluminous writer, but his fame rests

a somewhat voluminous writer, but his fame rests chiefly on the Green Intuology which he coincided.

Plate (489-347 B.C.), the renowned Greek philosopher who laught at Athens, and greatly distinguished linuself by his lectures and writing. His Dialogues and his Kepiblic are among the greatest works of the ancients and embody a philosophical system. which has served for admiration and discussion in all ame was Austocles.

He was Socrates's disciple and Aristotle's teacher. Plautus, Titus M. (254 184 B.C.), the Roman comic poet and comedy-writer. Was a proble author, and such portions of his work as survive are

of considerable interest.

of consideralli, interest.

Playfair, John (1784 1819), was a native of Forfarshire, and entered the ininistry, but it was as a mathematician and geologist that he attained distinction, his book on the Huttonian theory of the earth, his Elements of Grometry and Cultimes of Natural Philosophy being important contributions to the sciences of which they treat. His brother, William Playfair (1795-1824), was an ingenious draughtsman and inventor, employed by Boulton and Watt at Birmingham, and a fertile writer on political and historical subjects, and the projector of a clever commercial datas.

pointeal and nistorical subjects, and the projector of a clever commercial atlas.

Playfair, Lyon, 1st Lord (1810-1898), a distinguished chemist and Liberal politician, who was professor at Edinburgh University in 1893 and entered Parlament in 1868. He was appointed Postmaster-General in 1874, and for some time served as Deputy Speaker of the House of Commons, being raised to the pecrage in 1892.

Played Librar (1927-1891), was an Austrian who

Playel, Ignaz (1757-1831), was an Austrian who became eniment as a composer and spent the last years of his hie in Paris, where he established a panoforte manufactory, which became highly successful.

SUCCESSION.

Plimsoll, Samuel (1824-1898), was a native of Bristol, and while M.P. for Derby got up an agitation on behalf of merchant saliors, procuring the passing of the Merchant Shipping Act of 1876,

which by defining a line above which no ship must suik in the water when loadled has ever since made the overloading of ships illegal. The line is known as the Plimsoll Mark.

as the rinnob mark.

Pliny was the name of two Romans of distinction, known as Pliny the elder, and Pliny the younger. The first was a naturalist of high reputation who perished in the eruption of Vesuvius, A.D. 79, when Poinpeii was burned; the second, his nephew, achieved renown by a series of historical Letters, and deat A.D. 2000.

achieved renown by a series of matorica. Leuers, sand died A.D. 173.

Plunket, Baron (1764-1854), was a distinguished Iribi lawyer and Member of Parliament who was Lord Chaucellor of Ireland from 1830 to 1841. He was, whilst at the Rar, one of Emmet's proceedors, and opposed Pit's scheme for the Union, but his work in the cause of Catholic Emmeripation was both splendid and successful-

Plunkett, Rt. Hon. Bir Horace (b. 1854), ex-Vice-President of the Department of Agriculture and Technical Instruction for Ireland. Has done good work for the reform of farming conditions in Ireland. He is the youngest son of Baron Dunsany and was in

Parliament from 1892 to 1900.

Plutarch (circa 50-120) was the famous writer of biography who lived for a great portion of his life in Rome, though born in Greece. His Lives form one of the world's most famous literary productions, and

Rome, though born in Greece. His Lives form one of the world's most famous htcrary productions, and have provided naterial for hundreds of plays and dramas, including some of the best of Shakespeare's.

Pobledonostzeff. Constantine (b. 1827), Procurator of the Holy Synod in Russia, and a statesman whose sticinious efforts to strengthen autocracy made him one of the most rotable personages for many years in the Czar's domrin.

Pocahontas, the daughter of an Indian Chief. When Captain John Smith and his party landed in Virginia in 1605, they would have been murdered but for the intercession of Piccahontas, who subsequently married one of the stitlers, and accompined him to England, where she died in 1617.

Poe. Edgar Allan (1809-1826), was an American poor of unione genius, anthor of "The Raven," "The Bels," and other poems of haunting melody and dainty fancy. He fort his parents when very young, was adopted by a Richmond merchant named John Alina, who had him educated, but with whom he afterwards quarrilled when he devoted himself to journalism and authorship. Poe's "Tales of Mystery" are thriling examples of a kind of hterature which has been much indulged in in later times, but schlous with equal success. The Poe centenary celebration of 1869 extended to many lands. times, but soldon with equal success. The Poe centenary colobration of 1909 extended to many lands.

lands.

Reginald (1500-1558), was Cardinal Archbishop of Canterbury under Queen Mary, having succeeded Cranner, and was the Queen's most trusted adviser. He was a legate-proadent of the Council of Trent, and was accounted largely responsible for the Protestant persecutions in the

responsible for the Protestant persecutions in the rein of Queen Mary.

Pollio, Calus Asinus (26 B.C.-A.D. 6), gained fame as one of Ca.-air's generals, and after Casar's deth was made theorement of Transpadene Gaul. Afterwards he served as Consul. He was the patron and protector of Virgil and Horace.

Pollook, Rt. Hon. Bir Fpederfick, P.C. (b. 1848). Educated at Cambridge, and called to Bar 1871. In 1820. 1830. was Professor of Iurosurdence at University.

1822-1883 was Professor of Jurisprudence at Univer-sity College, London, and from 1884 to 1890 Professor sity Collège, Loudon, and from 1881 to 1800 Professor of Common Law in the Inis of Court. Has written largely on legal subjects, some of his books being accepted text-books on their respective subjects. He has also written A Lye of Spineza, an Introduction to the History of the Science of Politics, and some interesting books on mountaineering.

Pollok, Robert (1908-1807) was a native of Reinfrewshire, and in 1877, when he was dying of consumption, he published the long blank verse poem, "The Course of Time," which, though not poetry of the flighest order, contains many beautiful passages, and attained great popularity.

attained great popularity.

Polo, Marco. (See Marco Polo.)

Polybius (204-122 B.C.), the Greek historian, wha

wrote a history in over forty books; but only the first five and certain fragments of the rest have come

Polycarp (circa 69-155) was Bishop of Smyrna, and said to have been the friend and disciple of the Apostle John. On a visit to Rome he was seized by the Proconsul and put to death in the amphitheatre. Polycletus (452-418 B.C.) was a Greek architect and sculptor and the friend and fellow-pupil of Phidias, whom he almost equalled in skill. He was a citizen whom he amost equaneum skin. He was a character of Argos. His statue of Doryphorus became known in the world of art as the "Canon of Polycletus," as the perfect athletic type of the human figure.

the perfect athletic type of the human figure.

Pompadour, Madame Jeanne (1721-1764) was for a long time the favourite of Louis XV, of France, over whom she exercised great influence.

Pompey the Great (100-48 B.C.), distinguished himself as a general while young, and ultimately became, with Cersar and Crassus, trinium. Was afterwards thrown into the struggle with Cersar, which only ended with the latter's death. Pompey was assassmated after the Battle of Pharsalia.

Pone. Alexander (1988 1744), the celebrated 18th

Pope, Alexander (1688 1744), the celebrated 18th century poet and translator of "Homer." Was the son of a London draper, and while but a boy showed great poetic fifts. In 1711 he published his famous "Essay on Citidism"; in 1712 "The Rape of the Lock"; and in 1713 "Windsor Forest and other Poems." His finest work was his "Essay on Man," and his most sensational his "Dunciad," a literary

satire upon the smaller interary men of his true.

Porson, Richard (1755-1868), the famous scholar with became Regms Professor of Greek at the University of Cambridge, and two years before his death was nade Libraran to the London

Porter, Jane (1776-1850), an Fnglish novelist whose Thaddens of Warsaw and The Scottish Chiefs were powerful romances, and were deservedly popular. St. Walter Scott was an especial admirer of them

So watter score was an especial addition of the Borteus. Captain John, wis commander of the Edinburgh guard in 1936, when a not took place caused by the public synnathy with certain smigglers who were supposed to have been hardly dealt with A the execution of one of the sningglers, and the supposed to have been hardly dealt with A the execution of one of the sningglers, and the supposed to have been the first stories when death with a first between other one samplers, when Porteus ordered his soldiers to fire, and they killed soveral persons and wounded a large number Poteus was tried and condemned to dual for this act, but reprieved. This so energed the populace that they dragged him out of prison and hanged him on a dyer's signpost in the Grassmarket, none of the

but diversing the property of the property of

now in the unseum at The Hague.

Pounds, John 11795-1830, a shoemaker of Portsmouth, who, witnessing the deplorable condition of so many of the poorest class of children, started a school in his own neighbourmond where such children were taught, fed, and cluthed. From this effort sprang the Ragged School Union, which wrought great good in London and other large cities, and was liberally supported by Lord Shafteshury and other philainthropists.

Poussin, Gaspage (1673-1675), a French artist, originally called Dughet, who was the brother-in law of Nicolas Poussin, and achieved great enumence as a landscape painter. He long lived in Rome, and the Campagna found in him a fauthful depictor.

a bankscape paunter. He long lived in Rome, and the Campagna found in him a fauthful depictor.

Poussin, Nicolas (1504-1003), an emittent French painter who was patronised by Louis XIII., and produced many notable works, some of which are in our National Gallery. Gaspar Dughet (Poussin) studied under Nicolas, and married his sister.

Powers, Hiram (1805-1873), was an American sculptor of high reput tion, whose "Greek Slave" was one of the conspicuous art works of the 1885 Exhibition. He died in Florence.

Poynter, Sir E. J. (b. 1836 in Paris), President of the Royal Academy since 1896. Has had a highly successful career as a painter. A first his work was mainly of a decorative character, but gradually he

developed exceptional talent as a painter of classical subjects. Ris "Perseus and Andromeda," "Atalanta's Race," "Nausscaa and Her Maidens," are all great pictures. Made A.R.A. in 1869, and K.A. in 1876, Was Director of the National Gallery

from 189 to 1905.

Praced, W. M. (1802-1839), was born in London, educated at Cambridge, and made a brilliant reputation as a writer of Society verso in which he has never been excelled.

Praxitales, a great Greek sculptor who lived in the 4th century B.C. His statues—especially his Aphrodite at Cindus—were in some respects finied beyond

all others, but few remain to testify to his genius.

Precoe, Sir William Henry (1834-1913), was connected with the Electric Telegraph Service from connected with the Electric Telegraph Service from 1853, and conspicuously engaged in connection with all the developments in telegraphy which have since taken place. He was associated with Marconi in his wirelessa-"legraphic schemes and introduced the block system into Eincland.

Prescott, William Hickling (1796-1859), one of the best known of American Instorans, whose History of Ferdinard and Instella, (onquest of Mesico, Conquest of Peru, and History of Philip II., are among the most pic-urosquely written and reliable of modern historical works.

Presstwing the Mile Joseph (1812-1869), made a high

Prestwich, Sir Joseph (1812-1896), made a high reputation as a geologist, and from 1874 to 1888 was Protestor of Geology at Oxford. His work on the Antiquity of Man is a very important contribution to science.

To science.

To science.

Joseph (1723-1804), was born at Leeds, and studied for the Nonconformat ministry, becoming a Unitarian pastor in Binningham in 1700 Here he began those scientific studies which proved to be of such signal importance. He was the discoverer of oxygen and other gases, and worde A History of Hierotrania. He was also a great advocate of freedom and progress, and having expressed approval of the French Revolution, a Birmingham mob set firm to his house, destroying his valuable library and scientific apparatus, Some time afterwards he removed to America, where he died.

Prim, Marshal Juan, Count de Rens (284-279), a Spanish statesman and gene it, was present through a time of turbulence and excite ent in his attempt to maintain 1-shells on the throne of Spanish.

attempt to maintain Isabella on the throne of Spain. He was able and fearless in the held, and brought the same characteristics to bear on his state manulage the same maracteristics to bear on useful consistent and definition of the control of the control of the control of the deposition of the function of the them buke of Aosta as King of Spain Before the new king arrived, nowever, I'am was assussinated.

Princep, Valentine C. (1838-1904), an able artist, Royt Academicsin, and Professor of Panting, Mado KA in 1894, and exhibited many fine netures; use also the author of noweb and a notable outcures; use also the author of noweb and a notable

pictures; was also the author of novels and a notable book of Indian impressions

Prior, Matthew (1664-1721), a well known poet and wit who acquired cel-brity by writing "The City Mouse and Country Mouse," and a number of other Mouse and Country Mouse," and a number of other poems appropriate to the humour of the time. He rose to great favour, heng some years in Parliament, and also representing the English, Government as Ambassador at The Hagne and elsewhere. He was builted in Westmister Abbey.

Probus, Marcus Aurelius, became Roman Imperor in 276, after a successful career in the army. His despote rule brought him into disfavour, and in 26x a revolt occurred in the army. All the was

and in 282 a revolt occurred in the army, and he was

slain by his own soldiers

Procter, Bryan Waller (1787-1874), made a con-Substable name as a poet between Eig and his death, his verses being mostly of a patients: distanctive the was a Commissioner of Lunacy for thirty years. He wrote under the name of "Barry Comwall." His daughter, Adelaide Aune Procter (1895-1864), producing the productive of the pro

duced soma pretty verse, including a popular volume entitled Legends and Lyrus, published in 1958.

Prootor, Richard Anthony (1837-1888), an assidnous astronomer, and voluminous writer and popular lecturer on the subject. His practical work

in measuring the rotation of Mars and charting the

stars of Argelander's catalogue was notable.

Propertius, Sextus, the Roman elegiac poet.

Was a native of Umbria, and flourished in the 1st century B C.

century B.C., century B.C. at the beginning of the 4th century B.C. He incurred much emitty by his refusal to accept the story of the "Gods," and he was drowned while attempting to escape from his persecutors.

Proudhon, Plerre Joseph (1809-1805), was a French political economist of extreme views, whose What is Properly I Confessions of a Revolutionist, and other works were much read in his day.

and other works were much read in his day.

Prudentius, Aurelius Clemens (348-410), a

Spaniard who wrote a considerable number of Latin

Sprinard who wrote a considerable number of Latin puents breathing the Christian spirit.

Prudnon, Plerre Paul (1758-1824), a French historical and potrrait painter of considerable celebrity, whose picture "Divine Justice and Vengeance pursuing Crime," at the Louvre, is a notable work.

Prynne, William (1600-1606), was a violent pamphleter of the days of Charles I. and Cronwell, and for his plain speaking several times found hunself in nrison or outdomed to the pullow.

prison or condemned to the pillory. At the Restoration he was made Keeper of the Records at the Tower.

Ptolemy, Claudius Ptolemaus, a tamous astronomer of Alexandria, who flourished between 130 and 161. He founded the Ptolemaic system, which taught that the earth was stationary and the heavenly bodies revolved around it.

Pusaini, Giacomo (b. 1858), a composer of light opera-, some of which have achieved great success, notably La Bohéme, Madame Butterfly, and Manon

notably La Boheme, Madame Butterff, and Manon Lessant. Is a native of Milan. It came to London in 1911 to superintend the production of his La Faucutila del Il'est (The Girl of the Golden West). Pugin, Augustus (1769-1826), a French architect who settled in London and wrote several able text-books on architecture. Was succeeded by his son, Augustus W. Pugin (1871-1824), who designed a number of fine Gotine edifices in various parts of the country, and wrote several books on architectural subjects. Edward Welby Pugin, son of the latter (b. 1831), also at timed architectural celebrity in England and on the Continent alike.

Parcell. Henry (1628-1604), was a celebrated

Parcell, Henry (1628-1695), was a celebrated organist and composer, who did much to improve the musical service of the Church. Was organist of Westminster Abbey, and the most famous member

of a family of notable musicians

Puscy. Edward Bouverie (1800-182), a famous Anglean tlerac, who was Regus Processor of Hebrew and Caion of Chist Church, Oxford, from 1828 to his death. From 13,3-1840 he published Tracts for the Times, which manginated the Tractanian movement that developed into what became known as Puseyism At the most active point of his career, Dr. Puscy was associated with John Keble, John Henry Newman, and other deep theological thinkers.

Newman, and other deep theological thinkers. Pym, John 1684-1633), a pronument statesman in the reign of Charles I. He was one of the five members whom Charles attempted to seize before the outbreak of the Civil War, and would doubtless have been a great figure in that conflict had he not died suddenly before the strife was fully developed He was one of the managers of Buckingham's im-peachment, advocated the Petition of Right, and in the Long Parliament was a vigorous assailant of Strafford and I and Strafford and Laud,

Pythagoras (crea 582-500 BC), a great Greek philosopher, who taught the doctrine of the transmigration of souls, and also a system of astronomy similar to that of Copernicus.

Quain, Sir Richard (1816-1898), a native of Mallow, a physician of great eminence, and one of the ablest of modern writers on pathological subjects, contributing largely to the British Pharmacopaia, and editing the Dictionary of Medicine.

Quarison, Bernard (1819-1899), a famous dealer in

rare books, who was a native of Germany but settled in London, and became naturalised in 1847. His knowledge of scarce and valuable books was unique. His shop in Piccadilly was a storehouse of literary treasures

Quarles, Francis (1592-1644), author of the cele-brated Divine Emblems, a book of religious poetry

Brates Divine **motems*, a book of reigrous poetry that is an English classic.

Quiller-Couch, Sir A. T. (b. 1863), a well-known novelst and essaysist, who as "Q" has published many delightful stories, including "Dead Man's Rock," "I rey Town," and "The Splendid Spur." Appointed Professor of Poetry at Oxford in 1912.

Quin James (1663-1766), the immediate predecessor of Garnck as the leading English actor. For over twenty very he was sufficient in a but after Garrick

twenty years he was without rival, but after Garrick made his appearance in 1741 the popularity of the older actor waned, and he retired in 1751.

Rabelais, Francois (1483 1553), the great French sattrist, first adopted the career of a monk, then studied medicine, and settled at Lyons as a doctor, and it was there that he published his Garyantza and Pantagruel, one of the wittiest and withal the coarsest books in any language.

coarsest pooks in any language.

Rachel, Madame (1821-1858), the most famous French autress of her time, Was born of poor parents of Jewish race, and sang in the streets of Lyons and Paris before her genus was discovered, and she was able to adopt the stage as a profession. In tragedy—and particularly in the part of Adrenne Lecourcur—she was probably un surpassed She died of consumption, and left behind her a brage fortune. behind her a large fortune

behind her a large fortune Racine, Jean (1879, 1991), a distinguished French tragic dramatist, best known by his "Andromaque," "Phider," and "Athalie" Raccliffe, Mrs. Ann (1764-1833), way a celebrated author in her day, and wrote some highly sensational novels in which the mysterious and supernatural were leading elements. Her best-known work is The Rysteries of Unio Phin.

Radcliffe, John (1650 1714), a famous physician who attended three English monarchs—William III. who attended three English monarchs—Wilham III, Queen Mary, and Queen Anne—and was lughly esteemed in his profession. He amassed a consucrable fortune, £4,0,000 of which he devoted to the founding of the Radichite Library in Oxford.

Radetzky, Count (1766-1884), a famous Austrian Field-Marshal, who fought in most of the campaigns

Field-Marshal, who fought in most of the campaigns of his country and period against the Turks and the French, and in 1848, when eighty-two, led the Austran-troops to a series of vintories in Italy.

Rachurn, Sir Henry (1750-1823), was a famous Scotlish portrait pountre, and friend and pupil of Sir Joshua Reynolds. Was made R.A. in 1815 and

kuighted in 1822.

Ringified in 1822.

Rae, John (1813-1803), an arctic explorer, who was a member of the Franklin Search Expedition of 1848, and in 1854 made the discovery that King Wilham's Land was an island. In later years he directed an expedition for surveying proposed submarine telegraph lines between England and America by way of Iceland and Greenland.

Raffles, Sir Thomas Stamford (1781-1824), an enument antirable, who walks fillum Government.

eniment naturalist, who, while filling Government appointments at Java and Sumatra, between 1805 and

appointments at Java and Sumatra, between 1805 and 1824, Penned many valuable papers on botanical and zoological subjects as the result of his observations. He was the founder and first President of the Zoological Society of London Knighted in 1818. Raglan, Field-Marshal Lord (1783-1852), was a groat soldier and the son of the 5th Duke of Beaufort, and served in the Peninsular War, losing his right arm at Waterlog Made a preer in 1822, and in 1834 was Commander-in-Cheef or the British forces in the Crimea. He died before Schastopol.

Ralkes, Robert (1733-1811), was a Gloucester printer and new-paper proprietor, of high moral qualities, whose name is mainly remembered as a practical propounder of the Sunday School system.

Raimondi, Mare Antonio (circa 1488-1539), was a renowned engraver, who engraved many of Raphael's works. He was a native of Bologna and resided there for the greater part of his life.

Rainy, Rev. Dr. Robert (1826-1906), Frincipal of New College, Edinburgh: was long the leading ecclesiastical personality of Scotland, and was the author of numerous theological works, including The Bible and Criticism and a history of The Ancient Catholic Chierch.

Raisuli, a notable Moorish brigand, who exercises great power over the people, and in their behalf sometimes exacts concessions from the Sultan. In row he captured Kaid Maclean, and held him to

1907 he captured Kaid Maclean, and held him to ransom until Feb., 1908, when a large sum was paid

for his liberation.

Raleigh, Sir Walter (1552-1618), a scholar, courier, soldier, sailor, and statesman, who filled a prominent part in the history of his time. In 1584 Queen Elizabeth granted him a patent for the discovery Elizabeth granted him a patent for the discovery and settlement of unknown countries in the far West. The colonisation of Virginia followed. He is said to have introduced into this country both the potato plant and robacco. At one time he was in great favour at Court, but quarrelled with the Queen, and suffered in fortune in cousequence. When James I. came to the throne, Raleigh was supposed to be implicated in a conspiracy against that monarch, and was sentenced to death. After that he was a prisoner in the Tower of London for twelve years, and there he wrote his History of the World, and other works. In fore James set him at hiserty in order to head an

in the Tower of London for twelve years, and there he wrote his History of the World, and other works. In 1675 James set him at liberty in order to head an expedition to Guidan in the hope of finding gold, but being unsuccessful he was again imprisoned on his return and finally beheaded in Old Palace Yand.

Raleigh, Sir Walter, M.A., Protessor of English Literature at Oxford, and author of many volumes on eminent men of letters, including books on Milton, Wordsworth, and others. His work on Shakespeare, 1077, is his highest achievement.

Ramany, Allian (1686-1758) the Scottish pastoral poet, who write The Gentle Shepherd, which made him famous. For the latter portion of his life he was a bookseller in Edmburgh. He had a son, also called Allan (1713-1741, who was a successful portrait punter, and died at Dover.

Ramany, Prof. Sir William M. (h. 1861), has been engaged for nearly thirty pars, since his boylood in fact, in the study of ancient gengraphy in Asia Minor, and has flooded the theme with new light

Minor, and has flooded the theme with new light

Received the Victorian Research medal in 1906.

Ramsay, Sir William (b. 1852, at Glasgow), Professor of Chemistry at University College, London, 1897-1912. His scientific discoveries have been of the first importance. In conjunction with Lord Rayleigh he has discovered argon, thereto an iniknown con-stituent of the air, and has since detected other new atmospheric gases, which he called neon, krypton, and xenon. Helium, a constituent of certain minerals, was also discovered and explained by him. Sir William is the author of scientific disquisitions. and xenou.

Sir William is the author of scientific disquisitions respecting the and other subjects, and was awarded the Nebel prize in chemistry in 1904. President of the British Association, 1911.

Ramusio, Glovanni B. (148-1357), attained considerable tame in a geographer and editor of Yoyages and Travels. He lived at Venuce for many years and for a time held the position of Secretary to the Council of Ten.

Ranjit Bingh, or Runjeet Bingh (1780-1839), a prominent Sikh clieft who for many years was the dominating power in the Funjab, retaining friendly relations with the British. At his death the Sikhs rushed into conditict with the Finglish, with the result that the Punjab we almosed.

rushed into condict with the English, with the result that the Punjab was ultimately amexed.

Ranjitsinhji, Kumar Shri (b. 1872), Jam of Nawangar, spent muny years in thig country before succeeding to the title, and wasa popular cricketer, associated with English and Sussex county cricket, and at almed exceptional successas a bassman in the 'nineties' Ranke, Leopold won (1795-1886), a renowned German historian whose chief work is A History of the Poper. He also wrote a History of England in the Sixteenth and Seventeenth Centuries.

Raphael, Sanzio (1483-1520), the distinguished Italian painter whose works excel all others in their beauty of expression and inspired treatment. He lived a considerable period in Rome, where he painted his famous frescoes for the Vatican and St. Peter's, and also the celebrated cartoons designed for the tapestries of the Papal chapel, which afterwards were brought to Fingland, and are now at the Victoria and Albert Museum. His last painting was "The Transfiguration." Examples of his work are to be found in most of the great Luropean collections, including our own National Gallery.

Rapin de Thoyras, Paul de (1656-1725), was a French Protestant who took refige in England after the Edict of Nantes in 1685, but subsequently settled in Holland, where he wrote his History of England Mich, on its appearance in 1724, was highly esteemed.

Rask, Rasmus C. (1787 1821), a Danish philologist of distinction who compiled an Angle-Saxon grammar, a Frisan grammar, and other works.

Rauch, Christian Daniel (1777-1857), a noted German sculptor was executed a number of very celebrated statues which adom some of the chief cities of his country. for the tapestries of the Papal chapel, which after-

ceterated states which adorn some of the Che-cities of his country.

Raumer, Friedrich L. G. von (1787-1873), was the author of—amongst other works—a history of Europe from the end of the 15th century, and also of A Handbook to the History of Lutrainer. At one time he filled the pustion of German Ambassador

Rayenscroft, Edward, an English dramatist of

RAYMENGUM: EdWARD, an English dramatist of the 17th century, who wrote many able plays, beginning with "The Careless Lovers" [1673] and ending with "The Italian Husband" [1697].

RAYMENGUM: Thomas [1592-7640], was one of the earliest English composers of isalm tunes, of which he published a collection in 1621. Many o. his beautiful the published a collection in 1621. hynm tunes are still sung in the churches.

Rawlinson, Rev. Canon George (1812-1902), an Anghean clene who wrote numerous learned volumes dealing with the succent history of Egypt

volumes dealing with the ancient history of Egypt and other eastern countries, besides various theological works. He was Camden Professor of Ancient History and Canno of Canterbury.

Rawilinson, Bir Henry (1810-1895), diplomatist, soldier and Orientabist, brother of the last-named. Saw some service in Persia as a representative of the East India Company, and afterwards became political agent at Candahar. He performed a like service in Turkish Arabia later en, and began to take a deep interest in an ient cuneiform inscriptions. For a number of years he superintended successive take a deep interest in an tent cunciform inscriptions. For a number of years he superintended successive explorations in Assyria and Babylon, accumulating a valuable collection of antiquities, which he disposed of to the British Museum. He was a member of the Indian Council in 1868. Sat in Parlament for some years, and published a number of admirable works on early Persian, Babylonian, and Assyrian history. He was created a baronet in 1801.

Rawson, Admiral Sir Harry (1843-1910), entered the Navy 17 1857, and saw a good deal of active service during the next quarter of a century. He was commander of the Channel Squadron from 1808 to 1502, and was appointed Governor of New South Wales in 1502 When in command on the Cape Station in 1805, organised 1 unitive expeditions against Mbaruk, and in 1896 bombarded the palace of the Sul'an of Zanzibar.

Ray, John (1628 1705), an Fuglish naturalist, whose services in collecting specimens and classifying them

was of great assistance to science. His History of Birds and History of Father are of much aline. Rayloigh, Baron (b. 1829), one of the most emuent of British physicists, who succeeded Professor I yndali in the Char of Natural Philosophy at the Royal Institution. Has made important investigations in many branches of science, being the most distinguished authority on sound vibrations, and was the co-discoverer with Sir William Rainsay. of argon. He was made a member of the Order of Merit in 1902, and in 1904 was awarded the Nobel prize for physics. Scientific Adviser to Truity House since 1896.

Reade, Charles (1814-1884), holds high rank

amongst the Victorian novelists. His first story, Peg H offington, was published in 1852. It is Never Too Late to Mend, Graffith Gaunt, and The Cluster and the Hearth, are ins best-known novels. He also wrote a number of plays.

Reading, Lord (Sir Rufus Isaacs), Lord Chief Justice since Oct. 1073 (b. 1856). Was one of the ablest advocates of the day. Made Q.C. in 1868, and was M.P. for Reading from 1904 to his clevation to the Beuch.

the Bench. Solicitor-t-central 1910. Attorney-f-general ryno-1913.

Reaumur, Rene A. F. de (1683-1757), an eminent French chemist, who invented the thermometer which bears his name. It was under his superny-tendence that steel was first manufactured in France-Reny, Baron (b. 1839), is an able and versatile public nam and a clover linguist. He is President of the Itoyal Asialic Society and of University College, the Steel Stee and has filled the positions of Governor of Bombay, Under-Secretary for India, and Chairman of the London School Board. He was made a Privy Councillor in 1906.

Recamier, Madame (1777-1849), was a noted society woman of the days of Napoleon, her salon being the resort of most of the celebrities of the time,

from the Emperor downwards.

from the Emperor downwards.

Recorde, Roberé (tsro-1588), was physician to Edward VI, and Queen Mary, but his chief claim to remembrance hes in his various mathematical works, which were much valued in their day. They dealt with arithmetic, geometry, and algebra.

Redmond, John, M. Y. (b. 1831), has been leader of the Irish Nationalist Party since the retirement of Mr. Justin Mr.Carthy in 1700. It as the speaker, and an out-aud-out Home Ruler. Has been specially prominent during the later phases of the parlamentary fight for Home Rule, showing high qualities of leader-ship combined with a wise restraint.

leadership combined with a wise restraint.

Reed, Sir Edward J. (1837-1905), a naval engineer of emmence in ins time, and a politician who was under Mr. Gladstone in 1886 for a short 12 rd as Lord of the Treasury, but secoled to the Unionist Party later, and then retired from Pahlamentary life. He was Chief Constructor to the Navy from 1863 to 1870; and a writer of some distinction.

Reeves, Siras (1818-1900), was the most celebrated English tenor of his time, and from 1811 to 1801 was more or less before the public. In the linguish balled operas that were in vogue in the early part of his

operas that we ten wogue in the early plant of a career he won enormous success.

Regnault, Henri Victor (1810-1878), a French scientist who made highly successful experiments in regard to the physical properties of bodies and thur relation to heat. He was for a considerable period director of the Imperial Porcelain factory at Sevres. and was the author of A Course of Chemistry, which became a standard text-book His son, Alexandre G. H. Reguault (1847-1871), an artist of high ability, excelling in historical subject pictures. He was killed in the Franco-Gorman War.

killed in the Franco-Gorman War.

Regnault, Jean Baptiste, Baron (1754-1820),

e talented Freich genre painter, who produced also
some noted instoracil pictures. Ils "Three Graces,"
in the Louvre, is one of his best paintings.

Regulus, Marcous Atillus, was a famous Roman
who was twice Convil (267 256 B.C.), and led the
Roman armies against the Carthagmians. Being
captured he was held prisoner for five years, and
then permitted to go to Rome with an emblasy and
submit certain proposals, promising to return to
Carthage if they were not accepted. Arring at
Rome, he prevailed inpon the Schate to decline the
proposals, and then returned to Carthage, and was proposals, and then returned to Carthage and was put to death

Mehan, Ada (b. 1860), the well-known American actress, is a native of Limerick, but accompanied her actress, is a native of Limerick, but accompanied her parents to America when very young At visiteen she made her first appearance on the stage, and rapidly advanced to a leading position. For some years she was Augustin Paly's principal actress, and was equally popular on both sides of the Atlantic. **Leich, Dr. Emil (1834-1910), was lecturer on History at Loudon University, and the author of The Koundaisens of Moarry Europe. A Hungarian, he

was for many years settled in this country, and previously travelled extensively. He published his General History in 1907.

Reid, Rt. Hon. Sig G, H. (b. 1845, in Renfrewshire), went to New South Wales, and entered himself for the Bar at Sydney. He was elected a Member of the Legislature of that colony in 1880, and three years later was Minister of Education. In 1894, he became Premier and Colonial Treasurer, and in 2004 was made Prime Minister of the Federal Parliament of Australia, and led the Pree Trade Party. In 1910 he was appointed High Commissioner in England of the Australian Commonwealth.

Reid, Captain Mayne (1819-1883), was a novelist of exceptional power in writing stories of adventure, the scenes of which were chiefly laid in the Far West. The best known of his stories are The Scale Hienters, The Refa Rangers and The Headless Horszman, Reid Saw active service in the American

Army during the Mexican war.

Army during the Mexican war.

Rold. Thomas (1710-1795), an eminent Aberdeen protessor, who wrote several books on metaphysical subjects, including Essays on the Intellectual Powers of Man, and An Inquiry such the Human Mind on the Principle of Common Serve.

Rold, Bir T. Wennyss (1822-1905), was connected with journalism for many years. Edited the Leeds Mexicary from 1870 to 1887, when he became General Manager in the publishing house of Cassell and Company, and was kinglited in 1894. Wrote two novels, Gladys Fene and Manatewers's Millions, and the lives of W. E. Forster and Lond Honghtons.

Rold, The Hon. Whitelaw (1827-1912). When a very young nan became connected with yournalism as a correspondent during the Civil Nau. Joung the New York Tribina in 1898, the became editor-incheff in 1872. Has represented the United States as Ambissador to France, and in 1905 succeeded Mr. Choate as Ambissador to France, and in 1905 succeeded Mr. Choate as Ambissador in Enghald, where he died in D. C., 1971, his body being conveyed to America in a D.c., 1912, his body being conveyed to America in &

D.c., 1912, his body being conveyed to America in a British ship of war.

Réjane, Madame (b. 1857), a talented French, actress. She has frequently appeared with success in London, her great part hong Madame Sans-Genc in Sardon's draina of that title.

Rembrandt, Van Rhyn (1906-1966), one of the greatest of the Dutch school of painters, who produced many remarkably success his portraits, as well as numerous figure subjects, all of them distinguished by their masterly qualities. He was an etcher of high ability also, and a number of his works are in the Birtish national collections. Butish national collections.

Renan, Ernest (1823-1807), a noted French author

Renan, Ernest (1823-1824), a noted French author who wrote much upon religious subjects, and won special faine by his Life of \$\int_{\congruent} \text{if subjects of the Academy of France.}\$
He also wrote the Liver of \$\int_{\congruent} \text{if subjects of the Academy of France.}\$
René of Anjou (1409-1486), was for a time King of Naples, but his claim to the throat being opposed by retired into private life and devoted himself with success to the pursuit of art and interature.

Rennie, John (1761-1821), a Scottish civil engineer who designed and carried out many important public works. He was the constructor of the Waterloo and Southwark and new London bridges over the Thames, the London Docks, the Fast and West India Docks, the Plymonth breakwater, and many India Docks, the Plymonth breakwater, and many other works at Liverpool, Lerth, Julian, Hull, and elsewhere. His two sons, Str John Rennie (1794-1874) and George Rennie (1791-1866), displayed much of their father's constructive talent, and were concerned in many important engineering enterprises.

Retz, Cardinal (1614-1670), was a native of

Mazarin.

1014-1670), was a native of Montminal, and Adopting the church as a profession quickly rose to eminence, and become a violent political partisan, directing his efforts mainly against Mazarin.

Mazarin. Reuter, Baron P. J. de (1821-1899), was the pioneer of telegraphic press services, and from about 1849 until some years later this news agency stood ahnost alone in its fureign service. He was established in London in 1851, and was created a Baron of the Duchy of Sare Coburg and Gotha twenty years later. His eldest son, Augustus Julius

Clemens Herbert de Reuter, second Baron (b. 1823), in now Managing Director of Reuter's Telegram Company, while his second son, Baron George de Reuter (1863-1908), was a scholarly barrister who displayed considerable interest in geographical study and foreign affairs.

Revelstoke, Baron (b. 1863), is a Director of the Bank of England, and partner in the banking house of Baring Bros.and Co., Ltd. He came into the barony at the death of his father, the first Lord Revelstoke, in 1897, and was called to the Privy Council in 1902.

Revere, Paul (1735-1818), is celebrated in song and story because of his famous midnight "ride" from Boston to Concord to apprese the American troops of Clemens Herbert de Reuter, second Baron (b. 1852),

story because of his famous midnight "ride" from Boston to Concord to apprase the American troops of the proposed advance next day of the English, thus preparing them for the battles of Concord and Lexington which followed.

Raynolds, Sir Joshua (1723-1792), was the first President of the Royal Academy and the most eminent English painter of his time. He devoted the greater part of his talent to portrait painting, and his easel funished fine examples of contemporary Royal and noble people. There is a monument to his memory, by Flaxman, in St. Paul's Cathedral, where he hes buried.

Rhodes, Rt. Hon. Gecil John (1853 1902); borat Bishop Stortford. Went to South Africa in 1871, and with his brother Herbert entered upon a diamond-maining enterprise at Kimberley, quickly acquiring a considerable fortune. He was made a member of the Cape Legislature in 1881, and became

member of the Cape Legislature in 1881, and became Premier in 1800. He was at the head of the British South Africa Chartered Company, and, as a result of certain little wars, a vast amount of territory was annexed. little wats, a vast amount of territory was annexed, the holding of the great microproaction obtaining in due course the name of Rhodesia. Mr. Rhodes, who was made a Prny Councillor in 1893, was elected Cape Premer for the second time a year later; then followed the Jameson Raid, which led to his abandoment of political hie. When the war with the Boers broke out, Mr. Rhodes was detained in Kiniberley during the seege, and he did not hue to see the campaign closed. By his will be left the bulk of his fortune for the founding of scholarships, devised upon an Imperial plan, at Oxford.

Rioardo, David (1772-1823), a celebrated English political economist of Hebrew desent, whose Principles of Political Economy, published in 1817.

pointed commiss of Political Economy, published in 1817, gained him a high place among the exponents of the science. He was in Parliament for the last five

ears of his life.

years of mine.

Richard I. (1757-1879) was King of England from
1189 to his death. He had heavy burdens upon the
people in order to equip an army for the third
Crusade. At first he was victorious, and did such valiant deeds that he received the name of "Coour de Lion. Being ultimately defeated, he signed a truce with Saladin, and on his way back to England was shipwrecked. Discussed as a pugiann, he was demified in Austria, and handed over to the Emperor of Germany, who impresoned hum in a remote castle.

A large sum was demanded and paid for his ransom,

A large sum was definanted and joud for his ransom, and arter over a year of duratine he returned to England, and was crowned at Winchoster. Later le was engaged in a war with France, and was mortally wounded by a bolt from a crossbow while besieging the castle of Chaliz in Normandy. Richard II. (197-1400), son of the "Black Prince," succeeded his grandfather, Edward III. in 1977, when but ten years old, a Regency herig appointed during his minority. In the Wat Tyler rising of 1984 the King contronted the roters and promised them redress, an undertaking which he did not fulfil. For a time he was greatly under the influence of his uncle, Thomas, Duke of Gloucester, but on coming of are dismissed him, and ruled with some approach uncle, Thomas, Duke of Gloucester, but on toming of age dismissed him, and ruled with some approach to dignity for the next seven years. After 1395 he developed a highly tynamical disposition and banished or just to death many of the leading statesmen, practically recently himself from Farliamentary control. The opposition against him came to a head in 1399, when Bolingbroke defeated him, and he was made prisoner and died—probably by violence—in Pontefract Castle.

Richard III. (1452-1485) made himself King of England in 1483 by a succession of wicked acts and intrigues, removing obstacles from his path by murder without compunction whenever he deemed such a course desirable. He was not, however, permitred to have peaceful possession of the throne; a strong party in favour of Henry Tudor, Earl of Richmond, springing up. In the battle between the rival forces at Bosworth Field he was slain. Richards, Brinley (1819-1885), a Welsh composer and musician of note, who was for many years a professor at the Royal Academy of Music. Among his many songs none has achieved nore success than "God Bless the Prince of Wales," the Welsh National Anthem.

National Afficient.

Richardson, Sir Benjamin (1828-1896), an emment physician and writer on health. He was one of the most zealous champions of temperance of the time, and a man of unbounded energy. He invented a protective mask for workers who ran risks from inhaling fust of various kinds, and also introduced the lethal chamber for the painless determine of deep. destruction of dogs

Richardson, Sir John (1787-1865), was a Scottisk physician and Arctic explorer, who accompanied Franklin in his earlier expeditions, and later con-

random in his camer expeditions sent out in search of his fill-fated former chief. He was knighted in 1846. Richardson, Samuel (1692-1902), was a successful London printer, who, when over fifty years of age, published his first novel Pannela, which achieved such a success that four editions of it were sold in the first. year. His Clarissa Harlowe appeared in 1749, and was followed by Sir Charles Grandson in 1753. All these works, though somewhat prolix and tame as to incident, were conceived in a noble spirit, and gave

incident, were conceived in a noble spirit, and gave to their author inertice cell brity.

Richellen, Cardinal Duo de (1858-1649), the minimum French eccleator and statesman, who was Minister to Lam, XIII. for eighteen wers, He was practically Master of France during the best part of his Cardinalate. Detecting the Protestants, he did his unnost to render them powerless, and was himself practically his command of the French Army at the Siege of La Rochelle. With the Huguenost humilitated, he next set himself to destroy the power of Austra, them supreme in Faripe, and this led to the Thirty Years' War. His grand nephew, Duc Levis de Richelieu (1656-1748), was a Marshal of France and a soldier of distinction in his day; whils the Marshal's grandson, Duc Armend de Richelieu (1766-1822), was an astute politicum, vho cut i (1706-1822), was an astute politician who cut a

considerable figure in the service of both Russia and his native France.

Richmond, Sir W. B., R.A. (b. 18;), a painte-who has produced many important inctures an oportraits. The interior decoration of St. Paul-Cathedral owes much to his genius. He was Slade Professor at Oxford from 1878 to 1873.

Richter, Bugon (b. 1888), a German politician of prominence, and a leading journalist, who has thrown much energy and alabity into the championship of the cause of the people.

Bichter, Dr. Hans (b. 1843), conductor of the famous Richter Concerts for many years, from 1879; holds a high place among modern musical conductors. In 1871 was conductor of the Hungarian National Opera at Budopest, In 1875 became garian National Opera at Budapest. In 1875 became conductor of the Vienna Opera, In 1885 was appointed conductor of the Birmingham Festival, and from 1900 to 1912 conducted the Haile Or chestra with much success.

Richter, Jean Paul (1763 1825), a famous German author, who produced numerous books of romance, essays, and other writings, which Carlyle did much

essays, and other writings, which Cariyle did much to popularise in this country.

Riddoll, Mrs. J. H. (b. 1821), a novelist whose writings achieved considerable popularity. Her first mark was made with The Ruling Passion in 1836, and of her other stones George Geath (1863) stands out prominently.

Ridge, W. Pett, a humorous writer and profife movelist of the modern school, who goes for his subjects to the poorer quarters of London mostly.

He is a Kent man, and first attracted attention with his A Clever Wife and Missor Dialogues in 1895. Among his best-known tales since published are Three Women and Mr. Frank Cardwell, Mord Emly, A Son of the State, and Telling Stories. Bidgeway, Rt. Hon. Sir West (b. 1837), has been a soldier and a British political agent abroad; seen arthurs special service in India and on the

been a soldier and a British political agent abroad; seen arduous special service in India and on the frontier, been Under-Secretary for Ireland, Governor of the Isle of Man, and Governor of Ceylon.

Ridley, Eatthew White, 1st Viscount (1842-1904), was a useful Conservative statesman who, having served in minor Ministerial capacities, and made an admirable Whip, was rewarded with Cabhet rank and the Home Secretariat in 1895; and, having fulfilled that post creditably, went to the Upper House with a Viscounty in 1900.

Ridley, Nicholas (1800-1855), was Bishon of Rockester in 1847 and Bishop of London in 1850. He took an active part in the Reformation, and in the persecution which Mary instituted against the Protestants, was first subjected to imprisonment in the Tower, and then burned at the stake along with Lammer.

with Laumer.

Mel, Louis (1844-1885), a French Canadian who instigated and led the Red River rebellion of 1869-1870, and later the rising of French half-breeds in Manitoba, when he was captured, tried, and executed.

Rienzi, Cola di (1313-1354), a Roman patriot of humble birth who inflamed the people against their humble birth who inflamed the people against their rulers, and aroused such enthusasm that they proclaimed him "Thome" During the seven months that he was penantied to exercise supreme power, he proved himself the true friend of the poor. Ultimately, however, his enemies proved too strong for him, and he was unprisoned for three years at Avignon. Returning to Rome after gaining his freedom, he was numbered in the Capitol.

Rigg, Ray. Dr. James H. (1821-1909), was principal of the Wesleyan Training College, Westton de des, and exercised a commanding influence in the Methodist communion, twice occupying the Pesidential position in Control of the de decoupting the Pesidential position in Control of the design of the communion for the control of the presidential position in Control of the design of the presidential position in Control of the control of the presidential position in Control of the control of the presidential position in Control of the presid

twice occupying the Presidential position in Con-ference. Was one of the original members of the

ference. Was one of London School Board.

Ripon, Marquis of (1857-1909), sat in the House of Commons as Lord Goderich from 1852 to 1859, wh. n he succeeded to the Earldom of Ripon. An ad-

he succeeded to the Earlian of Kupon. "An adappointments, until he, in 1863, became Secretary
for War, and in 1866 Secretary for India. In Mr.
Gladstone's first Government of 1868 he was Lord
President of the Council. In 1871 he was Chanman of
the Alahama Claims Commission, and was raised to
the marquisate. In 1860 went to India as Viceroy. In
1886 was 1-rist Lord of the Admialty, and from 1892
to 1895 Colonial Secretary. At the close of 1905
Lord Kipon, still an active spokesman of Literalism,
became Lord Privy Seal, holding the position up to
7008, when he retired.

1908, when he retired.

roos, when he retired.

Ritchie, Anne Isabella, Lady (b. 1838), is the eldest daughter of Thackenay, the novelist, and herself a novelist of some note. Her most popular tales are The Story of Elizabeth (published in 1803), The Village on the Claff, and Old Kensington. She has also written several interesting books of renumscences. Sir Richmond Ritchie, her husband, was Secretarit to the Boltrical Desirations of the India. Secretary to the Political Department of the Indua Office 1902-1910, and permanent Under Secretary of State, India Office, from 1910 to his death in

Bitchie, Rt. Hon. C. T., ist Lord Ritchie of Dundee (1838-1905), entered Parliament in 1874, and subsequently in Conservative Governments held various Minusterial appointments. Was Secretary to the Admiralty in 1885; President of the Local Government Board in 1886; President of the Board of Trade, 1895-1900; Honie Secretary, 1900-1902; and Chancellor of the Exchequer, 1902-1903, Resigned on the Free Trade question in 1905, and afterwards was given a peerage.

Bitter, Karl (1779-1859), the celebrated German geographer, was for many years Professor of History at Frankfort, and later Professor of Geography at

Berlin. He is best known by his Geography in its Relations to Nature and History.

Riviere, Briton, R.A. (b. 1840), a famous painter of animal subjects, whose range is as wide as his skill is great, specially excelling in the depiction of the fiercer beasts in incidents of life and action.

"A Roman Hohday," "Daniel in the Llons Den," and "The Miracle of the Swine," are among his best known works

known works.

Rizzio, David (1540-1565), was the Italian secretary of Mary Queen of Scots and an accomplished musician. Suspected of a too great attachment to Mary, he was nurdered by Darnley and his friends in the Queen's prevence in the Palace of Holyrood.

Robbia, Luca Della (1400-1482), a famous Florentine sculptor, many of whose works are still to be seen in his native city, and include a sculptured tomb of Federighi, Bishop of Fiesole, in the Church of San Francisco. He was the introducer of enamelled terrestert work. terra-cotta work.

Robert of Gloucester, a celebrated rhyming chronicler of the second half of the 13th century, who wrote a history of England based on the older work of Geoffrey of Monmouth. He also wrote a number of Lives of the Saits.

Roberts, David (1706-1864), a celebrated English painter who travelled in the Holy Land and Spain,

Roberts, David (1796-1864), a celebrated English painter who travelled in the Holy Land and Spain, and afterwards published a clever series of sketches of scenes in those countries. His best work, however, took the form of somewhat large canvases, in which prominent architectural effects were picturesquely dealt with. He was elected R A. in 1841.

Roberts, Field-Marshal Earl (b. 1829, the most distinguished of living British solders. Was born in India, and at nineteen was serving with the Bengal Arthlery. In the Indian Mutumy lie proved his capacity on many occasions. Was at the relief of Lucknow, and assisted in the siege and capture of Delhi, Again saw active service with the Abyssinian Expedition of 1829-1828, and with that to Lushai of 1871-1872. In 1878-1879 was entrusted with the command of the Keam Held Force, and made his historic match from Kabul to Kandahar in 1880. In 1880 had command of the array in lhuma. In 1892 was taised to the peccage as Baron Roberts of Kanddhar. In 1892 he returned to England from India, and two years later was appointed to succeed Lord Wolsely in the Irish command. In 1900, after the many disisters which befell the Englisheres. In South Africa, he was despatched as Commander-in-Chief, and in the course of a few months entirely changed the aspect of affairs, releved the beaseged places, and won complete vetories over the Boers. He then landed over the Command to the beauged places, and won complete victories over the Boers. He then handed over the command to Loud Kitchener, teturning to Lingland to succeed Lord Wolseley as Commander in-Chief of the British army. He received a grant of £100,000. Is deeply interested in a scheme for compulsory National Service, which he strongly advocates.

Robertson, Rt. Rev. Dr. Archibald, Bishop of

Factor (b. 1853, at Edmburgh). Educated at Oxford, and became Principal of Bishop Hatfield's Hall, Durham, in 1833. In 1897 was appointed Principal of king's College, receiving the appointment of the

Durham, in 16:3; In 1697 was appointent runcipos of Kunys College, recoving the appointment of the See of fixeter in 19:3.

Robertson, F. W. (1816-18:5]), was a remarkable preacher, and from 18:8 to his death had pastoral charge of Tranty Chapel, Brighton. He attracted the friendship of many eminent men, and the sermons of his which were published after his death are ruli of beautiful thoughts beautifully expressed.

Robertson, T. W. (18:30-18:1), was a highly successfull drainatist who, between 18:6 and 18:70, produced a remarkable series of Society 18:39, at the Prince of Wales's Theatre, Tottenham Court Road, in those days presided ever by Marie Wilton and Mr. Baincroft (afterwards Sir Squire and Lady Baincroft). This series, beginning with "Caste," included "Society." "Ours," "School," "Play," M.P.," and others, each of which enjoyed a long run. Robertson was also the author of "David Garrick," written for Sothern in 1864. Madge Robertson (Mrs. Kendal), the actress (b. 1840), is a sister of "Tom."

Robertson, William (1727-1793), was a Scottish

divine and historian. His History of Scotlana during the Reigns of Queen Mary and James VI., History of the Emperor Charles V. and History of America are works of high merit. Robesplerre, Maximilien (1758-1794), was a country advocate until the outbreak of the French

country advocate until the outbreak of the French Revolution, when he went to Paris and became an enthusiastic leader of the Jacobin Party, and was made a Member of the Assembly, In the Reign of Terror his was the ruling mund, and as President of the Committee of Public Safety he sent vast numbers to the guillotine. Then came the

numbers to the guillotine. Then came the reaction; a counter-movement was set on foot by Tailien and others. He was denounced in the Assembly, and trying to secape, was shot and subsequently guillotter with in a dying state.

Robinson, Dean Armitage (1226) have added a highly successful arrent and the Chirch, was domestic Chaplan to the Rushop of Durham in 1893, became Rector of St. Margaret's, Westmister, in 1893, was Dean of Westmister (1902), and since 1911 has been Dean of Westmister (1902), and since 1911 has been Dean of Westmister (1902), and since 1911 has been Started wool-buying and farming in early manhood, and in 1867 acquired a large tract of territory, bordering the Vaal Kiner, where he was fortunate enough to discover diamonds. In this and other speculations he has made an immense

and other speculations he has made an minense fortune. Was Mayor of Kunberley in 1850. Robinson, Bir J. R. (1828-1903), a genial and much esteemed Londou journalist, who was munager and editor of the Party News for close upon half a century; received his lingathood in 1893 and retired two years before his death.

Reb Roy (1671-1734), a noted Highland outlaw who levied blackmail on the farmers and rich people of

levied blackman on the farmers and rich needed the country-ade in return for certain protective services, supposed or actual. He belonged to the clar Mt Gregor, and, as every body knows, was the hero of Scott's novel bearing the name.

Robson, Lord W. B., K.C., P.C. (b. 1853)
Entered Parliament in 1885 as a Liberal, and proved himself an able Party debater. Was appointed Recorder of Newcastle in 1895, and given the Solicitor-Generalship in Sir H. Campbell-Bannerman's Ministry at the clove of 1905. Became Attorney-General in succession to Sir J. Lawson Walton in 1908 Made a Lord of Appeal in 190, and resigned on account of ill-health in 1922. TOI2.

Robeart, Amy, daughter of Sir John Robsart, and wife of Robert Dudley, afterward: Farl of Leteester While hving in seclusion at Cumnor Place under the charge of Anthony Forser, she met her doubt either charge of Anthony Forsier, she met her death either by accident or foul play, by the latter according to common belief. Elizabeth's favourite having reason to wish her out of the way. She was discovered dead at the bottom of an old staircase.

Rochester, Earl of (167-1680). Poet, wit, and profigate. Europed a great reputation for epgrammatic verse and reparter at the Court of Charles II, and was a man of undoubted brithlance, and might have achieved much had he been recessed by worther applitunes.

possessed by worther ambitions.

Rockefeller, John D. (b. 1830), said to be the mobest man in the world, was born on a small farm in New york State, and there worked until stateen. Migrated to Cleveland, and found employment in an office for a few years. About this time the oil trade was in a disorganised condition, owing to the reckless trading and crude methods of refining. Rockefeller saw what was wrong, and resolved upon trying to remedy it. Later he began oil-refining, and entered into the business with such vigour or burpoose, and made so many improvements. But made so, and entered into the business with such vigour of purpose, and made so many inprovements, that he became a millionsire m a very few years. From the exertions of hinself and associates gr. w the Standard Onl Trust, beginning with a capital of £200,000 in 1870, and increasing and extending at such a rate that in 1892 the capital had reached twenty-two millions sterling.

Rockingham, Marquis of (1737-1782), a Whig statesman who was English Prime Minister in 1765, when, by repealing the Stamp Act, he showed a

disposition to conciliate the American colonists. Pitt, however, came into office the following year; and Rockingham, who had persistently opposed Lord North's policy, accepted office again in 1782, when the American War was the one serious question of the day, and he was anxious to bring it to a just termination, but he died before this could be accomplished.

Rodin, Auguste (b. 1841), the most celebrated French sculptor of the time, possessing a bold and original genius. His numerous statues and his fine historic monument for the city of Calais com-memorating the bravery of Eustache de Saint-Pierre

memorating the bravery of Eustache de Saint-Pierre have brought Rodin well-deserved fame.

Rodney, George Brydges, Baron (1710-1702), a British admiral who, after serving in various parts of the world with distinction, commanded the British feet in the battle with that of Spain in 1720 off Cape St. Vincent, winning a gallant victory. In 1720 he defeated the French feet off St. Lucia, and was given a peerage and a pension of £2,000 a year.

Roebuck, John Arthur (1800-180), a Radical politician, who was in P. rilament from 1832 to the time of bit death. except 50 a very short operad.

politician, who was in P. rliament from 1832 to the time of his death, except for a very short period. Was a bold and able debater, though at no time a reliable party man, because of his independent and sometimes eccentric artitude on public questions. In 1835 his proposal for an Inquiry into the mismanagement of the Crimean War resulted in the dewntall of Lord Aberdeen's Ministry. He obtained the solvinguet of "Tear 'em."

Roger of Wendover, who died in 1237, was a monk of St. Albans, and later Prior of Belvoir. He wrote a lustory of the world under the title of Floriers of History, which has been of great value for its

of History, which has been of great value for its antiquarian lore.

antiquarian role.

Rogors, Henry (1806-1877), a thoughtful essayist and scholar, and author of The Eclipse of Faith, which ittracted great attention in religious circles on

its imblication.

its jublication.

Rogers, The Rev. J. Cuinness. D.D. 1822
1011. For many years an active Nonconformist

le oter. Was minister of Clapham Congregational

Church for thirty-five years, chairman of the Congregational Mission in 1874, and the author of numerous

alie books on religious subjects. His autholography,

published in 1904, is an important work.

Rogers, James E. Thorold (1823 1890), Professor of Political Economy at Oxford 1862 1868, and for some time in Parliament as an advanced Liberal.

news of her execution.

his time.

some ting in Parliament as an advanced Liberal. His books, History of Agriculture and Proces in Fingland, Six Centuries of Work and Wages, and The Benomic Juse predation of History, were all notable productions.

Rogars, John (1599-159), was a friend of Tyndale's, and worked with him in compiling the English version of the Bible published in 1829. After Mary's accession he was arrested for preaching a sermion against Romanism, and ultimately burned at the stake in Smithfield, being the first of the many matters of the resion.

stake in Similineti, being the first of the many martyrs of the reign.

Rogers, Samuel (1763-1855), the banker-poet who wrote "The Pleasures of Memors," "Italy," and other works which contain much graceful thought sympathetically expressed. His writings procured for him the friendship of the leading hierary men of the bank.

his time.

Roland, Mrdame (1753-1793), was one of the leading figures of the French Revolution. It is fundabled, Jean Marie Roland de la Plattère (1734-1793), who was one of the Ministers during the Girondist period, escaped from Paris on the disruption of his Party, but his wife remained behind, and was sent to the guildoine. During her incarceration she wrote an Appeal to Posterity, remarkable for its beauty of sentiment and particule enhusiasm. Her husband committed suicide on receiving the news of her arcention.

news of her execution.

Rollin, Charles (1667-1741), a distinguished French historian who enjoyed great renown in his time as the author of Aucient History, Roman History, and other works. He was a Jansenist, and to that fact owed the deprivation of important appointments.

Rollifs, Sir Albert (b. 1849), was for many years

engaged as souctor in Hull, of which borough he was several times mayor. He entered Parliament in 1886 as member for South Islington, and became a prominent debater when commercial and municipal matters were under discussion. He is a member of a firm of shipowners, as well as a lawyer, and was knighted in 1885. He has received several foreign orders of distinction. engaged as socicitor in Hull, of which borough he was

Romaine, William (1714-1795), was a popular Church of England clergyman and preacher, and the author of the Life of Faith, The Triumph of Faith, etc., works which were at one time much read.

etc., works which were at one time nuch read. Romanes, George John (1842-1864), a Canadian naturalist who lived mostly in England and while at Oxford attracted attention by his studies in natural history, his works on Mental Evolution in Animals and Animal Intelligence being distinguished for a retunikable closeness of observation.

Romilly, Bir Samuel (1757-1818), a famous English lawyer who was Solicitor-General in 1806 and for many years had a distinguished career both in Parlament and at the Par. He effected many improvements in the Crimmal Law. His death occurred in painful circumstances, he putting an end to his life whilst suffering from brain lever.

to his life winist suffering from brain lever. Romney, George (1734-1802), was born in North Lancashure, studied portrait painting with a Kendal artist, and for a few years obtained a living by local portrait painting. Going to Loudon in 1962, his talent gamed him Speedy recognition, and, after studying for a couple of years in Rome, he set up as a contrail account of Capandals Square and the page a portrait-painter in Cavendish Square, and became highly successful. His portraits are among the finest examples of that kind of art that England has

produced, and to day realise large prices.

Ronge, Johannes (1813-1887); an emment German ecclesiastic, who caused a considerable sensation in 1844, by declaring the Holy Coat of Treves to be an imposture. He hved in London from 1848 to 1861, when he returned to Germany and there died.

Ronard, Pierre de (1524-158), a famous French poet whose clegant "Odes," "Amours," and other mitations of ancient authors earned hun great popularity in his own day, and a special place in his country's literature.

Röntgen, Professor Conrad William (b. 1845). the entinent Cerman scientist—formerly Director of the Wurzburg University Laboratory, and since 1899 Professor at Minuch—whose discovery of the Rüttgen rays in 1895 created such a world-wide sonsation and has proved of such unestimable value in surgical practice and other chrections. Besides his X-rays discovery, he has made other import int

aboratory investigations, resulting in the solution of difficult chemical problems **Books, Admiral Sir George** (1650-1709), was one of the most notable seamen of his time, and for his spirited attack on the French fleet off Cape La

spirited attack on the French fleet off Cape La Hogue in 1692 was kinghted. He further distinguished hinself at Mahya in 1704, and the same vector with Sir Cloudesley Shovel captured Gibraltar. Becewell, Theodore in 1858, Fresident of the United States of America from the death of Mr. McKniley in 1901 until 1909 Harvard, and spent some years in the Far West bunting and shooting; then he returned to New York, became a Member of the State Legislature in 1882, and soom made a name for hunself. Was 1881, and soon made a name for hunself. Was nominated for Mayor in New York City in 1886, but defented by the Tammanystes. He then retired to the West again for a year or two. In 1889 was made a Member of the National Civil Service Commission, a position which he held for six years. I .4895 became one of the Police Commissioners in New York. and in 1897 was appointed Assistant Secretary of the and in 1897 was appointed Assistant Secretary of the Navy, a position which he resigned on the outbreak of the war with Spain, organised a regiment of Rough Riders, and commanded that body in Cuba. After the war was elected Governor of New York State, and in 1900, when McKinley was elected President he was carried as Vice-President. On the assassination of McKinley he succeeded to the Presidency, and in 1904 was re-elected to the position. For his efforts in promoting peace was awarded the Nobel Prize in 1906. In 1909 went on a big game shooting expedition to South Africa; returning in 1970 he made the tour of the chief capitals of Europe, making vigorous speeches. In 1972 became candidate for the presidency in opposition to Taft and Woodrow Wilson, as an Independent Programme candidate A polytrol for president Programme candidate. tion to lair and woodrow wilson, as an independent Progressive candidate. A political fanatic attempted to assassinate him on October 14 at Milwaukee, and with the bullet in his breast he made a speech of over an hour Was defeated at the election. In 1914 explored the wilderness of Brazil and discovered a large river.

and uncovered a large river.

Root, Hon. Eilhu (b. 1845), prominent American statesman Secretary of War 1800-1904, Secretary of State 1905, in succession to Col. Hay. Visited South America and Mexico in 1907.

Rosa, Salvator. (See Salvator Rosa.)

ROSES, DAIVEDOF, COMMENCE (1793-1877), was the first President of the Argentine Republic, attaining that position after much desperate fighting as Communider-in-Chief of the Army, He remained President from 1835 to 1852, when a sudden Revolu-tion caused him to quit the country, and he retired to a small farm near Southampton and there died.

Roscoe, Rt. Hon. Sir Henry Enfield, P.C. (b. 1833), grandson of William Roscoe the Instorian. and a great modern chemist. He has written largely on chemical subjects, was Vice-Chancellor of London University from 1896 to 1902, and President of the British Association in 1887. An ardent Liberal politician, he sat in Parliament for some years for Manchester, and has been a member of several important Royal Commissions,

ROSCOS, William (1753-1831), the well-known historian whose Life of Lovenzo de Medica became one of our standard histories. He was also a poet of

considerable ability.

Rosebery, Earl of (b. 1847), has been an active Liberal politician and statesman. He succeeded to Libera pointche and statesman. He succeeded to the title in 1808, and in 1868 was Mr. Cladstone's Under-Secretary in the Home Department. This post he resigned in 1883, and afterwards made a trip round the world with his wife, who was a daughter of Baron Meyer de Rollschild. In 1884 he was made first Commissioner of Works, with a seat in the Cabinet. In 1886 he became Foreign Secretary. In 1886 he secuted the Chapting why of the London. 1892 he accepted the Charmanship of the London County Council, and was again in charge at the Foreign Office in Mr. Gladstone's later Ministry. When Mr. Gladstone re igned in 1894 he became. Premier, but resigned in the following year, and in 1896 gave up the Liberal leadership. Since then he has held somewhat aloof from his Party, although from time to time giving specifies of a markable power on the topics of the day. Is a Free Trader.

Rosmead, Lord (1824-1897), was lest known as Sir Hercules Robinson. He held at one time and another numerous Colonal Governorships, including those of Ceylon and New South Wales, and suc-ceeded Sir Bartle Frere in 1880 as High Commissioner of South Airca. In the difficulties with President' Kruger he showed conspicuous tact, and in 1805 went to South Airica a second time, when the unfortunate Jameson Raid occurred, and matters became so unpleasant that he returned to highland, being raised to the peerage as Baron Rosmead. Ross, Sir James (1800-1802), achieved distinction

Ross, Sir James (1800-1802), achaved distinction as an Arctic explorer, accompanying his uncle, Sir John Ross, and Captain Parry on their expeditions. He was commander of the expedition of 1830-1843, and to him belongs the credit of the discovery of the North Magnetic Pole in 1831.

Ross, Sir John (1777-1856), the eminent explorer (uncle of the foregoing). He made several voyages to the Polar regions, and wrote some interesting and valuable works describing his adventures and discoveries. He was British Consul at Stockholm for some years, and on receiving his kinglithood Parliament granted him a sum of £5000.

Rosse, William Parsons, 3rd Earl of (1800-1867), was an astronomer of considerable note who contributed greatly to the advancement of science

contributed greatly to the advancement of science by erecting in his Irish park at Birr Castle, King's County, the largest telescope that had up to that

time been constructed. It cost £30,000, and afforded the means of discovering and defining the spiral nebulæ. From 1848 to 1854 he was President of the Royal Society.

Rossetti, Dante G. (1828-1882), was the son of Gabriele Rossetti (1783-1852), an exiled Italian author who settled in London in 1824. Dante showed great talent as a painter from boyhood, and became one of the Pre-Raphaehte Brotherhood, formed in 1848. From about 1850 lie produced a great number of pictures remarkable for their extreme beauty of of pictures remarkable for their extreme heauty of drawing, splendour of colouring, and poetic force. Among his best-known paintings are his "Ecce Ancilla Domini," "Soing of Solomon," "Beatrix," "Lällith," and "Dante's Dream." He also distinguished hinself as a poet; his two volunies, published in 1870 and 1881 respectively, reflect many of the characteristics of his paintings.

Rossetti, W. M. (b. 1820), brother of Dante G. Rossetti, and a cultured critic; has edited numerous advices of the north and writtens which a new 1842.

editions of the poots and written much on art. He held an appointment at the Board of Inland Revenue for a quarter of a century.

Rossini, Gioacchino Antonio (1792-1868), one of the most brilliant of modern Italian composers, who the most brilliant of modern Italian composers, who devoted his genus principally to opera. It is first opera, "Tancredi," was produced at Venice when he was twenty-one. It was followed after a short interval by "Il Burbiere di Seviglia," "La Cenerencia," of Cello," "Mode in Egitto"—this latter an oratorlo—"La Donna del Lago," "Semiranude," and "Guillaume Tell." All these appeared between 1816 and 1829 Though mostly florid in style, and calling for exceptionally brilliant execution, Rossin's operas were amongst the most popular works of the earth century, and canned the commoster fame and 10th century, and earned the composer fame and fortune. He also wrote a "Stabat Mater" in 1842, and a "Messe Solennelle" in 1864.

Rostand, Edmond (b. 1868), dramatist and member containd, Scamond (b. 1888), dramatics and member of the Freich Academy, Jumped into tame by his Cerano de Bergerac, 1888. The chief dramatic sensation of 1912 was his Chanteler. His works are marked by great originality of conception and boldness of treatment. Made a Commander of the Legion of Honour in 1912.

Begon of Policiar in 1912.

Sonachild, Lord, P.C. (b. 1840), was in Parliament

—as Beron (of the Austrian I impire) Rothschuldfrom 1865 to 1845, representing Aylesbury. In the
last-named year he way raised to the British peerage
He is the fleed of the Jamous Rothschild bunking house in England, and was appointed chairman of the Old Age Pension Committee by Parliament.

Rothschild, Alfred Charles de (b. 1842), a member of the Rothschild firm; has been a Director of the Bank of England, is a Trustee of the National Gallery and of the Wallace Collection. He is a well-known art connoisseur and sportsman.

well-known art connoisseur and sportsman.

Rothschild, Anselm Moyer (1743-1812), was born at Frankfort-ou-the-Maine, and after some experience in a bank as clerk, set up for himself first as a money lender, then as a banker. By his splendid genus for finance he acquired a large fortune. His son, Natham Neyer Rothischild (1777-1826), took clarge of the London house, and conducted its affairs with great success, and was made an Austran Baron in 1822. He was succeeded by his chilest son. Baron finded the Britischild with the subject son. Baron finded the Britischild by his clost son, Baron Liouel de Rothschild (1808-1879), who was the first Jewish incider of the House of Commons Of this latter, Lord Rothschild and Mr. Alfred Rothschild are sons.

Roubillac, L. F. (1695-1763), was a French sculptor who lived in London from 1720 to the time of his death, and during that period contributed many monuments to Westminster Abbey. His statue of Sir Isaac Newton at Trinity College, Cambridge, is

one of his finest productions.

Rousseau, Jean Jacques (1712-1778), was born at Geneva, and after a hard and wandering life, made the acquaintance of Madame D. Warens, with whom he resided for ten years as secretary and minution. In 1745 he proceeded to Paris, where, after a time, he made the acquaintance of Diderot, and wrote under his encouragement. Meanwhile Rousseau had been studying social questions with great ardour, and in 1750 published his romance, Youlie, on la Nouvelle Hillery, which was followed in 1762 by Emile. These two works contained so much that was at variance with convention, and so opposed to all ideas of moral restraint, that they called forth the condemnation of the orthodox, and Rousseau was obliged to leave Fiance for a time. It was while in England that he wrote his remarkable Confessions, and his celebrated La Contral Social. He gave to France a new field of thought, and laid down principles of government and conduct which bore fruit in the French Revolution.

Rowe, Nicholaa (1673 1718), was a prominent dramatist who became Poet Laureate, and whose plays, "Jane Shore" and "The Fair Penttent," were highly popular. Was buried in Westmuster

Abbey.

Röző, ifadame Marie, an eminent prima donna.

who has now retired from the stage and established
an academy for the teaching of singing in Paris and London, her Paris season being in the winter and her London season in the spring and summer. The successful career of this accomplished artiste is well known. She studied under Auber and Mocker at the Paris Conservatoire, gaining the first prize for singing and the gold medal. Her first operatic engagement was at the Opera Configure in 1870, and in the same year she received decorations and diplomas for her nursing services among the wounded, and for the money she raised for the Soldiers' Fund by singing. She first appeared in wounded, and for the money sine first appeared in England in 1872, actineving a pronounced success at the opera houses. Her first istit to America was in 1877. Side has had many honours conferred upon her, and is a teacher of the very first rank. Her Paris studio is at 37, Rue Joubert, the Loudon address is c/o Messrs. Novello, Music Publishers, Wardour Streeet, W.
Rubens, Bir Peter Paul (1577-1640), one of the most notable of Flemish hometers, who, after studying in Italy, established himself at Antwerp, where he produced a number of instorical and religious works which made him a great reputation. From 1620 to 123 he was, employed by Marie de Medici on a series of protures for the Luxembourg Palace, and was in England in 1629 Lanting for Charles I., who kinghted him. He died at Autwerp.
Rubinstelin, Anton E. (1620-1844), a famous Russian pianist and composer. Was the most expect performer on the piano of his time.

expert performer on the piano of his time.

Ruddiman, Thomas (1674-1757), an eniment Scot-tish classical scholar, whose Rudiments of the Latin Tongue was a standard school book for a long period Ruddinan was librarian to the Faculty of Advocates in Edinburgh for nearly half a century.

Rumford, Sir Benjamin Thompson, Count von 1773, i-ital, was an American natural philosopher and stateshian, who sided with the Royal party on the outbreak of the War of Independence, and later on settled in Ikavaria, accepted service under the Ring, and was made Count. He was in London in 1795, and afterwards resided in Faris. He was associated with the founding of the Royal Institution of Great Britain.

of Great Brtain,
Runciman, Rt. Hon. Walter, M.P. (b. 1870), a
son of Sir Walter Runchain, of Newcastle, An
active Laberal, who represented Oldhain in
Parliament in 1890-1900, and has sat for Dewsbury
since 1902. Was Parliamentary Screetary to the
Local Government Board 1905; Financial Secretary
to the Treasury 1907; President of the Board of
Education, 1908-1911; and President of Board of
Agriculture since 1911. Agriculture since 1917.

Agriculture since 1911.

Rupert, Prince (1619-1682), was an ephew of Charles
I. and son of Frederick V., Elector of Bavaria.

During the Civil War he fought gallantly on the
Royalist side and at the Restoiation rose into favour
at Court, and was made Governor of Windson.

Ruskin, John (1839-1900), art critic and philosopher,
was the son of a wealthy London wine merchant.

His Moderns Painters exhibited a masterity percepion of the networked sof art and a boundless gift of

tion of the principles of art and a boundless gift of literary expression. Other volumes appeared at intervals until 1860. Meanwhile he had published

The Seven Lamps of Architecture and The Siones of Vessee, two memorable works which considerably enhanced the author's fame. Always taking a deep interest in economic questions, Ruskin delivered and published numerous lectures on a wide range of subjects—art, pleasure, religion, war, work, and so forth; and he was acknowledged to be one of the greatest thinkers of the time. Often his views were impracticable and even eccentric, but behind them there was always evident a sincere desire to promote

Russell, Sir E. R. (b. 1834), became connected with the Liverpool Daily Post in 1860; was in Parliament from 1885 to 1897, and has shown great ability as a dramatic critic and political writer. He was brinched in 1800.

was knighted in 1893.

Russell, George Wm. Erskine, L.L.D. (b. 1853),
held various appointments in the Gladstone Governments between 1883 and 1895, and is the author of several bright books of gossip and reminiscences. His Collections and Recollections, Milestones on the Road of Lys, and Seeing and Hearing have been

Rosa of Life, and Seeing and Licering mare occurs
wheley read.

Russell, John, 1st Earl (1792-1878), was the third
son of the 6th Duke of Bedford. Entered Parliament
as Lord John Russell on attaining his majority, and,
ranging himself on the Liberal side, showed great
capacity for affairs. He it was who introduced the
first great measure of Reform, which was passed in
1892. He was leader of the House of Commons and
thome Secretary under Lord Melbourne from 1892 Home Secretary under Lord Melbourne from 1835 until 1839; in which latter year he was appointed Secretary for the Colonies. Then from 1841 to 1846 Secretary for the Colonies. Inch from 1841 to 1840 he was in Opposition; but, on the defeat of Peel on the Corn Law question, was unde Prince Minister, remaining in power until 1852. In Lord Aberdeen's Ministry he was Foreign Secretary, and afterwards Lord President of the Council. When Palmerston took up the reins of Government in 1855, Lord John Russell became Colonial Secretary and later on Russell became Colonial Severary and latter on Foreign Secretary. In 1861 he was raised to the peerage, and from 1865 to 1865 was once more Prince Minster. He also wrote lives of Thomas Moore and Clarles James Fox.

Russell, Re. Kron. Thomas W., M P. (b. 1841), represented Tyone from 1886 to 1010, and from 1865 to 1000 was Secretary to the Local Government

Board. Is an ardent temperance man, and was a warm supporter of the Irish Land Purchase Scheme brought forward in 1990. In 1997 was appointed Vice-President of the Irish Department of Agriculture and Technical Instruction, and made a Privy

Councillor in 1908

Russell, William, Lord (1639-1683), remembered

in history as having suffered execution for a trumped up charge of being connected with the Rye Honce Plot.

Bussell, William Clark (1844-1911), was son of Henry Russell the once popular concert singer and song composer (1813-19 x). From 1875 Mr. Clark Russell was known as one of the most popular writers of sea stories, and also wrote lives of Nelson and Collingwood.

of sea stories, and also wrote lives of Nelson and Collingwood.

Russell, Sir William Howard (1821-1907), became a journalist in Ireland while a young mar; went to London in 1842; obtained an engagement on the Times, and represented that paper as special correspondent in the Crimean War, greatly distinguishing himself by the boldness and correctness of his letters. He also served the Times in India. of his letters. He also served the Tones in India, during the Munny, in the American Civil War, as well as during the Franco-Prussian War of 1870. He was knighted in 1895, and eithed and ox. 2d the Army and Navy Gazette for a long period.

Russell of Killowen, Charles Russell, 1st Baron [1892-1900]. Was born at Newly and

Itsseall of Killiowen, Charles Russell, 1st Baron (1832-1906). Was born at Newry and trained for the law, beginning to practise as a solicitor in Belfast in 1854. Two years later he entered for the Bar, was called in 1850, and joined the Nothern Circuit. He soon distinguished himself by his ability as an advocate, and in the course of a few years aclieved a leading position. He was made Q.C. in 1872, and in 1880 entered Parliament. Was Attorney-General under Mr. Gladstone in the

administrations of 1886 and 1892. In the Parnell Commission was leading counsel for Mr. Parnell, and

Commission was leading counsel for Mr. Parnell, and was made a Lord of Appeal, and in the same year succeeded Lord Coleridge as Lord Chief Justice. Russia, Czar of. (See Micholas IL)
Rutland, John Manners, 7th Duke of (1818-1906), a great figure in Conservative politics in his day, and long known in the House of Commons as Lord John Manners until he succeeded in 1888 to the dukedom. Was a Cabinet Minister in 1892 as First Commissioner of Works, and later served two further terms in the same office, and was also Postfurther terms in the same office, and was also Post-master-General and Chancellor of the Duchy of Lancaster.

Ruysdael, Jacob, a famed Dutch landscape painter of the 17th century, who confined himself mostly to the scenes of his native land, preferring umbrageous shades and wide tree-covered expanses, which he depicted with rare fidelity. A soft melancholy gloom

is his pervading note.

Ruyter. Admiral, the Dutch admiral who in 1677 mwaded England with a fleet of Dutch war vewels, advancing up the Thames and Medway and acting fire to considerable shipping. He soon saw fit to retreat, and more serious trouble was averted.

Rymer, Thomas (area 1630-1731), a famous antiquary who for some years filled the position of Historiographer-Koyal. Ills series of Historical Treatness fill twenty volumes, and are highly prized. The British Museum possesses over fifty of Rymer's MC unbined to the prize of the British Museum possesses over fifty of Rymer's MC unbined to the prize of the prize of the British Museum possesses over fifty of Rymer's MC unbined to the prize of the prize of the prize of the British Museum possesses over fifty of Rymer's MC unbined to the prize of the MS volumes.

Sacchi, Andrea (1508-16(1), a renowned Italian painter who left behind him a number of pictures of religions, subjects which are much valued, his chefic discreve being the "St Romoald Surrounded by his Companions," now at the Vatican.

Sacheverell, Honry (1672-1724), an English clergyman who attacked the Dissenters and their Whis supporters so fercely in a serion delivered in 1700 that he was impeached before the House of Lords, and suspended from preaching for three years; while and suspended from preaching for three years; while the sermon, which was entitled "Perils from False Brethren," and had an enormous sale, was burned

by the common hangman. Later, Queen Anne pre-sented him to the Rectory of St. Andrews, Holborn Bachs, Hans (144) 4576), the German shownaker-poet of Reformation times, was an earnest worker in the Protestant cause, and wrote over 5,000 different pieces, poetry and prose, all marked by strong individuality and religious fervour. He was born

individuality and religious fervour. He was born and died at Nuremberg, where his graves to be seen.
Sackville, Charles, 6th Earl of Dorset (1627-1903), was a poet and wit who held a place of favour under the last two Stuart kings and William III. Among the numerous neat sets of verses which he wrote the best remembered is the pretty trifle, "To All You I addes Now on Land."

Sackville, Thomas, 1st Earl (1526-1608), was a poet and courture high in the good graces of Queen Elizabeth. He was a prominent contributor to 7he Marrows for Magnerates, and had a hand in the writing of "Gorboduc," the first known English tracedy in blank verse.

tragedy in blank verse. Sadi, or Saadi, the Persian poet who flourished in

Sadi, or Sadi, the Persian poet who noninshed in the 13th century, and won national fame by his poems "The Garden of Roses" and "The Orchard." St. Aldwyn, Yisoount (h. 187), better known as Sir Michael Hicks-Beach, under which name he was for a lengthened period one of the most pro-minent Conservative statesmen in the House of minent Conservative statesmen in the House of Commons, serving successively (after holding minor office) as Secretary for Ireland (twice), Colonial Secretary, Chancellor of the Exchequer (twice), and President of the Board of Trade. Opposed Mr. Chamborlain's Fiscal proposals, and founded the Unionist Free Food League. Retired from official life in 1922, and was appointed Chairman of the Royal Commission of Ecclesiastical Discipline which reported in 1926. Was "Father" of the House of Commons upon his elevation to the peerage. St. Arnaud, Marshal (1796-1854), was one of the generals who helped Louis Napoleon to carry out the cost of cleat. He had previously distinguished himself in Algeria. On the outbreak of the Crimean War he commanded the French forces. After the battle of the Alma he was incapacitated by illness, and died on the way to France.

and died on the way to France.

8t. Audress, Baron (formerly Rt. Hon. Sir A. Actand-Hood, Bt.), late chief Conservative Whip (b. 1893). Was in the army from 1875 to 1892, and served in the Egyptian campaign, 1882, as adjutant in the Grenader Guards. Governor of Victoria, 1889-91. M.F. for West Somerset, 1892-17.

8alni-Just, Autoline (1777) 1794), one of the later leaders of the French Revolution closely associated with Robespierre in the days of the Terror, and responsible for much of its cruelty. He and Robespierre met their death on the same scaffold.

8t. Flerre, Bernardin de (1737-1814) a French

St. Plerre, Bernardin de (1737-1814), a French author; the romancist who attained fame by his powerful story, Paul and Virginia,
Saint-Saens, Charles Camille (b. 1835), a distinguished Erench courses when water individuals

Saint-Saens, Charles Camille (b. 1823), a quitinguished French composer whose works include the operas of "Samson et Dellah" and "Henry VIII.," both of which have been performed in London. He has the gift of melody, added to a graceful classicality.

Saint-Simon, Claude, Comte de (1760-1825), was a French scientist and Socialist who had great influence upon the thought of his time. Saint-Simonism was embraced by many emunent me.

influence upon the thought of his time. Sant-simonism was embraced by many enument men.

Sainte-Beuve, Charles Augustin (1804-1809),
was a French critic of considerable power and
influence, whose "Causenes du Lundi" in the
Constitutionnel for several years formed a clever
review of the men, women, manners, and literature
of the time. Among his books, Altistory of French
Eastern in the Servicial Continue A Meston of Poor Poetry to the Six'centh Century, A History of Port Royal, and English Portraits are much admired.

Reintsbury, George Edward Bateman (b. 1845), Professor of Rhetoric and English Litera-ture, Edinburgh University, since 1895. Author of numerous critical works on literary subjects on which

numerous critical works on therary subjects on which he is a leviding authority. His volumes include A Short History of English Literature, Altsstery of Criticism, and Altsstery of English Proody, Bala, George Augustus (1924-1895), was one of Charles Dickens's "young men," and wrote largely and entertainingly for Household Words and All the Year Round. Was the first editor of Temple Ear, and for a lengthy period was a leader writer and special correspondent in many lands for the Paily Telegraph. Also for a number of years wrote "Echoes of the Week" for the Illustrated London News. His best book of sketches was Truce Round News. His best book of sketches was Twice Round the Clock; his best novel, Captain Dangerous.

the Clock; his best novel, Carlain Dangerous.

Baladin (circa 1137-1103) was Sultan of Egypt, a conquering general, and a deadly foe of Christianty. He swept over Syria and Macedonia, and captured Jerusalem after a great victory at Tiberias. It was against Saladin that the Third Cruside was undertaken, and after his defeat by Richard I. in 1191 his

power was shattered.

taken, and after his defeat by Richard I. in 1191 his power was shattered.

Sale, George (1680-1736), an English Orientalist, who is best known by his translation of the Koran.

Salisbury, Robert Arthur Talbot Gascoyne

Geoil, 3rd Marquis of (1830-1073), son of the and Marquis. After completing his education at Oxford, and travelling for a time at the Antipodes, he entered Parliament in 1853, being then Lord Robert Cecil. He became Lord Cranborne by the death of his elder brother in 1865, and in the following year joined Lord Derhy's Ministry as Secretary for India. He succeeded to the Marquisate in 1868, and in 1874 was once more Secretary for India. In 1878 he hecame Foreign Secretary, and attended the Berlin Congress with Lord Beaconsfield. From 1881 he led his Party in the House of Lords, and vigorously opposed the majority of Mr. Gladstone's measures; and when in 1885 the Liberals were defeated he became Prime Minister. Mr. Gladstone again held sway in the following year, but upon his being defeated on the Home Rule question, Lord Salisbury was for the

second time made Premier. In 1892 the Liberals were in power again, but in 1895 Lord Salisbury was once more Prime Minister. He continued in office until 1902, finally returning from political life after peace was proclamed in South Africa. His solid qualities made him a reliable and effective party leader. He was a thoroughly representative Englishman of the fine old type, his death being a great loss to his Party and the nation.

Salisbury, James Edward H. Gascoyne Geoil, 4th Marquis of (b. 1801), the eldest son of the Conservative Premier, whom he succeeded in 1903, and was known in the House of Commons as Viscount Cranborne, serving the office of Under-Secretary of Foreign Affairs. On becoming a peer he was in turn Lord Privy Seal and President of the Beard of Trade, and went out to the Boer War and fought with distinction. An active churchman. second time made Premier. In 1892 the Liberals

fought with distinction. An active churchman, Sallust (86-34 B.C.), the Roman historian, was in turn questor and tribune. He stood high in favour

turn questor and tribune. He stood high in favour with julius Cæsar, *ccompanied him to Afrac, and was made governor of Numidia. When he subsequently returned to Rome he built houself a palace and passed the remainder of his days in luxurious retirement. It was during this period that his instories were written—Cathina, Jugurtha, and Historiarum Libri Quinque.

Historianum Libri Quanque.

Balt, Bir Titus (1803-1896), was a Bradford woelstapler, who, in 1836, discovered some discarded bags of alpaca wool at Liverpool which had long lain unsaleable. He bought these bags for a trife, and experimenting with the fibre, produced the famous alpaca goods, and founded an enomous industry. He was made a baronet in 1866.

industry. He was made a baronet in 1860.

Salvator Rosa (1615-1/73), a great Italian painter who first attracted notice by selling pictures in the streets of Naples. Being encouraged by Lanfranco, he went from Naples to Rome, and quickly became one of the most noted artists of his time. His pic-

tures were chiefly landscapes and battle-pieces.

Sambourne, Linley (1845-1910), was trained for
the engineering profession, but took to drawing, and obtained a position on Purich. For a long time he was the second cartoonist, and on the retirement of

was the second cartoonist, and on the retirement of Sir John Teinniel became principal cartoonist.

Samuel, Rt. Hon. Herbert Lu. P.C., Mp. 105. 1870. 195tmaster-Coveral 1950-44; President of the Local Govt. Board since 1974. Has represented the Clee leand Division [N. Riding, Yorks) since 1972. Was Under-Sec. to the Home Dept., 1908-9; Chancellor of the Duchy of Lancaster, 1999-10; Chancellor of the Duchy of Lancaster, 1999-10; Sanoroft, William [1656-1693], was a native of Suffolk and become Archbishop of Cantebury. He was one of the seven bishops sent to the Tower by James II. for opposing the "Declaration of Indulgence," and fared 100 better under William and Mary, heing deprived of his prunicy for refusing to

Mary, being deprived of his primacy for refusing to take the oath of allegiance.

Sand, George (1864 1876), the leading French authoress of her time—proper name, Armandine Lucile Aurore Dupin, Buroness Dudevant—who, both as novelist and dramatist, achieved the highest both as novelet and dramatist, achieved the highest success. Her first novel, Rose et Rinauche, was written in collaboration with Jules Sandeau. This was followed by Indiana, in which she worked unaided, producing a story full of sentiment, emotion and dramatic action, and handling her theme with wonderful freshness. The story himmediately made her famous, and year after year she continued to turn out novel after novel, most of them dealing with unlappy love entanglements of a kind that the English fetter convents and done constitute but they all fiction convention did not sanction, but they were all instinct with power and vigour. She produced, among others, Velentine, Jacques, hill et Lui, Maupral, Consuelo, La Petile Fadelle, and La Meuner d'Angabault. She was unfortunate from one point of view, but fortunate from another, in her

one point of view, but fortunate from another, in her own personal relations with men of such singular power as Alfred de Musset, Chopin and Sandeau; but she was in her way a greater artist than thom all. Banderson, Baron Thomaa H. (b. 1841), was Permanent Under-Secretary of State at the Foreign Office from 1894 to 1905. He was made a K.C.B. in 1893, raised to the peerage 1905. Hon. D.C.L. Oxford, 1907.

Sandys, Edwin (1519-1588), Archbishop of York in 1576. As Vice-Chancellor of Cambridge University he retused to proclaim Queen Mary, and suffered imprisonment in the Tower in consequence, but was advanced in the church under Queen Elizabeth, and was one of the translators of the Bishop's Bible.

was one of the translators of the Bishof's Bible.

Bandys, Bir Edwin (1561-1620). English politician
and author, who wrote Europa Speculum, and
assisted the Pligrin Pathers in chartering the Mayflower. Son of the Archishop, last-named, and
brother of the poet, following.

Bandys, George (1578-1644), a religious poet whose
works attained nuch tayour in his day. His metrical
translations of the Pealms, the Book of Job, and the
Song of Solomon are instinct with poetic feeling.
He was besides a great traveller, and made valuable
contributions to early encorably and ethiologist.

Song of Solomon are instinct with poetic feeling. He was besides a great traveller, and made valuable contributions to early grography and ethnology.

Sankey, Ira Daydî (1820 1968) The celebrated American evangelist, singer, and composer, associated with Dwight I. Mondy, the revivalist (1837-1899), in mission-work in America and Great Britain for manny years.

Sankoy, Sir John, Kt. (The Hon. Mr. Justice Sankey), judge of the King's Bench Division since April 1014, (1826); educated at Lancing Coll and at Jesus Coll. Oxford, Chancellor of the Diocese of Llandiff from 1900.

Santey, Sir Charles (h. 1824), was educated for his vocal career in England and Italy, and made his first appearance in London in 1867. For many years, he figured as our principal English harmone. The jubiled of his missical life was celebrated at the Albert Hall in 1907, in which year he was kinglied.

Santos-Dumont, M. (h. 1973) in Brazili, a successful experimenter in acrial navigation, his nost notable hights have been made in Taris, and at Monte Carlo. He wisited London in 1025.

Sappho (dourished R.C. 611-252) was the famons lyric poetess of ancient Greece, whose romantic story of Unrequited Low is better known than her poetry, of which only a few samples survive.

poetry, of which only a few samples survive.

Sarasate, Pablo (1841-70-8), one of the greatest violinists of his time, was born at Pampeluma in Spela, studied in Park and first appeared in England in 1974, from which time he was a frequent

visitor to this country, and appeared in all the leading cities of Europe with great success. Zardanapalus (properly Asurbanipal) was the last 2ardenapalus (properly Asurbanipal) was the last of the great line of Assyrian monarchs. He reigned 668-666 B.C., and lived a life of luxury and licentionsess until brought face to face with revolt and disaster, when he displayed an amount of courage that he had previously been unsuspected of, and when at last he saw no possibility of standing against the besieging fotces he is said to hive gathered his household and treasures together in his palace at Nina eh, set fire to the pile and so persibed.
5ardon. Victorien (1831-308) began writing plays in 1854, but was at first unsuccessful. Later he obtuned an introduction to Mdlle. Dépazet, the famous actress, for whom he wrote some plays that

in 1854, but was at first unsuccessful. Later fie obtained an introduction to Mdlle. Déjazet, the famous actress, for whom he wrote some plays that proved splen-lid successes and placed him at the head of French dramatists. Then followed a long series of successes—'Nos Intimes," "Seraphine," Rabagus," "Divorçons," "Fédora," and so on, from triumph to triumph. Later he turned his attention to historic subjects, and in "Théodora," "Robespierre," La Tosca," "Madane San Gêne," "Robespierre," and "Dante," the last-named written specially for Sir Henry Irving. He was elected to the French Academy in 1897.

Sargant, John S. (b. 1856, at Florence). We is of American parentage and received his art education in Paris. As a portrait painter he has few equals, Was made A.R.A. In 1894 and R.A. in 1894.

Satow, Rt. Hon. Sir Ernest M. (b. 1843), has held high diplomatic posts at Tokio, Pekin, and in Morocco, and was one of the British representatives at the Hague Conference of 1907.

Saundarson, Nicholas (1682-1739), a celebrated blind mathematician, who acquired such a mastery of his study that he was elected Lucasian Professor of Mathematics, and published a treatise on Fluxions and Elements of Algebra in a vols.

Saurin, Jacquas (1677-1730), a noted Hugusnot preacher, who was minister of a London church early in the 18th century, and afterwards went to Holland and took charge of a Protestant church at The Hague. He published several volumes of sermons of a deeply devotional character.

Savage, Riohard (1669-1743), was said to be the natural son of the Countess of Macclesfield, but was brought up without knowing the secret of his birth, and when at last he discovered it his mother declined to help him. He was, however, nossessed of com-

and when at last he discovered it his mother declined to help him. He was, however, possessed of considerable ability, and for a time maintained himself by literary work, producing plays, comedies, and poems. In 1727 he was condemned to death for having killed a man in a coffee-house quarrel, but obtained a pardon and a small pension from Queen Caroline and afterwards was under the protection of Lord Tyrconnel. With that peer, however, he subsequently quarrelled, and after enduring much privation dued at last in a debtors' prison at Bristol. layonarola, Girolamo (145--1468), the great

privation duct at last in a deptors prison at Bristol.

Bavonarola, Girolamo (145-1498), the great
Florentine preacher and Reformer, who was a monk
of the Dominican order. He denounced the follies
and luxuries of his tune, especially attacking Pope
Alexander VI. He was held in great regard by
Lorenzo de' Medici, and after that noble's death
attempted to reorganise a Florentine Republic, but
the Pone dealt out suff venuezane upon hum. He attempted to reorganise a Forentine Kepudic, our the Pope dealt out swift wengeance upon him. He was excommunicated, Imprisoned, and put to a dreudful death Savonarola was one of the most learned men of his time, and his works have been the control of the contr

learned men of his time, and his works have been translated into nearly all languages. Geo ge Eliot's Romola contains a fine estimate of his che acter, and his life by Villari is a great blography.

Saxe, Count Hermann, Marshal of France (1606-1750), was one of the most prominent generals of the allied armes commanded by the Duke of Marlborough and Prince Eugene, but went to the French side after the Peace of Utrecht. Rose into high Lavour with Louis XV, who made him Ma all all the one has commanded the French

into high Livoir with Louis Av, who make man and a lat, liter on he commanded the French army in Flanders, achieving many notable victories. Sayoe, Rev. Archibald, D. D. D. 1469. Educated at Oxford, receiving the appointment of Deputy Professor of Comparative Philology in 1878. His work on the Principle of Comparative Philology is what look It was a member of the Old Testament Revision Committee, and received the appointment of Professor of Assyriology at Oxford appointment of Profess r of Assyriology at Oxford in 1837. Professor Saye's writings are marvels of profundity, and his nool; a thanst immunerable. Published The Archaology of Cuneform Inscrip-

tions in 1007.

Soaliger, Julius Casaar (1484-1558), was a cele-brated Italian physician and scholar who settled in France, and was appointed physician to the Bishop of Agen. He wrote commentaries on the dissoled authors, which were remarkable for their perspicuity and scholarly judgment. His son, Joseph Justus Scaliger (1540-1609), was also a very learned Protestant scholar, and the founder of modern

Protestant scholar, and the sounds of mountained rechronology.

Scarlatt!, Alessandro (1699-1795), a distinguished Italian composer, who was for some years Musical Director to the Court of Naples, then went to Rome, but later on returned to Naples, remaining there until his death. He composed an immense number of commencers and the subject of particular statements. until his death. He composed an immense number of operas, masses, cantitate, taadrigals, etc., and much of his music is still performed. His son, Domenico Scarlatti (roße-1757), was a fine organist and performer on the liarpsichord, and composed mimerous sonatas and tugues, including the famous "Cat's Fugue." Scarron, Paul (rőio-1666), was a clever, reckless and popular French writer, whose burlesques and comic rounances were highly esteemed. He was the husband of Madame de Maintenon, before she came under the influence of Louis XIV.

under the influence of Louis XIV.

Schaffer, Ary (1795-1858), a celebrated painter, who was born in Holland, but lived for the main portion was born in rolated, in what for the main portion of his life in Paris, and attained a great reputation for his religious pictures. His "Paolo and Francesco" is reckoned his masterpiece.

Schelling, Friedrich won (1775-1834), was Pro-

fessor of Philosophy, first at Munich and then at Berlin, and attracted much attention by the system of Idealistic Philosophy which he founded.

Schiller, J. C. Friedrich von (1750-1805), the famous German dramatst and poet. Was born at Marbach in Württomberg. Educated at the Military Academy at Stuttgart, and intended for a soldler, he evinced an irresistable desire for Interary fame, and in 1798 had his first play, "The Robbers," successfully produced at the Mannheim Theatre, to which he was subsequently amounted dynatic which he was subsequently appointed dramatic composer. He left Mannheim for Lelpsic in 1787. Latter his proceeded to Dresslen, where he completed his "Don Carlos"; and in 1780 he was at the University of Jena as Professor of Ristory. When the engaged in this capacity he wrote his History of the engaged in this capacity and made the acquaintance of the complete Goethe, at whose suggestion he removed to Weimar,

Goethe, at whose suggestion he removed to Weimar, and during the next ten years produced his greatest works—"Wallenstein," "Mary Stuart," "The Maid of Orleans," and "William Tell." He died at the early age of forty-six.

Schlegel, August Wilhelm won (1767-1845), was a fanous German critic who for a number of years held the post of Professor of History in the University of Bonn. He is best known in this country by translations of his Lectures on Dramatic Art and

by translations of his Lectures on Dramatic Art and Literature, which are remarkable for their appreciation of Shakespeare and their scholarly handling of the drama in all its leading phases. He spent many years with Madame de Stael Schlegel, Karl W. F. von (1779-1829), was the younger brother of August W. von Schlegel, and a famous critic and writer. His Lectures on the Philosophy of Life and on the Philosophy of History display great learning and critical power Schliemann, Heinrich (1822-1850), was a celebrated (serman traveller and archicologist, whose excavations at Athens and Mycenæ resulted in the discovery of a number of royal founds.

examining a trueth and saycene resulted in the discovery of a number of royal forms.

Schomberg, Friedrich von (1619-1690), a Protestant marshal of France, who, after the revocation of the Edict of Nantes, quitted France, entered the service of William III, and commanded

at the battle of the Boyne, where he was killed,

Schopenhauer, Arthur (1788-180), was a
German philosopher of a pessimistic cast of mind,
whose speculations have been much written about whose speculations have been much written about in recent years and may be almost said to have given rise to a special school of pinlesophy. His mysticism partakes somewhat of the higher Buddhism, and to a certain class of minds is undoubtedly fascinating. His chief works are The World, Considered as Will and Idea, and The Two Fundamental Provinces of behaves.

Schubert, Franz P. (1797-1828), one of the most endnent of German musical composers, whose songs and symphonies are among the most inspired of musical compositions, full of melodic beauty, and instruct with emotional power. He also wrote operas, Musses, and cantatas, all of which reached a

high level of ment.

Schumann, Robert (1810-1856), a famous German composer and musical critic, who did much to help forward the advanced school of German music. He torward the author of numerous fantasas, songs, and orchestral compositions, and attained a promuent boatton among modern composers. His wife, Clara Schumann (1810) 1856), was a noted painted and interpreter of Chopin, and also a composer of meritorious music

mentonous music.

Schuster, Sir Falix, Bt. (b. 1854), member of the Council of India since 1900, and an influential City banker. An authority on finance, alonne climbing, and music, to each of which he is deveted.

Sciplo, Emiliaaus (2007 185-129 B.C.), known as Scippo Africanus Minor. Was Ryman Consul in 147 B.C., and conducted the Siege of Carthage, ultimately capturing the city, and thereby closing the Panic Wars. He was afterwards one of the political leaders of the aristocratic section, but quarrelled with his party and was assassinated.

Sciplo, Lucius Cornelius (2017 234-183 B.C.), known as Scipio Asiaticus, was brother of the next

named, and distinguished himself by his victories in Asia, afterwards failing into disgrace for having accepted bribes from Antiochus.

Solipio, Publitus Cornelius (circa 232-183 B.C.), the greatest of the Scipios, known as Scipio Africanus the elder. He commanded the army in Spain at twenty-four, defeated the Carthaginians, both in Spain and in Africa, gaming a complete victory over Hamibul at Zami.

Hamilton at Zama.

Scott, Sir G. Gilbert (1811-1878), was one of the most eminent architects of his day, and gained special fame for his restorations of Cothic churches.

most eniment arcintects of his day, and gained special fame for his restorations of Gothic churches. He was the designer of the Albert Memorial and the Martyn Memorial at Oxford; also architect, in association with Mr. Digby Wyatt, of the Foreign Offices at Westimister. He was elected A.R.A. in 1855, and knighted after the completion of the Albert Memorial.

Soott, Rear-Admiral Sir Percy (b. 1854), the completion of the Albert Memorial.

Soott, Rear-Admiral Sir Percy (b. 1854), the gallant higher and resurrectul genius who meented the carrages which got the 47 mch guns about so readily in South Africa, and who has effected many improvements in naval gun-fire, devising the night-signalling system now in use. He has smelt a lot of powder, borne himself smartly always, and had command of the famour Terrible. Reiried 1913.

Soott, Captain Robert F. (1888-1919), commanded the National Antarctic Expedition, 1900-1914, and look charge of a similar expedition in 1910. His ship, the 1911 Aveca, lett England on 1912, 1913, the 1911 Aveca, lett England on 1912 in 1914, which quarters were established at Capt Pivans, and in the following November Scott and a select party left Hut Point for the South Pole, which they combed at m. 8 ees feature thems the

and a select party left Hut Point for the South Pole, which they teached on Jan. 18, 1972, finding there the Amundsen records. On the return journey every member of the party perished. Seaman Edgar Fyans died from concassion of the brain on Feb. 17: Capt. Oates from exposure on March 17; and on March 29 the rest of the party (Scott, Wilson and Bowers) died from starvation and exposure in a bazzary when only 11 times from One Ton Depot.

bazzary when only 11 miles from One Ton Depot.

Soott, Sir Walter (1771-1837), one of the greatest of British investists and a distinguished poet. He was educated for the Bar. His Ministrevy of the Scottish Border with published to 1822. This was followed in 18-5 by "The Lay of the Last Ministrel," in 1808 by "Marmon", "The Lady of the Lake," "Mokeby," and "The Lard of the Isless" coming afterwards in spick succession. In 1814 he published Waverley anonymously, which obtained instant success. Other stories followed, and the Waverley novels and their author, "the great Unknown," were everywhere the subject of discussion. Gry Marmering, The Antiquas v, Old Merialry, Rob Roy, and the Heart of Middolfiain were all published before the secret of their authosinp was disclosed. Soott made large sims

their authorship was disclosed. Scott made large sums of money by his writings, purchased Abbotsford, and wis in the full tide of success when the failure of Ballantyn; his publisher, saddled him with habilities to the extent of £150,000. Scott, who was then fifty-five, placed hunself in the hands of trustees, retred into private lodgings, and within the years paid to his cientur. £70,000, and before his death had sausfied all his obligations and purch sed back his observed.

estate. He was created a baroact in 1220.

Scroggs, Sir Win, the nonmous that Justice of the King's Bench under Charles H. Impeached for

one sangs near mater that es 11. Impeacled for corruption in 1626, he was deprived of office, but granted a person. He shed in 1883. Seabury, Samuel (1749-1749), was the first bishop of the American Especayal Church. He was a native of Connecticut and laid stunded medicine r Idulying. These was a small difficulties. Edmburgh. There was some difficulty about his consecration, the English bishops hesitating about performing the ceremony, but three Scottish bishops were found more compliant, and the consecration

were found more compliant, and the consecration ultimately took place at Aberdeen.

Seaman, Owen (b. 180a), a facile hymester and pretty wit, who succeeded Sir Francis Burnand in the editor-ship of Planch on that genial knight's retirement with long-service honours in 1906.

Sebastian, St. (A.D. 255-228), A Roman Christian solder, born at Narbonne, in Caul, who was one of the mattyrs who suffered death under Diocletian.

He became revered in the Church as a protector against pestilence

andon, Tha Hon. R. J. (1845-1906), born in Lancashire, emigrated to Australia in 1863 as a mechanical engineer. Was very successful in New Saddon,

Lancashire, emigrated to Australia in 1863 as a mechanical engineer. Was very successful in New Zeuland and entired the House of Representatives in 1870, becoming Premier in 1893, Sedgwick, Adam (1785-1873) was Woodwardian Professor of Geology at Cambridge from 1813, and devoted himself with great success to geological studies. His Decourse on the Studies of the University of Cambridge is ins best-known book. Seeley, Sir Robert (1894-1895), for many years Professor of History at Cambridge, was a historian of note, but acquired his chief fame as a writer by his Ecce Home and Natural Refigeon, which were

of note, but acquired his chief fame as a writer by his Ecce Homo and Natural Refigion, which were fiercely assailed by critics of the ottookox school Saely, Rt. Hon. Col. J. E. B., P.C., D.S.O., M.P. Secretary for War 1012-14. Resigned after misunderstanding as to offices, at Curragh and the Ulster question. Under-Secretary for War 1011-12, Under-Secretary for the Colones 1028-11. Served with distinction in the Boer War. M.P. for Abertermaler. Division. In Averaged Legach, and for crombie Division, Liverpool, 1900-10, and for

Selborne, Earl of (b. 1859), II gh Commissioner in South Atrica in 1905 to 1910, and had previously been Conservative Under-Secretary for the Colomes and

Conservative Under-passes and the Cosmiss and First Lord of the Admiralty.

Salby, Viscount (1935-1909) Better known formerly as Sir Wilham Court Cully, who entered Parlament in 1886 as member for Carlisle, was elected Speaker

as Sir William Contt Gully, who entered Parliament in 1886 as member for Carlisle, was elected Speaker in 1895, holding the office for ten years Belden, John (1844-1654), was a prominent lawyer, statesman, and author in the rough of Charles I. He sat in Parliament for some years, and espoused the popular cause in a dignified sort of way, neather approving of the Civil War nor the execution of Charles. He was held in great exteem for his writings, which comprised besides his celebrated Table 7alk—a work on titles of honour, a history of tithes, a treatise on the idols of the Syrians, and other volumes. In 1643 he was made Keeper of the Tower Records, and three years later Parliament granted him £5.000 for his "emiment services." Belwyn, Bishop (1800-1898) was the first Bishop of New Zealand, and ruled the see for twenty-six years. In 1897 he was appointed Bishop of Liccheld.

Emirannis, Queen of Assyria and founder of Ninevelh, foursibed about 2182 LC.

Encos. Lucius A. (crea 4 B.C.-A.D. 65), the famous Roman Philosopher who was tutor to Nero, and one of that emperor's most influential advisers.

and one of that emperor's most influential advisers Disgusted with Nero's disgraceful acts, Seneca would fain have retired into private life, but Nerodistrusted him and had him charged with conspiracy, and sentenced him to end his own life, a fiendish beliest which the philosopher courageously carried out.

Senefelder, Aloys (1772-1834), was the son of an actor at Munich, and hinself engaged in dramatic composition. Being too poor to bear the cost of having his works printed, he turned his attention to inventing lithography, the main feature of the invention being discovered by accident. The King of Bavaria granted him a pension, and the London Society of Arts awarded him their gold medal.

Society of Arts awarded him their gold medal.

Senmacharib was King of Assyria from 702 to
680 B.C. He built himself a splendid palace at
Nimereh and greatly beautified the city. According
to the Scriptural narrative, his great host of 50500
men, while on the eve of attacking Palestire, was
destroyed in a single night by direct Divine visitation.

Servetus, Michael (1512-1553) was a learned
Spanish physician and theologian, who, though an
ardent Reformer, was opposed to the doctrine of
the Trinity. His books, De Trinitatis Erroribus
and Christianisms Restituto, were denounced by
Calvin, and he was imprisoned and sentenced to
death, but escaped. Later, however, he as arrested
at the instigation of Calvin, and sent to the stake.

Sensetie, the ancient Egyptian King who—according to Greek tradition—subjugated Ethiopia, a
considerable portion of Asia, and part of Europe.

Much of his history is evidently levendary, but the

authorities agree in acclaiming him a famous con-queror. His heroic exploits were founded, no doubt, on the doeds of Rameses 11., Thothmes, and Sethos, and date back to the 14th century B.C.

Settle, Elkanah (1648-1723), a dramatist and versifier of the Reformation Period, the last to hold the office of City Poet of the Corporation of London.

He died in the Charterhouse.

Severus, Lucius S. (146-211), was Roman Emperor from 193 to his death. After many victories in the East he passed over to Britain with an army, subjugated the Calcilonians, and built the famous wall from the Solway Firth to the mouth of the

Tyne, which bears his name. He died at York.
Sevigne, Marie, Marquise de (1626 1696) a
French epistolary writer, whose famous letters to her daughter possess great charm, and throw a flood of light on the history of her time.

of light on the instory of nor time.

Seymour, Admiral Rt. Hon. Sir Edward

Hobart (b. 1840), entered the navy in 1852, saw

service in the Crimea, China, and Egypt; and row

to the rank of Vice-Admiral in 1895, and full Admiral

in 1891; Admiral of the Fleet 19-5-10. Commanded

the Alhed Expedition against the Chinese in 1800,

and one of the original members of the Order of

Shackleton, Sir Ernest (b 1874), commander of the Amrod Farthest South expedition of 2007-200, succeeded in getting within 100 miles of the South Pole, and made many important

discourses

Shadwell, Thomas (1640-1602), was Foet Laureate

Shadwell, Thomas (1642-1652), was Poet Laureate and dramatst, and wrote a number of plays. He was boated in Westminster Abbey. "The Lancashire Witches" was one of his dramas.

Shaftesbury, Anthony Rahley-Cooper, 7th Earl of (1801-1884), a distinguished philanthropist, who devoted the best part of his life to movements for the aneltoration of the condition of the poor, He identified hunself prominently with the Ten Hours Bill, the success of which owed much to his efforts. He was President of the Ragged School Union for over forty wars and in converting with citorts, He was President of the Ragged School Union for over forty years, and in connection with Reformatories, Refuges, and Christian Associations of many kinds, was an indefatigable worker. In the earlier part of his career he was a Lord of the Admiralty under Sir Kobert Peel.

Bhakeapeare, William** (1564-1616), England's greatest poet and dramatist, was born at Stratford.

Atwacheapeare, William** (1564-1616), England's greatest poet and dramatist, was born at Stratford.

on-Avon, and was the son of a tradesman of that town who must have been at one time fairly well-off, seeing that he was made an alderman, and after-wards served as High Bailiff. Later on, however, he appears to have been unfortunate and fallen into straitened circumstances. William was the eldest ne appears to nave occur amountamer and ance as strainend circumstances. William was the eldest son, and was probably educated at the Stratford Grammar School, but very little is known of his career up to his eighteenth year, when we have it on record that he married Anne Hathaway, who was the beautiful the strainer was after his marriage. record that he matrice and a familiar and a familiar eight years his senior. Five years after his marriage he went to London, and the next we hear of him is that he was connected with the Globe Theatre and appeared in sundry small parts. He first appeared before the public as a poet in 1800, with his "Venus unt ne was connected with the Globe Theatre and appeared in sundry small parts. He first appeared before the public as a poet in 1593, with his "Venus and Adonis," following this in 1594 with "The Rape of Lucrece," Shortly afterwards he was proprietor of the Globe Theatre, and also had an interest in the Blackfilars Theatre. Then he began that remarkable career of play-writing which has since been the wonder of the world. It is impossible to name the thirty-five plays that he wrote in the exact order in which they were produced, but "Love's Labour's Lost" and "The Comedy of Errois" seem to have been among the earliest, being followed by "The Two Gentlemen of Veruna," "Romeo and Juliet," "A Midsunmer Night's Dream," and others, the record being gaade up with "King Richard III.," "King Join," "The Merchant of Venice," "The Taning of the Shrew," "The Merry Wives of Windsor, "King Henry VI." (Parts I., II. and III.," "Richard II.," "Henry VI." (Parts I., In and III.," "Henry VI."," "Much Ado About Nothing," "As You Like It," "Hamlet," "Julius Caesar," "Coriolanis." "Twelfth Night," "Macboth," "Measure

for "Measure," "Othello," "All's Well that Ends Well," "Antony and Cleopatra," "Troulus and Cressida," "King Lear," "Timon of Athens," "Cymbeline," "Pericles," and "Titus Andronicus," though as to the last two he could only have been part author. It was evident that his plays were remunerative, inasimuch as in a few years he was able to purchase property at Stratford, and when he retired from his profession (about 1610 or 1612) he returned to his native town to live in a house which he had honself built, and was to all intents and purposes a man of substance He died at Stratford at the age of fifty-two, and was builed in Stratford at Church. In addition to his plays he wrote a volume of somets, which in the man are worthy of his genus.

Sharp, Granville (1735-1813), slavery abolitionist and founder of the colony of Sierra Leone.
Sharp, James (168-1959), Scottish ecclesiastic; Archbishop of St. Andrews; murdered by Covenanters for treachery to the Resolutionist can-

Sharp, John (1644-1714), chaplam to Charles II. and James II.; Dean of Canterbury, and later Archbishop of York.

Shaw, George Bernard (b. 1856, in Dublin). Went to London in 1876 and gradually worked his way as a journalist and Fabian Socialist writer and speaker, and by a bold unconventionality came to be much talked about. He has written a mimber of plays, many of which are tantalisingly brilliant and effective in parts, but just as tantah ingly inefficient as dramatic entirches. He was musical critic for the Star for a time, also for the IForla. He discussed Star for a time, also for the World. He discussed the drain in the Saturday Renew for a few years. His best plays are "Man and Superman," "Anthrocles and the Loton" [1914], and "Pyginalion" [1914]. Published two volumes of Drimais Opinions in 1907. Shearman, Blr Bontague, Rt. [Mr. Justice Bhearman, appointed Judge of the King's Bench Division, April, 1914 [6 1857]. Unit at Merchant Taylors' School, and at St. John's Coll. (Nifer). Sheffield, Bishop of See Burrows, Rt. Rev. L. H.

Shell, Richard Lalor (1797-1851), the famed Irish orator of the days of the Catholic I manicipation be was also a diamatry of ability, and occupied the effices of Vice-President of the Board of Trade, Judge-Advocate General, Master of the Mint, and British Minister at Florence.

Shelburne, Earl of (1715-1868), w.s. Prime Minister in 1782, and it fell to limi to acknowledge the inde-pendence of the United States. He administration was short-in ed, and he passed into retirement, being

was short-in ed, and he passed into retirement, being reated Marquis of Landdowne.

Shelley, Percy Bysahe (1992-1824), one of the most building poetic groupes of the 19th century,

I for the daring and unorthodox opinious which he held. His "Queen Mab" (written which he led. His "Queen Mab" (written which he was mineteen), his "Alastor," "The Revolt of Islam," "The Witto of Atlas," and "Adomass" all breather the true spirit of poetry, securing him a place in the first rank of British poets. He sliwed finedramatic grits in the "Cenci" and "Prometheus the program of the property of the latter reading subdimity in the latter. Unbound," almost reaching sublimity in the latter masterpiece. It is "Adonais" was a splendid tribute to the genus of Kents. His first wife, when he married while very young, committed such the first first wife, when he married while very young, committed such the afterwards married Many Wolfsone Laft Godwin, and formed other attachments of a complicating nature. Was always at war with his family, and nature,

nature. Was niways at war with his family, and finally, after spending some time with Byron and Leigh Hunt and other friends in various parts of stally, was drowned in the Gulf of Spezia by the capisizing of a boat in a storm.

Shenstone, William (1914-1963), au English poet of country life, whose poems were marked by a graceful simplicity of style and homeliness of thought which made them great favourites. Its "Schoolmistress" is his principal poem. He lived at a quiet right eat called "Leavones," near Halesowen.

Sherbrooke, Lord (Robert Lowe) (1811-1892). After being educated at Wincluster and Oxford and becoming fellow and tutor of University College, he went to Australia, achieved considerable

he went to Australia, achieved considerable success at the Sydney bur and was elected to the

Colonial Parliament, Returning to England, he entered the House of Commons as a Liberal and entered the House of Commons as a Liberal and held various offices under Mr. Gladstone, being in turn Vice-President of the Education Department, Chancellor of the Exchequer, and Home Secretary. He was made a peer in 1880.

Sharidan, Richard Brinaley (1751—1816), the greatest British come draundist of modern times, Was born in Dublin, and partly educated at Harrow, Shawing considerable current.

Was born in Dublin, and parily educated at Harrow, Showing considerable capacity for dramatic consolerable capacity for dramatic composition, he obtained an introduction to the Covent Carden management, and it was at the Covent Carden theatre in 1775 that his first comedy, "The Rivals," was produced, with such a gratifying result that Carrick, who was then at Drury Lane, opened up negotiations with the dramatist, which ended in Shoridan beccoming part (and ultimately sole) proprietor of a unity Lane. The "Duenna" a musical comedy, via produced in 1775, and ran through the winter. From 1777 Sheridan managed Drury Lane, opening with an adaptation of Vanbrugh's "Relapse." This was followed by the production of the greatest of his comedes, "The School for Scandal," which had a wonderful success. In 1779 "The Chile" was given, and after that Sheridan words no more plays until 1786, when "Pizarro" was produced. In the meantime he had gained a high reputation up another tybere. In had gained a high reputation in another sphere. In 1780 he obtained a seat in Parhament and although he only spoke on certain set occasions, he acquired a reputation for oratory which stood him in very good stead, and he filled one or two minor Ministerial offices, remaining in Parhament until 1812. He only lived four years after, his last days being clouded by ill health and pecuniary difficulties.

by li-nearth and pecuniary directities.

Shirley, James (1595-1666), was an eminent distantist and poet, induced with the Elizabethan traditions. For a period of nearly twenty years he held the attention of the public with a series of plays of singular ment, the principal of which were "Love Tricks," "The Maid's Kevenge," "The Gamester," and "The Invior." The shock of the Great Fire caused the death of hunself and his wife.

caused the death of humself and his wife.

Shore, Jame (1400-1524), was one of the beauties of her finite, and the wife of a London goldsmith. Fdward IV, was attracted by her personal attractions and wit, and she became his mistress. Later she was at the keeping of Lond Hastings, and is chiefly it minhered by being compelled to do primite at 5t Poul's. There is a tradition that she pershed in a dutch in East London, and that the circumstance gave rise to the local name Shoredisch.

Shorter, Clement Hart 1851, an active editor and abbeyond.

able water, whose class pornabile successes have been wen in the field of the trated weekles | Fid ted Line ried London News from 1891 to 1900; edited The Shere from 1803 to 1900; founded The Sphere and The Patter in 1910, and has saice edited those papers continuously. Author of works on the Brontes, and a Late of George Borrow. A tounder of the

Omar Khay yan Club.

Shorthouse, J. H. (1834-1978), was a Brit ingham manufacturer who, tuning his leisure to littrary account, produced a remrikable historical novel, yohn Inglesant, which evidenced a sincere spirituality and a profound appreciation of the problems of life, and is a work that will live. He also wrote other novels, but failed in them to reach the high standard of his masterpiece.

of his masterpiece.

Shovel, Sir Cloudesley (169-1797), a celebrated British admiral who originally served before the most, but greatly distinguished hunself at the Battle of Bantry Bay in 1689, and commanded at the Siege of Toution in 1797, being lost with his slip off the Scilly Isles on his return from that expedition.

Siddons, Sarah (1795-1891), was the daughter of Roper Kemble, a theatrical manager, and appeared on the stage while a child. At eighteen she married an actor named William Siddons, of no particular merit, but to whom site was suncerely attached. She was then playing leading parts, and showed such remarkable ingenuity that her fame soon reached London, and Carrick engaged her for Drury Lane at £5 a week, but her success was not

such as to warrant a continuation of the engagement. She returned to the provinces for further experience, and in 1782 was again engaged for Drury Lane, after an absence of eight years, and made one of the most successful triumphs in the annals of the stage. From that time she was acknowledged to be the greatest actress of her time. She left the stage in 1812, and lived in retirement for twenty years. A statue of her by Chantrey is in Westminster Abbey.

**Sidewick, Henry (1838-700), Professor of Mental and Moral Science at Cambridge, was a native of Skipton, Yorkshire, and besides being an eminent educationist in the broader sense, devoted himself with special success to the cause of woners education, Newnham and Girton being largely the outcome of his efforts. She returned to the provinces for further experience

of his efforts.

Bidgwick, Mrs. Henry (b. 1845), widow of the late Prof. Henry Sidgwick, and sister of the Rt. Hon. A. J. Balfour. Appointed Principal of Newnliam

lidgwick, mer. Henry 10. 1925, 1925.

late Prof. Henry Sidgwick, and sister of the Rt. Hon.

A. J. Balfour. Appointed Principal of Newnlam College, Cambridge, in 1892. Is a poncer of the higher education, and a brilliant woman.

Bidney, or Sydney, Algernon (1622-1683), was a son of the second Earl of Leicester, and in the Civil War won some distinction under Cromwell. Disapproving of the Protectorate, he took no active part in the work of Cromwell's Government, and after the Restoration lived abroad for some years. In 1677 he was pardoned for all offences and permitted to return to England, but in 1693 was charged with being concerned in the Rye House Plot, sentenced to death by Jeffreys on notorously insufficient evidence, and executed.

Bidney, Sir Philip (1524-1585), was one of Queen Elizabeth's favourites, and a man of singular ability and bravery. While living in temporary retrement he composed his famous "Arradia," but did not allow it to be published in his lifetime. He did not lack for literary fame, however, his Apology for

lack for literary fame, however, lis Apology for Poetry and Defence of Poetry, as well as numerous miscellaneous pieces, all distinguished for their beauty of expression and tender sentiment, having

beauty of expression and tender sentiment, having won much favour, especially in the circle of the Court. In 1586 he was given a command in the Netherlands, and was killed at Zittphen

Blemens, Bir William (183-1833), a German-born scientist and inventor, distinguished in physics, and particularly in electricity and heat. Was elected to the Royal Society, and served as I'resident of the British Association.

British Association.

Sieyės. Comte Emanuel J., commonly called Abbé Sieyės (1748-1896), was a prominent figure in the French Revolution, taking an active part in shaping: the Republic, and voting for the death of the King. Later he was Ambassador to Berlin, was made a member of the Directory, was Consul under Napoleon, and on the latter obtaining supreme power, was ennobled and retired on a pension.

power, was emioused and retured on a pension. **Sigiamund, Emperor** (1301-1437), Emperor of the Holy Roman Empire (last of the House of Luxenbourg). Successively Margrave of Brandenhurg, King of Bohema, and Emperor of Germany; infamous for allowing John Huss to be burned at the stake after giving him a safe conduct to the Council

of Constance.

Sigourney, Mrs. Lydia H. (1791-1865), was an American poetess who, in addition to writing short poems that were highly popular, was the author of a volume of *Pleasant Memories of Pleasant Lands*, describing in an appreciative way her experiences

destroining in an appreciative way in experience during a tour of Europe in 1860.

Silius Kialious, Castus (flourished in the zst century of the Christian era), a Roman poet, orator, and statesman. Wrote a long listorical poem (in sixteen books) on the second Punic war.

sixteen books) on the second Punic war.

Simeon, Charles (1759-1836), a popular Evangelical
preacher and Fellow of King's College, and from
1783 to his death vicar of Trinity, Cambridge. His
sermons had an immense sale. He was one of the
founders of the Church Missionary Society.

Simeon Stylites, a Syrian monk of the 5th century, who is said to have passed thurty years of his
life on a pillar near Antioch, from which he preached
daily to great crowds. Tennyson wrote a poem on
the subject.

Simon, Sir John A., K.C., M.P. (b. 1873), repre-sented the Walthamstow Division from 1006; Solicitor-General 1010-13; Attorney-General since Oct., 1913

A cultured and effective speaker, who has achieved a high reputation both at the Bar and in Parliament.

Simon, Jules (124-1896), the eminent French philosopher and statesman. His refusal to take the oath of allegiance to Louis Nappleon debarred him outh of allegiance to Louis Napoleon debarred him from a public career while the Empire lasted. By his pen, however, he succeeded in keeping his opinious before the public, and was elected to the Legislature in 1863. When he saw his country drifting into war in 1870, he raised his voice against it, but ineffectually. After the war he became Minister of Public Education; in 1875 was made a hie senator and was elected to the Academy; in 1876-1877 was Premier, after which he did not hold office again. His writings include a history of the office again. His writings include a history of the Thiers Government, Duty, Natural Religion, and Liberty of Conscience.

Simpson, Sir James Young (1811-1870), the discoverer of the utility of chloroform as an anæsthetic, was a native of Scotland, and one of the most thetic, was a native of sections, and one of the national accomplished experimental surgeons of the 19th century. He was Professor of Medicine and Midwifery in the University of Edinburgh from 1840, and after a long series of experiments was able in 1847 to explain and introduce his new anaesthetic agent. He also introduced remarkable improvements in gynæ-

cology. Was made a baronet in 1866.

Sims, G. R. (b. 1847), one of the most active of hung journalists and authors. As "Dage net" of the Refere, he skuns lightly and pleasantly ever the surface of current events from week to week; he writes short stories and long stories and sketches and poems in papers and magazines with facility and success. He is a dramatist with many successes to his credit—"Lights of London," "Romany Rye," "In the Ranks," and so on; and is about as all-round a ready-writer as we possess

Bismondi, Leonard de (1773-1842), a Swiss historian, was one of the most industrious writers of his tune, and gained a high reputation. He

his tune, and gamed a high reputation. He History of the Hatan Republics, a History of France, and of The Literature of Southern Europe. Skeat, Prof. Walter William (1835-1012), an enument philologist and scholar, and founder of the English Dialect Society. Appointed Profe or of Anglo-Saxon at Cambridge in 1878, and was the author of multitudinous works dealing with early English literature, poetry, history and biography. He also acmeved early distinction as a mathematican; and published The Proverts of Alfred in 1971.

phubished The Protector of Afred in 1907.

Skelton, John (1400-1526), was a lively satirist with
the courage of his convictions, fearless in denunciation, and as coarse as he was prejudiced. Was
tutor to Henry VIII., and for the last twenty-five
years of his life was rector of Dass. He wrote "Why
Came ye not to Courte!" and "Colin Clout," a sajincal poem against ecclesiastical almses, which incensed Wolsey, and led to the poet's downfall.

wossey, and not to the poets downfall. Skobeleff. Michael (1845; 1889.) a Russian general and statesman who served his country with brilliance in expeditions to Khiva and Khokand, and during the war with Turkey in 1897-1898. As commander-in-chief took Geok-Tepe and conquered the Turkoman, in 1881.

Turkomans in 1881.

Joane, Sir Hans (1660-1753), was born in county Down, Ireland, but settled in London, and became famed as a physician and naturalist. For some years he held the office of President of the Royal Colege. of Physicians, and was elected President of the Royal of Physicians, and was elected President of the Royal Society in succession to Sir Isanc Newton. He was created a baronet in 1716. His library of 90,000 vols, and treasures in natural history and MSS, worth from £50,000 to £80,000, were offered by his will to, and bought by, the nation for £20,000, and with that nucleus the Biltish Museum was founded.

nucleus the British Museum was rounded.

Brnark, Christopher (1722-1771), was an English poet, more noted for his translation of Horace than for his own poems, Johnson, Carrick, and Goldsmith, however, gave him their friendship, and he might have achieved a full success but for his reckless habits, which brought him to poverty and mental

incapacity. His "Song to David," written in a sane interval, is a vigorous poem

#meaton. John (1724-1702), was the son of a Leeds
lawyer, and was intended for his father's profession,
but showing a strong inclination to mechanical
mustis, he was placed with a London mathematical
fastrument maker, and in time set up in that line of
business for himself. In 1753, after a course of
foreign travel, he submitted plans for rebuilding
Eddystone Lighthouse, which had been burned
down, and his proposals were accepted. The result
was the soundest and best lighthouse that the world was the soundest and best lighthouse that the world had seen up to that time. It made him famous, and he subsequently constructed many important works in connection with harbours and canals. He was also the inventor of an improved blowing apparatus for iron-smelting.

for iron-smelting.

Smadley, Frank E. (1818-1864), a novelist of rote in his day, and sometime editor of Sharpe's London Magazine. His Frank Fairley, Lewis Armedel, and Harry Coverdal's Courtship were among his most popular stories, some of which were illustrated by Cruikshank and "Pluz."

were illustrated by Cruikshank and "Pitz." Smiles, Dr. Samuel (1812-1904), was in early life a medical practitioner, and subsequently editor of the Lete's Times. Later on activeved wide popularity by his Self-Help, a book that has had an enormous sale. His Lives of the Engineers formed his most solid contribution to hierature

his most solid contribution to literature

Smith, Adam (1723-1700), the father of the science
of political economy. Was born at Kirkcaldy, educated at Glasgow and Oxford, and m 1752 was
appointed Professor of Logic at Glasgow, and in 1752
Professor of Moral Philosophy. It was in 1750 that
he first attracted notice as an author by the publication of his Theory of Moral Sentiments. In 1776
hi, remarkable book The Weath of Nations was
published, which immediately obtained the admiration of the leading history men and statesume of the tion of the leading literary men and statesmen of the day, and secured him the friendship of Gibbon, Hume, Burke, Reynolds, and Dugald Stewart. Smith was made a Commit-sioner of Custons in

styrå.

Smith, Alexander (1830-1867), a Scottish writer of great promise. In 1833 he attracted much notice by a poem, "A Life Draina." He was at the time working in a Glasgow factory. The position of Secretary of the University of Edimburgh was given to him in 1854 and he devoted his lessure wholly to hiterary, pursuits, producing in succession "City Prems," "Edwin of Detra" and other poems, and Poems, "Edwin of Deira," and other poems, and also winning much success as a prose writer, his novel Alfred Hagart's Household and his Dream-

novel Alfred Hagar's Household and his Dream-thory being works of sterling mert.

Smith, Rt. Hon. F. E., P.C., K.C., M.P. (b. 1872), one of the most prominent of the younger members of the Unionst party, a slashing speaker, and decidedly a man with a career before him both as barrister and politician. M.P. for Walton Division

cidedly a man with a career before min toom, as barrister and politicatan. M.P. for Walton Division of Liverpool since 1906.

Mith, George (1820-1876), a successful student of Assyrian autiquities, whose excavations and researches were fruitful of many important discoveries. For some years he held an appointment in the Antiquities Department of the British Museum.

Mith, Goldwin (1823-1970), Instorna and educationist. Born at Reading, he war educated at Fiton and Oxford, and interested himself conspicuously in educational reforms. From 1898 to 1856 he was Professor of Modern History at Oxford, and during that time took a prominent part in politics as an independent Liberal. In 1808 he settled in the United States, accepting the Professorship of English and Constitutional History at Cornell University, In 1897 he removed to Canada, becoming a member of the Senate of Toronto University. Among his works may be mentioned A Political History of the United Stragdom, Etsays on the Destributions of the Day, and Guesses at the Raddle Oxidiations.

Mississes and Horace, made a name for themselves by producing their "Rejected Addresses," in 1812, comprising a series of burlesques in which the varied styles of the eminent poets of the

day are happily hit off. They also wrote numerous works apart, Horace being auccessful as a novelist, and James continuing to write poetic pleces. James, who died in 1830, was Solictor to the Boerd of Ordnance. Horace was a stockbroker, and died at Tumbridge Wells in 1840.

Maith, Captain John (1380-1631), the noted seafers and adventure who in 1609 was the leading spirit of an expedition to Virginia, and founded Jamestown. His autobiographical writings describe a marvellous career of fighting on land and sea, of piratical exploits and sufferings in slavery, and finally his being saved from the treachery of Red Indians by Pocahontas (p.2.), and his promotion to the governorship of the colony.

Maith, Joseph (1862-1844), the founder of Mormonism, was the son of an American farmer. He claimed to be the medium of Divine communications, including The Book of Mormon, which became the Bible of the sect established by Smith in Utah, and included polygamy as an article of faith.

Smith, Sir Bidney (1704-1840), was a noted British admiral, who by his defence of St. Jean d'Acre, in 1790, greatly distinguished himself as a commauder.

Smith, Sydnay (1771-1843), was for many years a canno of the Anglican Clurch, first of Britstol and then of St. Paul's, and enjoyed a great reputation as a wit and writer. Before nugrating to England and

Billin, Bydiney (1771-1845), was nor many years a canon of the Anglican Church, first of Bilstol and then of St. Faul's, and enjoyed a great reputation as a wit and writer. Before nugrating to England and entering the Church he hved in Edinburgh, and in association with Jeffrey and Brougham established the Leanburgh Review, which he edited for a time. His writings were for the most part on religious and political subjects, but he revealed such a fund of humour and genially that in spite of the controversial nature of his work it was immensely popular. His "Peter Hymley" letters, in support of Catholic Rimancipation, were especially successful efforts. He was twenty years parish priest at Foston, on the Yorkshire Wolds, before receiving preferment to a prebend at Bristol. His life and letters were published by his daughter, Lady Holland.

Bublished the first geological map of England and Wales and later issued a more detailed series of geological maps of Paglish, contines. He was styled the

maps of Finglish counties. He was styled the "Father of English Geology," and was granted a

"Father of English Geology, pension of £100 ayes. The Father of £100 ayes. The February (1805-1801), Smith, Rt. Hon. William Henry (1805-1801), a newspaper and book agent ma colossal way of busines who became prominent in British politics on the Conservative side and sustained high Ministerial conservations. rank with great credit and esteem. Representing first Westminster and then the borough of the Strand inst Westminster and then the borough of the Strand in Parliament, he became successively First Lord of the Administry, War Secretary (twice), Secretary for Ireland, First Lord of the Treasury, and Leader of his Party in the House of Commons; and war Lord Warden of the Comple Ports when he died at Walmer Castle. His widow, who died in 1973, as created Visionalties Hombledon in her own them.

creaces visionantes framinedon in nel own right, with remainder to their son, the Hon William Frederick Denvers Smith, now Viscount Hambleton. Brith, W. Robertson (1830-1849), 7a distinguished Scottish theological scholar and Orientalist; appointed Hebrew Professor in the Free Church College at Aberdeen in 1879. His Biblical criticism. led to charges of heresy, which, though unsuccessful, caused his removal from the charat Aberdeen by the Assembly. Subsequently he was concerned with the editorship of the Fncyclopadin Bruannica, and

the editorship of the Fincyclopeda: Britannica, and held the Professorship of Arabus at Canbridge University 1889-1894. He published a number of erudite works vicaling with Old Testament themes Smollett, Tobias [1721-1731], a famous English novelest and humorist, whose Rodernic Random, Pergyrne Pickle, Count Fathom, and Himsphey Clinker, abound in finn and frolic and genial characterisation, while their pictures of sea life are inmittable. If is novels rank with these of Fielding's, contain much that is coarse.

Snyders, Frans, or Franz (1797-167), a great Flemsh animal painter, who was associated with Rubens, Jordaens, and other masters, putting in the

natural history subjects to their pictures. He was also an adept at flower and fruit painting, and skilful in landscape work. He died at Antwerp.

somin in indusciple work. The cited at Antwerp.

Soame, Bir John (1753-1837), was an eminent architect who designed numerous public buildings in London and other places, and was Professor of Architecture at the Royal Academy. By his will he left his museum, library, pictures, etc., for the use of the public, and the house in which he lived at Lincoln's Inn Fields still constitutes the Sir John

Lincoln's Iun Fields still constitutes the Sir John Soane Museum.

8ohleaki, John (1624-1666), King of Poland from 1674, and heroic defender of his country from Cossacks, Tartars, and Turks.

1011us, Lealius (1595-1569), an Italian Protestrat thinker and anti-Trinitarum, and founder with his nephew, Faustus Socinus (153-1604), of the Socinian system of theology, which taught that salvation consisted in the acceptation of Christ's teaching, and

making His example the practical rule of life.

Bocrates (469-399 B.C.), the distinguished Greek philosopher. Was the sou of a sculptor, and for some time followed that calling himself; but, having some time followed that calling himself; but, having other ambitions, joined the army, and was present at the battle of Potidaea, and also at the battle of Delium, saving the life of Alcibades in the first, and of Xenophon in the second. Returning to Athens he devoted himself to study and began to cahort the people on public questions and the conduct of life. In 406 BC lie was made one of the Senate of Five Hundred, and had other honours accorded him, continuing his teaching alternately with his public duties. Not long afterwards Anylus charged him with impiety and he was found guilty and sentenced to death. When the fatal day came he calmly drank the poison which ternimated his career.

the poison with terminated in Gareer.

800mon, Rt. Hon. Sir Richard (1850-1973), was legal adviser to the Transvaal Administration and to Lord Kitchener in 1907-1902; Afterney-General of the Transvaal 1902-7; Agent-General in London for the Transvaal 1902-7; Agent-General in London for the Transvaal 1907-10; and High Commissioner for the Union of S. Africa from 1910

to his death.

Bolon (638-558 B.C.), was one of the Seven Sages of Boion (636-538 B.C.), was one of the Seven Sages of Greece, and became an eninent legislator, after having made a reputation as a poet. Being appointed archon in 594, he began the introduction of a series of reforms which greatly improved the condition of the Athemans. Solon's Laws were so highly esteemed that they were adopted by the Romans in their Twelve Tables.

Solyman (140-1566), the celebrated Ottoman Sultan known as "the Magnificent," who won fame as a conqueror, law-giver, administrator, and patron of learning.

Somerset, Duke of (1500-1552), was Protector of England in the early part of the reign of Edward VI., and was vigorous of rule, greatly aking the work of the Reformation. After a time he developed an arrogance that was strongly resisted and was deposed from power, ultimately being tried for seleony and executed.

Somerville, Mary (1780-1872), the daughter of Admiral Sir William Fairfax, and an eminent writer on scientific subjects, of which she had a clear and extensive knowledge, together with a capacity for on scienting suspects, of which she did a Clear and extensive knowledge, together with a capacity for presenting them in an attractive and lucid form. She was granted a pension of £500 a year in 1855. Her principal books are The Mechanism of the Heavens, Physical Geography, and McIesular and Microscopic Science. Her Personal Recollections, a fascinating work, appeared aft-her death. Sophocles (495-406 B.C.), the famous Athenian dramatist, who enjoyed the highest popularity at Athens, and in a contest with Aschylus was crowned the victor. Of the too odd plays of Sophocles only seven have survived: "Antigone," Electra," "Gidipus," "Ajax," "Trachinia," "Philoctetes," and "Gidipus at Colonus." "Soults, "Earshall Micolas Jean's ("Fop.1851), was one of Napoleon's favourice and most capab.e generals, distinguishing himself in the Swiss and Italian campaigns, and also in the Peninsular War, where he was Wellington's bravest opponent. After

Waterloo he went into exile, but was allowed to return to France in 1819. His son, Napoleon Hector Soult (1801-1819) achieved some fame as a politician and diplomatist, and represented France at the Court of Berlin in 1884.

Southcott, Joanna (1750-1814), a fanatic who proclaimed herself prophetess and the mother of the promised second Messiah, whom she announced would be born on the 19th October, 1814. Thousands of ignorant people believed in her, but on the 19th of the month she died of drupsy.

Southey, Roberts (1774-1813), the son of a draper, was educated at Westiminster and at Oxford. Devoting hunself to hterature, he produced in rapid succession a number of poens, plays and romances of varying merit. In 1823 he went to live at Greta Hall, near Keswick, where he resided until his death. A Civil List pension of £160 a year was granted him in 1807, and in 1813 he was made Poet Laureate. In poetry he was overshadowed by the greater genus of Byron and Shelley, but in prose he was eminently successful, his Life of Nelson, his Nottor, Commonfiate Bock, and other works beang as strong and vigorous as his verse was tame. as strong and vigorous as his verse was tame.

Southwell, Robert (150-150), a famous Jesult and religious poet of Elizabethan times, who after serving as chapitan to several noble families in England was denounced by his Protestant enemies, condemned, and executed at Tyburn.

Beattacus was a Tiracian who became a Roman slave and gladuator in Capua, and headed an insurer toon in Italy in 73 B.C. The slaves he raised and their following routed several Roman armies, but he was eventually defeated by Crassus on the Silarus in 71 B.C and slam in the battle.

Speke, Capt. J. H. 1897-1864), was the discoverer, along with Captain Grant, of the Kagera, the mein source of the White Nile, in 1862. In 1856 the discovered Lake Tanganyika, and in 1862 Lake Victoria Nyanza. His Journal of the Discovery of the Source of the Aire described his experiences. He was accidentally Itilied by the discharge of his gun near accidentally killed by the discharge of his gun near

Spencer, 5th Earl (1834-1910), a very popular Liberal peer, who held office as First Lord of the Admiralty, and President of the Council on two occasions, besides serving as Viceroy in Ireland. He was once a mighty hunter, and his ample beard once of Titian int-gamed him the respectful sobriquet of the "Red Earl"

Soonquet of the Ret Hon, Charles Robert Spencer, P.C., G.C.V.O. (b. 1857). Lord Chambertain 1905-1912; succeeded the 5th earl, his half-brother, in 1910. Had previously been raised to the peerage as Lord Althorp. Was M.P. 1850-95 and

1900-5

Spencer, Herbert (1820-1903), was the son of a Derby schoolmaster. For some time followed the Derby schoolmaster. For some time followed the profession of civil engineer, but ultimately applied immself entirely to literary pursuits. His first book was published in 1851, under the title of Social Statics, when he was filting the position of sub-editor of the Economist. In 1853 his Principles of Psychology appeared, in which he scenns to have anticipated Darwin's theory of Evolution. The System of Sunthers Psychology heads in Special Statics. Synthetic Philosophy began to appear in 1860, and

Systems of Evolution. The System of Systems of Philosophy began to appear in 1866, and the last of its ten volumes way issued in 1866. Spenser, Edmund (1555-159), was born in London, educated at Cambridge, and early attracted notice by his poetic effusion. After the publication of his "Shepherd's Calendar," he was made known to Queen Elizabeth, and in 520 received the appointment of Secretary to the Lord Deputy of Ireland, and in the division of confiscated lands that afterwards took place, Spenser received Kilcolman Castle and 2,000 acres of land. Here he remained for some eighteen years, and wrote his "Faerle Queen." In 1898 a repellion broke out, and Spenser's castle was burned to the ground. He then returned to London, and there died.

Spinoza, Earuch (1623-1677), the greatest modern pantheist, was born in Amsterdam of a Jewish family, but, having expounded philosophical doctrines antagonistic to Judaism, was excommunicated by the

rabbis as a heretic. In 1663 he published his era-marking work on the Cartesian philosophy, from which he widely differed, and set forth a system of Pantheism which makes God the cause and substance

which he wide value etc. and set often a system of the universe, abolishes free-will, and establishes the necessity of the Divine nature. His most important treatise, the Ethici, was not published until after his death. He died at The Hague.

Bpohr, Ludwrig (1781-189), a Linnous German violinist and composer. From 1823 to 1857 he was Capelmeister to the Duke of Hesse-Cassel, and during that period gave to the world numerous compositions of high ment, including a number of oratorios, the most renowned of which were "The Last Judgment," "Calvary," and "The Fall of Babylon," several operas, and some of the finest rollin music that has ever been written.

Sprigg, Rt. Hon. Sir J. Gordon (1830-1913), went from Ipswich to Cape Colony in 1858, eleven years later was elected to the Cape Parlament, and was Prime Minister 1878-1881, and again 1886-1890, 1850-1896, and 1900-1904.

was Prime Minister 1898-1881, and again 1886-1890, 1890-1896, and 1900-1904.

Spanysoon, Rev. C. M. (1834-1896), was horn at Kelvedon in Essex, and white but a child evinced preaching gifts. In 1852 he became pastor of the Baptist Church at Waterbeach, and held the congregation spellbound by the originality of his sermons. Soon afterwards he was in London, taking charge of the New Park Street Chapel, which from being a place of empty pews was quickly filled to overflowing. The fame of the young minister spread far and wide. He preached at Exeter Hall, at the Sirrey Music Hall, at the Crystal Palace, and was able to fill the available space everywhere. The Metropolitan Tahennacle was opened in 1861, and here he continued his wonderfully successful ministry for thirty years. for thirty years.

Stael, Madame de (1766-1817), the daughter of Necker, the famous Finance Minister under Louis XVI., was married to Baron de Stael (Swedish Minister) at twenty. She was a brilliant woman, deeply imbued with philosophical sentunents. Two years after her marinage she made a considerable impression by her Letters on Rousseau, and was

impression by her Letters on Kousseau, and was regarded as in sympathy with the Revolution. Later on, however, she was in disfavour, first with the Revolutionary leaders, and then with Napoleon, and was in turn exiled by both. She made good use of her exile by writing Corisus and other able works.

Stainer, Bir John (1840-1901), an English organist and composer of sacred music. Organist, 1863-1879, at Oxford University, and from that time to 1888 at St. Paul's Cathedral, when he resigned through failling sight, and became Professor of Music for the next ten years at Oxford. He was the composer of a number of cantatas and anthems, the author of a treatise on harmony, and co-editor of a valuable dictionary of musical terms.

Standtah, Milles (1884-1656), was a native of

treates on harmony, and co-editor of a valuable dictionary of musical terms.

Standish, Miles (1524-1556), was a native of Lancashre and one of a land who crossed to America'in the MayNower and founded the English settlement in New England. He was a brave, resourceful man, who was especially serviceable unwarding off the attacks of the Induans.

Stanfield, Clarkson (1794-1877), the famous inguish panner, who excelled in sea pictures, and was the panner of a noted picture of the death of Nelson, amongst other important works. Was elected R.A. in 1835. In the early part of his career in London he was seen-t-minter at Drury Lane.

Stanford, Sir C. Villiers (h. 1893), Professor of Composition and Orchestral Phyling in the Royal College of Music. An organist and conductor of remarkable ability, and a composer of much fine instrumental, choral, operatic, and other music. Has conducted the Loeds Musical Festival since 1901.

rgor.

tanhope, Lady Hester (1776-1839), daughter of the 3rd Earl Stanhope, and niece of William Pitt, and for many years his private secretary. Her Memotra, published subsequently to her demise, were deeply interesting. For the last three decades of her life she resided at a satrapy established by her

on Mount Lebanon, and exercised considerable influence for a while over Syrian affairs. Stanley, Arthur Penrhym, Dean (1873-1881). Was for some years settled at Carford, and made a high reputation as a tutor: in 1844 scored a notable literary success with his Life of Dr. Arnseld, whose pupil he had been. Being in 110ly Orders he was made Select Freacher, and a volume of his sermons, printed in 1894, proved him to be no mean theologian. He published numerous works between that tune and 1864, when he accompanied the late King (then Prince of Wales) in a four to Egy pt and the Holy Land. The next year he was made Dean of Westminster, He died in 1881, and is buried in the Abbey of which he wrote the Historical Memorials.

Abbey of which he wrote the Historical Memorials, standay, Site H. M., (1824-5094). Born at Denbigh, of humble parentage and placed in St. Asaph workhouse under the mane of John Rowland. While young he went as cahin-boy on a sating vessel to New Orleans. There a merchant named Henry Morton Stanley (whose name he afterwards adopted) gave him employment, adopted and educated him, but his benefactor dying, he was left without provision, and had to sell newspapers in the str..... On the outbreak of the Civil War he enlisted on the Confederate sails. but his benefactor dyung, he was left without provision, and had to sell uewspapers in the strt.... On the outbreak of the Civil War he enlisted on the Confederate side, was made prisoner, and put to work on a warhup. Escaping, he turned his attention to writing establishing a connection with the New York Herald. After the war he got engaged on the reporting staff of that journal, and was sent as special correspondent with the United States forces in the Indian Territones. Next he was war correspondent for the Herald with the British expedition to Magdala. Later on Mr. Gordon Bennett commissioned him to go to Africa and find Livingstone, then supposed to be lost in the southern interior. Early in 1871 he left Zanzibar with a large party, and plunged into the "Dark Continent," succeeding in his quest the same year. Frem 1895 to 1900 Stanley sat in the British Parlament as M.P. for Lambeth, and was knighted in 1890. He published numerous fascinating works describing his adventures, and in 1890 married Miss Dorothy Tennant. His Autobiography, published since his death, is a remarkable work.

Staunten, Howard (1800-1894), Shakespearean commentator and writer on chess-play, being also alone time regarded as the strongest player of the game, defeating the French master, Saint-Amannt, in 183, His Memorials of Shakespeare (1840) was a worthy work, as was his volume on The Great Schools of England (1895).

Stand. William Rhomers (1890-1894), Shakespeare and on the retirement of Mr. John Morley in 1883, His control of the Pall Mall Gazette, succeeding to the full editorship on the retirement of Mr. John Morley in 1889, His control of the Pall Mall Gazette, succeeding to the full editorship on the retirement of Mr. John Morley in 1889, His control of the Pall Mall Gazette, succeeding to the full editorship on the retirement of Mr. John Morley in 1889, His control of the Pall Mall Gazette, succeeding to the full editorship on the retirement of Mr. John Morley in 1889, His control of the Pall Mall Gazette, succeeding to the

Stacle, STR Richard (1071-1720). Born in Dublin, he was the son of a lawyer, who died while Steele was a child. Through family influence he was sent to the Charterhouse School (where he made Addisors's acquaintance) and to Oxford, and after Addison's acquaintance; and to Oxford, and arrewards entered the Army and rose to be a capitalis in the Horse Gyards. Then he drifted into literature, and wrote poems and pecces for the stage, but his first real success came when, in 1799, he began the publication of the Tatter, which made a great hit, Addison contributing many papers. Twe years later he and Addison were associated in The Spectator, Addison, however, being the leading contributor. The Guardian was another of Steele's ventures.

The Guardian was another of Steeles ventures. He sat in Parliament for some time, and was knighted by George I.

Staphen (1705-1154) was King of England from 1155 to his death, usurping the crown that of right belonged to Matilda, the daughter of Henry I. He overcame the scruples of the nobles and of the ecclesiates by granting them mcrossed privileges, but he was in no cases a normal a nonlar magnarch. ense a popular monarch.

sense a popular nonarch.

Stephen, Sir James (1789-1859), an English
statesman, writer, and sometime Reguss Professor of
Modern History at Cambridge University. He was
Under-Secretary for the Colonies from 1834 to 187,
and published Lecturers on the History of France
and Essays in Ecclesiastical History.

and Essays in Ecclesiastical History.

Staphen, Sir James Fitzjames (1827-1824), a
great English purist and Judge of the High Court,
who published some valuable works on our Crimmal
Law, and an admirable Digest of the Law of
Evidence. Son of the foregoing.

Staphen, Sir Lealis (1837-1904), an eminent
writer, ciute, and blographer (brother of the last
mentioned). Married as his first wife the younger
daughter of Theckeray, the novelst, and was at one
time Clark Lecturer on English Lateraure at Cambridge. Relief of the Cambel Marganus (1827-1880) time Clark Lecturer on English Literature at Cambridge. Edited the Cornhul Maganne (1891-1882) and the Dutonary of Natuonal Singraphy (1883-1894), Was a great hook-lover, and wrote Hours in a Library (three series), a History of English Thought in the Eighteenth Continy, History on Freelbinking and Plain Speaking, and many admirable hopersubuse, and other volumes. admirable biographies and other volumes

Stephens, James (1824-1901), a native of Kilkenny, and one of the prime movers in the Fernan agitation, known to his associates as the "Head Centre." to the point of open action he was of great help as an organiser, but at the critical moment showed more discretion than valour by taking relige in America. Later he was allowed to return to Ireland, where

he died.

Stephenson, George (1721-1848), was born at Wylam, near Newcastle, and up to 1804 was mamly engaged in ordinary colliery occupations. In 1804, however, an engagement as brakesinan at a Killingworth collery broacht him in touch with the working of Watt's steam engine, and his first efforts in inventors. tion were in improving one of those engines, showing so much ability that he was offered an engineering the position at Killingham, which he half for some time. Then it was that he began to think seriously of proliting a loomotive enjune, and managed to construct an engine, that would draw coal trucks at construct on engine that would draw coal trucks at the rate of four miles an hour. In 182r, when the Stockton and Darlington Railway was undertaken, he was appointed engineer, and when the railway was opened in 1825, as a line for the transport of coal only. Stephenson won his first great trumph, by putting a locomotive on the line that was able to draw a train of thirty-eight carriages, ladem with goods and passengers, at a rate of twelve miles an hour. George Scephenson subsequently, assisted by his son Robert, constructed the Liverpool and Manchester line, and after that the railway era communication. commenced.

Stephenson, Robert (1803-1850), was the only son of George Stephenson, and attained great enmence as a civil engineer. For some years he was assistant to his father. On the cider Stephenson's retirement, Robert was the most prominent man in railway Robert was the most promment man in railway engineering for many years, constructing numerous important railways, and winning espect. fame in bridge building, being designer and contractor for the High Level Bridge at Nowcastle, the Menai and Conway Tubular Bridges, the Victoria Bridge across the St. Lawrence at Montreal, and two notable bridges over the Nile. Sat in Parliament for some years as member for Whitby. He was buried in Westminster Abbey.

Westminster Abbey.

Starne, Laurence (1713-1708), one of Britain's greatest humorists. Was born in Ireland, educated in Yorkshire and at Cambridge, and, obtaining Holy Orders, was preferred to the living of Sutton, near York, at which place he resided for twenty years, becoming Prebendary of the Cathedral. It was here

that he wrote his great work Tristram Shandy, the first two volumes of which were published in 1793, and the last in 1767. The novel was so unique in character, and so sparkling with wit and high spirits that, despite a certain coarseness, which gave less offence in those days than it would have occasioned in our time, it made him famous. He also wrote The Sentimental Yourney, and published some volumes of sermons.

of sermons. Robert (1772-1850), a native of Giasgow, and famed as a builder of lighthouses, including that on Bell Rock. He also invented the "flashing" system of throwing light at sca.

Stevenson, Robert Louis (1850-1894), was born at Edinburgh, and was intended for the profession of a civil engineer, but his delicate condition of health stood in his way, and, he tred his land at various kinds of composition, including some essays which, in 1874, were published in the Cornkill. From that time he travelled for some few years on the Continent and it was while journeying through France that he met Mrs. Osborne, a Californian lady, of whom he became deeply enamoured. He followed. of whom he became deeply enamoured. He fol-lowed her to America in 1879, and they were married lowed her to America in 1879, and they were married the following year. For the next few years he drifted hither and thither in quest of health; was now in Scotland, now at Davos, now at Bournemouth, and findly at Samoa, continuing to turn out a remarkable series of essays and stoiles to the end.

end.

Stewart, Dugald (1753-1825), was Professor of Moral Philosophy in the University of Edinburgh from 1785 to 1520. He wrote largely on philosophical questions, but was more famed as a critic than as an original thinker. His works include Liements of the Philosophy of the Human Mind, Outlines of Moral Philosophy, and Philosophy of the Active and Manuel Dugare.

Moral Powers.

Moral Pawers.

Moral Pawers.

Stillingfleet, Edward (1635-1699), was Bishop of Worcester for the last eleven years of his life, and had previously been canon and dean of St. Pauls. He was a controversalist of great power, and as a theologian made a memorable mark. His Kathonal Aucont of the Grounds of Natural and Revealed Religion is still held in great regard.

Stocasel, General (b. 1848), a Russian General whose name was proquent in not as that of the

Scensel, General (b. 1838), a Russian General whose name was prominent in 1904 as that of the commander of the defence of Port Arthur against the Japanese, He entered the army in 1806, and served in the Russo-Turkish and China campaigns. Tried before a court-martial in February, 1708, for neglect of duty at Port Arthur, he was condemned to death but the content. to death, but the sentence was commuted to one of ten years' imprisonment in a fortress. On the plea

ten years improvement in 2000.

Stolypin, Peter Arkazhevich (1863-1911), the eminent Russian statesman who after serving several high government positions became Premier in 1906.

high government positions occaine rremier in 1900.
Assassinated at Kieff in September, 1911, after many previous attompts on his life.
Stothard, Thomas, R.A. (1755-1834), a graceful and successful book illustrator, whose services were in great demand for many years. He illustrated in great demand for many years. He illustrated Scott, Shakespeare, and most of the British classics. He was made librarian of the Royal Academy, a nost which he held for a considerable period.

Stow, John (1525-1605), was a famous antiquary, who in 1561 published A Summary of Englishe Chronicles, and in 1598 issued his celebrated Survey O' London and Westmanster, to which we owe so much of our knowledge of the early listory of the capital. A larger work upon which he was occupied more or less for forty years, Ston's Chronactes, was not published until after his death.

Stewe, Harriet Beecher (1811-1896), a famous authoress, whose Uncle Tom's Cahin was one of the most successful Sooks ever published. Written to most successful Gooks ever published. Written to expose the horors of slavery, it did much to advance the cause of abolition which the Civil War finally effected. Her other works include Dred, another slave story, and The Ministers Wooing.

Strachey, Barton (b. 1889), formerly Sir Edward Strachey, Bart, was M.P. for South Somerset from 1892 to 1911; was Treasurer of His

Majesty's Household, and representative of the Board of Agriculture in the House of Commons. Stranhey, John 58. Loo (b. 1860), editor and preprietor of the Speciator, a one-time editor of the Cornhull Magazine, and author of several works on

commit questions. A Free Trader.

Stradivari, Antonio (1644-1730), in Italian maker
of violns, first in his art in the world of all time;
born at Cremona, pupil of Ameti; two sons of
Stradivari (name is usually Latmies dinto Stradivarius),

Stradivar (name is usually Latmised into Stradivarius), Francesco and Omobono are also noted.

Strafford, Thomas Wentworth, Earl of (1933-1641), the distinguished statesman, sent by Charles I, to Iraland as Lord Deputy in 1633, where he incurred the odium of the people by his extreme harshness. He seems to lawe imposed cruel exactions upon the people, partly for his own enrichment and partly for the benefit of English trade, but he was the founder of the Irish linen manufacture and did now in the property of arcsiculus. and did much for the promotion of agriculture. He obtained the name of "Thorough" by his advocacy of sweeping measures for asserting the King's authority, but, falling under the suspicion of Charles. automy, not, naming under the suspicion of Charles, or having proved too domineering for the King's comfort, he was ultimately impeached in Parliament on a variety of charges, found guilty, and executed upon Tower Hill.

Strathcona, Lord (1820-1914), a Canadian railway magnate who amassed a fortune, was a munificent inaginate who analysed a rotune, was a managera benefactor to the Hommon, by the ample bounds of which, however, his philanthropy and public spirit were not circumscribed. With Lord Mountstephen the fine old veteran produced the capital to yield £16,000 a year to the King's Hospital Fund, and when the South African War was on he raised Strathcona's Horse for service there He went to the

Strathcona's Horse for service there. He went to the Hudson's Hay Company as quite a joungster, and was Special Commissioner in the fair-away days of the Red Kiver Reletion.

Strathmairn, Lord (1801-1884), as Sir Hugh Rese, won much distinction in the Indian Mutny, and from 1860 to 1865 was Commander-in-Chief of the army in India, while from 1865 to 1870 he was Commander-in-Chief in Ireland.

Straths. Dayld F. (1868-1824) was an eminent

Commander-in-Citel in Ireland.

Breauss. David F. (1698-1874), was an eminent German theological writer, who made a great styr in the religious world by list Left of Fesse, published in 1875, which attempted to prove that the evangelical instery mainly rested on a series of myths. His opinious secured his dismissal from two myths 115 opinions secured his dismissal from two important university posts at Tubingen and Zürich; but he continued his researches, and subsequently published several unportant works which were widely read, including The Old and New Faith, and a Life of Uiruk von Hittlen.

BERRUSS, Johann (1804-1819), an Austrian composer and conductor, famous for his dance music of who h

kersuss, Johann (1801-1819), an Austrian composer and conductor, famous for his dance music, of which he produced some 250 pieces, many of them of a very high level. His son, Johann (1835-1896), was even more distinguished in the same him, as the composer of the "Blue Danube" waitz and nearly 400 other dance times; while a younger son, Eduard (b. 1835), became conductor of the Court balls at Vienna in 1870, and was responsible for well over 200 compositions; and yet another son, Joseph (1839-1876), composed some 270 dances. The famous Strainss band, with which the family have so, long been associated, has compelled the admiration of generations of music lovers in this country as tion of generations of music lovers in this country as well as in the capitals of the Contment.

Strauge, Richard (b. 1864), the son of a horn player in the Court Opera House at Munich, where he himself became conductor in due course, and was he minsett became conductor in due course, and was later given the between the Royal Opera House, Berlin. He is the composer of many charming songs, and has won great distinction in the witing of elaborate instrumental music, operas, symphonies, etc. A notable Richard Strauss festival gook place at the St. James's Hall in London, in 1903, when the Amsterdam Orchestra performed "Ein Heldenleben" and numerous others of the gifted composer's emasteric recognition.

matterly conception.

Strickland, Agnes (1806-1874), an English authoress, who attained considerable popularity

during her lifetime by her Lives of the Queens of England and Lives of the Queens of Scotland, and other works, in the writing of which she was assisted by her sister, Elizabeth.

by her shier, Euganeur.

Sports and Pastimes of the People of England, and numerous other works, all of which he himself illustrated. His books are full of antiquarian lore, and of great value to the lustorian.

Strype, John (1643-1737), the ecclesiastical biographer and historian whose lives of the English Reformation leaders and Ecclesiastical Memorials

Reformation leaders and Extravasces Report are held in high esteem.

Stuart, Araballa (1575-161), daughter of the Earl of Lennox and cousin of James I., whose next heir she was both to the English and Scottish thrones. In 1610 she married William Szymour, afterwards Earl of Hertford and Duke of Somerset, and thereby hand the Standards Alband Standards have a ingracrated

Earl of Hertiord and Duke of Somerset, and thereby incurring the King's displeasure, she was incarcerated in the Tower of London, where she died mane, the stubbs, Bishop Charles William (b. 1845), appointed to the Sec of Truro in 1926, previously for twelve years Dean of Ely. Author of numerous theological works, miscellaneous writings, and some

theological works, miscellaneous writings, and some very creditable poetry.

Stubbs, Bishop William (1825-1907), a very distinguished Anglican churchman and learned historical writer, who was in turn Regius Professor of Modern History and Curator of the Bodleian Library at Oxford, Canon of St. Paul's, Bishop of Chester, and finally Bishop of Oxford. He was the author of The Constitutional History of England and its Origin and Development (1874-1898), Figoris of Modern History, and a large number of other important works on connate theirs. important works on cognate themes.

important works on cognate themes.

Sturt, Sir Charles (1795-1859), an English explorer in Austra'is who discovered the Darling River in 1828, and the Murray River and Lake Alexandrun later, and conducted an expedition into the interior in 1844-1845. Mount Sturt in the Gawler range, South Australia, is named after him.

Suckling, Sir John (1009-1612), a favounte English poet, who wrote many dainty and well-known songs and ballads. For a time he served under Gustavins Ad-liphus; during the Civil War commanded "a ragged regiment"; was a member of the Long Parhament, and being discovered in a plet for the rescue of Straiford, in 1644, fled to France, and died there.

Sudermann, Herman (b. 1857), a German

France, and died there,

Budarmann, Herman (b. 1857), a German

dramatic poet and divelple of Ibsen. Among his
plays are "Helmat"—in which Sarah Bernhardt has
appeared with surcess—" Es lebe das Leben," and
the tragedy "Johannes," while he has written some
notable novels, including Es Var and Frau Sorge.

He lives in Berlin, and formerly edited the Deutsches

See Eugene (1804-1857), a famous French novelst, whose stories, The Mysteries of Farts, The Manderna Tew, and other sensational and highly realistic works, were at one time immensely popular. He was the son of one of Napoleon's surgeons, and was a member of the Assembly in 1850, but his Socialistic leanings caused hun to be expelled after

the coup d'état.

Bulla, Lucius (138-78 B.C.), the Roman dictator, and a general of considerable renown. He attempted

and a general of considerable renown. He attempted various constitutional reforms, reconstructed the judiciary and the senate, and established military colonies before he resigned the dictatorship, 70 B.C. Sullivan, Barry (1824-1831), an English actor who attained great popularity in trage; and "heavy" parts generally, and had a long run of success in all parts of the United Kingdom, as well as in Australia and the United States.

Australia and the United States.

Bullivan, Bir Arthur Saymour (1842-1900), one of the most grited of modern British composers, gamed his first musical experiences as chorr-boy at the Chapel Royal, but early showed capacity as a composer. He won the Mendelsoim Scholarship at the Royal Academy of Music in 1895, and after that studied at Leipsic. In 1862 his music to Shakespeare's "Tefinpest" was successfully given. His first really ambitious work was his oratorio, "The Prodigal

Son," produced in 1868. A second oratorio, "The Light of the World," was givenin 1873. Meanwhile, the composer had been cultivating with pronounced success a lighter vein. A musical version of "Box and so," and a more original trifle, "Trial you for the libretto of which Mr. (now Sir) was a success a lighter vein. A musical version of "Box and so," and a more original trifle, "Trial you you for the libretto of which Mr. (now Sir) was a produced, the Gilbert-Sullivary road to popularity, and from 1877, when the "Sorcerer" was produced, the Gilbert-Sullivary operas were for a number of years the most profitable stage-productions of the time. They comprise "Falsone," "Falsone," "Frincess Ida," "The Mikado," "Ruddigore," "The Yeomen of the Guard," "The Gondoliers," etc. A more serious opera of Sir Arthur's, "Ivanhoe" was produced at the opening of Mr. D'Oyly Carte's English Opera House, now the Falace Theatre).

Sully, Maximilian (1500-1641), a French Protestant statesman, a friend and companion of Henry of Nivarne. He was distinguished also in the field, especially at Ivry, and after being Minister of Finance, became Governor of the Bastille, and was later on made a duke and a Marshal of France. His Memoirs made notable reading.

Summar, Charles (1811-1874), an American statesman and anti-slavery oraror of very considerable ability. He was at one time a vigorous opponent of the policy of Grant, and acted as Chairman of the Foreign Relations Committee of the United States for ten years, being removed therefrom for his antagonism to the proposal for the annexation of Santo Domingo. His published works, mainly handling political themes, ran up to fifteen volumes.

Suther and Sir Thomas (b. 1834), Chairman of the Perlisular and Oriental Steamship Company, was born in Aberdeen, and while a companyion in Aberdeen, and while a companyion of the Perlinaular and Oriental Steamship Company, was born in Aberdeen, and while a companyion in hereful to one of the most important undertakings of its kind. Sir Thomas at in Parlame

Maeterlinck.

Maeterlinck.

Swan, Sir Joseph Wilson (1808-1914) was born at Sunderland, and first became known as an inventor in photography, being the discoverer of the autorype process, and of the art of making rapid dry plates. Turning his attention to electric lighting, he invented the incandescent electric lainp. He was the recipient of numerous honours from scientific bodies at home and abroad, was M.A., F.R.S., and D.Sc., and received the honour of knighthood in rood.

in 1904.

Swedenborg, Emanuel (1688-1772), was born at Stockholm, and for some years, devoted himself to science. In later life he announced that Divine authority had been given him to explain natural and spiritual evidences. He published in quick succession Areana Calestia. The Apocatypes Revealed, Four Preliminary Doctrines, and The True Christian Religion. He also claimed that his soul had been permitted to travel into hell, purgatory and heaven, and propounded a new theology in which there was much sound wisdom.

Swift, Jonathan. Dean (1667-1748), was born at

Swift, Jonathan, Dean (1667-1745), was born at Dublin, educated at Trinty College at the expense of an uncle, became secretary to Sir Willia, at Temple, and looked for political preferment, but it did not and looked for political preferment, but it did not come. Entering the Church, he was made Dean of St. Patrick's in 1713. Getting entangled in political controversy, and changing list views from the Whig to the Tory aide, he lost favour with the popular party, but consoled himself with a devotion to literature, which he greatly enriqued by some powerful satires, poems and discourses. Guilliver's Travatis, A Tate of a Tub, and The Battle of the Books are among his best-known works. His romantic attachment to "Stella" (Hester Johnson, whom he is believed to have married privately) and

"Vanessa" (Esther Vanhomrigh), and their devotion to him, are familiar stories.

Bwinburne, Algarion Charles (1837-1909), was educated at Oxford, and in the early "sixties" of last century gave to the world a number of poems of singular poetic beauty and nusical charm, which procured him high rank among English poets. Mr. Swinburne's most famous productions include "Atalanta in Calydon," "Songs before Sunrise," Bothwell," and "Mary Stuart." Perhaps the best of his prose writings is his essay on William Blake.

Blace.

Swithin, St. (circa 800-862), was made Bishop of Winchester in 853, and on the translation of his remains, with great ceremony, to a shrine in the interior of the cathedral from the graveyard, fixed for July 15th, 973, violent rain intervened, and, it is said, centinued for forty days; hence the superstituon as to rain upon what thenceforward became known as St. Swithin's Day.

known as St. Swithin's Day.

Sydenham, George Sydenham Clarke, 1st
Baron, K.C. M.G., F.R.S. (b. 1848), educated at
Haileybury and Wimbledon: entered the Reyal
Engineers 1868, served in Egypt, and made K.C.M.G.
In 1895 for organising system of Colonial defence.
Was Governor of Victoria 1921-1924, secretary of the
Committee of Imperial Defence 1924-1927, member
of War Office Reconstruction Committee 1924, and
was appainted Governor of Bombay in 1927, retiring
in 1922, when he was a rised to the merage.

was appeared Governor of Homosy in 1907, retiring in 1913, when he was raised to the peerage.

Symonds, John Addington (1240-1893), was born in London, educated at Harrow and Oxford, and acquired faine as a poet and writer on The Remaissance Period in Italy, with which he was in complete sympathy. His style was scholarly, profound, and highly critical.

Tacitus, Calus Cornelius (55-circa 130), was Consul in Rome under the Emperor Nerva, and held other appointments, but his chief claim to remembrance is the fact that he was one of the ablest of Roman historians, and left behind hum a number of works—among them a life of Agracola—his Annales, which have formed the ground-work of much that has since been written on the period be covered. Tractives. Winervas Claudius (con-26), the Roman Claudius (con

Tacitus, Marcus Claudius (200-276), the Roman Emperor who succeeded Aurelian in A.D. 275. He had twice served as Consul, and was a descendant of the famous historian. His short reign was wise and

marked by moderation.

Taft, Wm. Howard (b. 1857), American statesman, formerly a judge, came into note in connection with the Philippine Commission of 1900.4, of which with the Philippine Commission of 19.0.4, of which he was President, acting as Civil Governor of the Islands from 1901 to 1904, in the latter year being appointed Secretary for War. Visited Japan in 1907. Succeeded Mr. Roosevelt as President in 1908. Was again a candidate for the presidency in 1912, but was defeated by Woodrow Wilson.

Taglioni, Marla (1804-1884), a famous dancer, daughter of the Italian ballet-master and composer of "La Sylphide," Filippo Taglioni (1971-1871). Her style was light and airy, as distinguished from the sensuousness of Madame Vestris. She was born at Stockholm, created a furore as première danseuse

style was light and airy, as distinguished from the sensuousness of Madame Vestris. She was born at Stockholm, created a furore as première danaeure at Vienna as a mere girl in 18.8, and later was the rage of London. Married Count de Voisins in 1837, and retired from the staye in 1842.

Taine, Hippolyte Adolphe (1824-1833), an able French historian and critical writer, appointed Professor at the School of Fine Arts in Parls in 1884, made LL.D. of Oxford in 1871, and a member of the Academy of France in 1878. He wrote learnedly on linglish and French literature, history, and philosophy, ancient and modern, and was a scholar of great breadth and brillhance.

Tait, Archibald Campbell (1871-182), was Archibándo of Canterbury from 1868 to his death. He was educated at Oxford, and allied himself with the Tractarian movement. He succeeded Dr. Arnold as headmaster at Rugby in 1842. Was Dean of

Carlisle from 1850 to 1855, in the latter year becoming Bishop of London, holding that position until his preferment to the Primacy.

Talbot, the Rt. Rev. E. S., D.D., Bp. of Winchester since 1911 (b. 1844). Educ. Charterhouse and Christ Church, Oxford : Warden Keble Coll., 1870-88; Vicar of Leeds, 1889-95; Bp. of Rochester, 1895-1905; of Southwark, 1905-11. Author of looks on theology.

Talbot, Hajor-Gen. Hon. Sir R. (b. 1841).

Talbot, Major-Gen. Hon. Sir R. (b. 1841). Governor of Victoria roy-8, has soen a good deal of active service. Went through the Zulu campaign of 1881: Egypt, 188-5; initiary attaché in Paris, 1889-95; and commanded army of occupation in Egypt, 189-1903.

Talfourd. Sir Thomas Moon (1795-1854), English judge and writer, and author of /on, a tragedy which w.-9 produced by Macready.

Talleyrand - Perigord. Prince (1754-1838), a distinguished French diplomatist, who lived through distribut times and took an active part in them, some-

stirring times and took an active part in them, sometimes on one side, sometimes on another. For a time he was Bishop of Autun, but to excape the dangers of the Revolution relinquished his see and went to of the Revolution relinquishted his see and went to America. After the Terror he ventured back to Paris, and became Foreign Minister under the Directory, remaining in that office, and greatly distinguishing himself in it, down to 1807, when the Emperor, becoming distrustful of him, deposed him. While Napoleon was at Eliba Talleyrand was appointed Prime Minister to Louis XVIII and under Louis Philippe, he was 4 Applessed to Louide.

Louis Philippe, he was Ambassador to London.

Tallien, Jean L. (1760-1820), was one of the prominent leaders of the later Revolutionary movement in France and Consul at Bordeaux during the early days of the Terror, carrying out Robespierre's instructions with apparent zest. Under the influence of his wife, Theresa de Cabarrus, better known as Madame de Fontenay, however, he gradually modes rated his ardour, and eventually returned to Paris and was mainly instrumental in procuring the downfall of the tyrain. Under Napoleon Tallien rose to some honour, accompanied the limperor to Ligypt, and later ou was appointed to a Spanish Consulate.

Tailis, Thomas (1513-156), a distinguished musician, who was, as organist, attached to the Chapel Royal under Henry VIII., Edward VI., Mary, and Elizabeth, and was the composer of some of the finest of our Church music.

Tameriane, or Timur the Tartar (1335-1405), descendant of a follower of Jonghiz Khan, and founder of the Mogul Dynasty in India. He succeeded as chief of the Berlas Turks in 1361, and succeeded as chief of the Herias Turks in 1301, and in turn conquered Turkestan, Persia, and Syria. He was a masterful warrior, and a terrible butcher, the scourge of the Hast in his day, and, after establishing himself in India, died whilst preparing for the invasion of China. His familiar name is a corruption of Timdr-lenk = "Timdr the Lame"

Tangred (1078-1112) was a great Crusading hero, whose adventures and chivalrous deeds invested his

whose adventures and chivalrous deeds invested his name with considerable romance. He was a Sicilian prince of Norman descent and the most prominent personality of the first Crusade. His virtues and achievements were celebrated by Tasso in his "Jerusalem Delivered."

Tannahill, Roberz (1774-1810), a tender and gifted Scottish poet, whose lyrnes—chief amongst which are the "Flower o' Dunhlane," and "Gloomy Winter's noo awa"—were unspired by the desire of emulate Burns. He was bred a weaver of Palsley, and there died by his own hand.

Tannahimar, a mythical German minnesinger or

Tannhauser, a mythical German minnesinger or the rath century, who belonged, according to the legend handled so romantically in Wagner's opera, to the Salzburg family of Tanhuser, and was the

to the Salzburg family of Tanhusen, and was the beloved of Lisaura.

Tarquin Superbus (or "the Proud"), the last King of Rome, who reigned for twenty-four years. Was banished 500 B.C. in consequence of the infamous conduct of his son, Tarquinius Sextus, who wrought upon Lucretia "the deed of shame." Tarquin "the Proud" attempted to regain his power, but was completely defeated at the famous battle of Lake Regillus, and died subsequently of

the wounds he there received. After Tarquin's

deposition came the Consuls.

Tarquin tha Bilder, 5th king of Rome, succeeded Anclus Martius 6rg B.C., reformed the laws and embellished the city, and was assassinated, according to the legendary history, 577 B.C.

Tasman, Abel Jamssen (crra r603-1659), was a famous Dutch navigator about whose adventures there is much uncertainty, except that in fote he discovered the island of Tasmania and New Zealand shortly thereafter. He undertook a further Australasian voyage in 164, of which little is known save that therein he discovered the Gulf of Carpentaria, and returned to Batavia, and there died fifteen years later.

died fifteen years later.

Tasso, Torquato (154-1505), was one of the great
Italian poets of he 16th century. His fame chiefly
rests upon his "Jerusalem Dellevered," a noblyconceived work, which is known in all languages.

Tatian, a noted writer on Christianity, who fourshed
in Syria in the second century. His Apology for
Christianity and A Harmony of the Four Gosphi,
shed considerable light upon the position of
Christianity in his time.

shed considerable light upon the position of Christanity in his time.

Tauchnitz, Barnhard, Baron won (1836-1884), won wide celebrity by his enterprising expansion of the Leipsic publishing business established by his uncle, and particularly by the cheap editions of English and German classics with which he flooded the Continent.

Tauler, Johann (1290-1361), a German Dominican monk and mystic, who was styled "the Illuminated."
Disregarding the interdict of John XXII, in 1339, he
established himself at Basel, and became associated
with the "Friends of God," afterwards returning to Strasburg. His sermons, printed after his death, and The Book of Spiritual Poverty—also ascribed to him—contain much that is remarkable.

him—contain much that is remarkable.

Taylor, Eayard (1825-1878), an eminent American writer and traveller, who visited Central Africa, India, Chuna, Japan, Greece, Russia, etc., and wrote very pleasant books describing those countries. He also wrote a life of Goethe, and translated that poets. Faust. He was United States Ambassador to Berlin at the time of his death,

to Berlin at the time of his death.

Tayler, Brook (1885-1731), an English mathematician of high attainments, who was some time Secretary to the Royal Society, solved the problem of the centre of oscillation, and is best known as the discover of "Taylor's theorem."

Taylor, Sir Hanry (1800-1886), statesman, poet, and crinc. Held an appointment in connection with the Colonial Office, and was author of the dramas, "Philip van Artevelde," "Edwin the Fair," and "Isaac Comnenus"; of "The Eve of the Conquest and other Poems"; and of Notes from Boaks and The Statesman, besides an autobiography.

The Statisman, besides an autobiography.

Taylor, Isano (1967-1865), originally a student of art, but became famous as a philosophical author, whose books, The Natural History of Enthussiam, The Natural History of Fonatictim, Physical Theory of Another Life, Restoration of Belaf, etc., were marked by much penetration. His son, Canon Isanc Taylor (180-1901), was a philologist and antiquarian and historical writer, who poured forth multitudinous books from the Yorkshire rectory at Settington, which he occupied for over a quarter of a century, the most notable of his productions.

Settington, which he occupied for over a quarter of a century, the most notable of his productions, perlaps, being his Words and Places, and his works on the alphabet and the origin of the Aryans.

Taylor, Jeremy (1503-160), an English divine of great influence, who was chaplain to Charles I., and suffered greatly in the troubled period of the Civil War, but on the restoration of Charles II. was made Bishop of Down and Connor. The most famous of his works was his Hoty Letving and Hoty Dying. He married a natural daughter of Charles I.

Taylor, John (150-1505), was a poet of some note in his day, who followed the occupation of a waterman. He wrote many quaint and interesting poems, including his "Penniless Fligringace," "Travels in Germanic," and "The Praise of Hempseed."

Taylor, Rowland, vicar of Hadleigh and chaplain to Crammer; for refusing to renounce Protestantism

was condemned to the stake and suffered death in

was condemned to the stake and suffered death in 1955 along with other martyrs.

Taylor, Tom (1817-1880), a clever humorist and dramatic writer, who was Professor of English History at University College, London, from 1845 to 1847, and succeeded Shirley Brooks as editor of Punch. His principal plays were "The Ticket of Leave Man," and 'Still Waters Run Deep."

Taylor, Zachary (1784-1850), twelfth President of the United States. He was a distinguished soldier,

the United States. He was a distinguished solder, as well as a statesman, earned the sobriquet of "Old Rough and Ready," and was President m 1840.

Teak, H.S.H., Prince Alexander of, G.C.B., D.S.O., appointed Governor-General of Canada, 1974 b. 1874). 3rd son of the late Duke and Duchess of Teck. Educated at Eton and Sandhurst. Major and Life Guards. Seen active service in S. Africa.

Tegner, Essalas (1982-1846), Swelish poet, theologian, and Greek professor. Wrote a celebrated cycle of romances based on the old Norse Sigas, and became the principal poet of the so-called Gothic school Much of his life was clouded by hereditary ineutal disease, but he achieved enduring fame by his "Frithjofs Saga."

fame by his "Frithjofs Saga."

Tallord, Thomas (1757-1894), was a Scottish working stone-mason during the early part of his career, but by his ability obtained advancement, receiving the appointment of Surveyor of Public Works for Shropshire, and taking up the profession of civil engineer. Some bridges that he constructed in the Midlands led to his being entrusted with important contracts in various parts of the counter. important contracts in various parts of the country. He attained special fame as a builder of bridges, the Menai Suspension Bridge being, perhaps, his greatest work. He constructed the Ellesmere Canal, made many hundreds of miles of difficult mountain roads, was chief engineer of the Caledonian Canal,

roads, was chief engineer of the Categorian Canan, and altogether did an immense amount of public work. He was buried in Westminster Abbey.

Tell., William, the celebrated Swiss patriot who was born about the end of the 13th century at Burglen, near Altdorf, and headed the resistance to the Austrians in 1307 and later. The story of his having been compelled to shoot an apple from the head of the how he Gastler and his dramatic revenue. having been compelled to shoot an apple from the head of his boy by Gessler and his dramatic revenge is now regarded as a legendary localisation of a feat which had been attributed on English territory to William of Cloudesley, and had become a common Teutonic tradition before Tell's time. The Switzer hero of the Uri had, however, a great part in the strenuous struggle of the mountaineers for independence against the Emiperor Albrecht, and died circa 130, after the firm foundation of the League which gave birth to the Helvetian Confederation.

which gave birth to the Helvetian Contederation.

Temple, Frederick (1821-1902), a famous Anglican
Churchman, who graduated at Balliol College,
Oxford, with a double first-class, became Headmaster of Rugby School in 1858, in 1860 attained
notoriety as the author of the first of the muchcontroverted Essays and Reviews, advocated the
disestablishment of the Insh Church in 1868, was
accounted Rubers of Essats in 1866, twast the dise

disestablishment of the Insh Church in 1868, was appointed Bishop of Exeter in 1869, translated to London in 1888, and in 1896 was raised to the Primacy. He made a strong Archbishop, and dominated the Church with his vigorous personality. Temple, Bir William (1628-1699), English statesman and suthor; was Ambussador to The Hague in Charles II.'s time, and is understood to have been instrumental in bringing about the marriage between William of Orange and the Princess Mary. William III. twice offered him the position of Secretary of State, but he declined the honour, spending the years of his retirement at Moor Park (where Swift served him for a time as private secretary) in Swift served him for a time as private secretary) in literary pursuits. His essays are the work of a literary pursuits. cultivated mind.

cultivated mind.

Taniers, David (the younger) (1610-1694), was one
of the greatest of the Flemish painters. He was
born at Antwerp, and his paintings of the old rustic
Flemish life are unsurpassed in their humour and
fidelity. He died at Brussels. His father, David
Teniers, the eider (1920-1649), was also one of the
leading landscape painters of the time, and learned
his art under Rubens.

Tenniel, Sir John (1820-1914), was for over fifty years one of the leading artists of Punch, and, from the death of Leech, its principal cartoonist. His cartoons were remarkable for their accuracy of carroons were remarkable for titler accuracy or drawing, vigour of treatment, and clearness of idea. Some of his double-paged cartoons were really great, as for instance, his "Dropping the Old Pilot," which appeared after Bismarck's dismissal from office. Tennici also illustrated numerous books, including Alice in Wonderland. He was knighted in 1893, and

Alte in Wonderland. He was knighted in 1893, and retired from Pinch: in 1901.

Tannyson, Alfrad, Lord (1809-1892), was Post Laureate from 1890 to bis death. Born at Somersby, in Lincolnshire, he evinced the poetic gift while quite young, and in 1892, joined his brother Charles in the publication of "Poems by Two Brothers." In 1830 and 1892 he again appeared before the public, the two small volumes of those years, written entirely by humself, serving to mark him out as one of the coming men in poecy. It was not until 1842 that he was men in poesy. It was not until 1842 that he was again attracting attention with two volumes; but these more than confirmed previous promise. In 1847 he published "The Princess"; in 1850 "In 1827 he published "The Princess"; in 1850 "In Memoriam," a poem of great beauty and depth of thought, in which he enshrined his affection for the memory of his dead friend Arthur Hallan; and 1855 "Maud" appeared. His other works include "The Idylls of the King," "Enoch Arden," "Queen Mary," "Harold," and "Becket." He was raised to the peerage in 1883. "Zennyson, Hallam, 2nd Baron (b. 1869), son and biographer of the great poet of the Victorian era last mentioned. Governor of South Australian 2890-2902, when he became first acting Governor-General of the Australian Confederation, and retained that exalted office for two years. Besid see the

tained that exalted office for two years. Besides the memoir (in 2 vols.) of his father, Lord Tennyson has published some verse and magazine articles.

published some verve and magazine articles. **Terence** (area 194-788 B.C.) the famous Roman poet and dramatist, who by his talent rose from the position of a slave to that of one of the most honoured men in Rome. Six of Turence's comedies are extant—"Andrea." "Hecyta," "Heavion-improvements," "Eunuchus," "Phormio," and "Adelphi"

menos, "Eunuchus, "Phormio, and "Adelphi."

Teresa. St., or Tharesa (1515-1582), a Spanish
sant and author, who was born at Avila in 1515,
entered the Carmelite order in 1524, established a
reformed order in 1524, became famous for her
ascente life and mystic visions later, and died in 1584
at Alba de Liste. She left behind her some notable
religious writings, afterwards published, including
The Way of Perfection and The Castle of the Soul.
She was canonised by Pope Gregory XV.

Terry, Ellen 1887s. James Carew) (b. 1848),
one of the most distinguished of modern English
actresses. Began her stage life when seven years of
age in one of Charles Kean's great productions at the
Princess's Theatre. She afterwards obtained other

London engagements, and while yet quite young had made an important position for herself. It was not, however, until she became associated with Sir Henry Irving at the Lyceum that her greatest successes were obtained.

Successes were obtained.

Tertullian, Quintus (circa 150-230), a Father and writer of the Latin Church, lived first in Cathage and then at Rome, and became a Montanist in 203 after conversion to Christianity some years pre-viously. His chief work was his Apologeticus, a defence of Christianity called forth by the persecutions

defence of Christunity called forth by the persecutions under Sentimus Severus.

Tesla, Mikola (b. in Servia, 1857), electrician and inventor, was for a time connected with the Telegraph Engineering Department of the Servian Government; later he was in Paris, engaged in electric lighting experiments; and in 1882 went to America (where he has resided ever since), and was associated with Edison for a time. He has been an active promiser of electrical developments.

Tetrazzini, Luissa, a prima donna who sprang into sudden prominence in 2007 by her wonderful singing at Covent Garden. She was haled as a second Patti, and achieved a brillant success. Her first appearance in opera was made at Florence, of which city she is a native, in 1896. Later she made a

tour in South America, and after her short season in London at the end of 1977 went to the United States, and was received with enthusiasm.

Tatsael, John (1455-7510), the German Dominican nonk and Inquisitor, the scandal of whose sale of indulgences roused Luther to publish his memorable ninety-five theses at Wittenburg in 1517, and led up to the Reformation.

Thackeray, William Makepeace (1811-1863), was born in Calcutta, brought to England while young, and educated at the Charterhouse School in London and at Cambridge. His first ambition was London and at Cambridge. This has amounted was to be an artist, and it is interesting to know that he at one time seriously proposed to be an illustrator of Dickears's works, but he never got much beyond the amuteur stage in pictorial work, the drawings he made to illustrate some of his own novels being amteur stage in pictorial work, the drawings he made to illistrate some of his own movels being crude and inefficient. As a humorist and novelist he, however, attained very high rank. To Fraser's Magasius and to Punch he contributed a large number of buriesques, sketches, poems, etc., all ful of spirit and fun; but it was not until later life that his greatest successes were won. Vanity Farr, which was issued in monthly parts between 1646 and 1848, proclaimed him a master in the realm of fiction. Prodennis, Emmod, The Newcomes, The Verginians, Philip, and Lovel the Widower make up the main of his finished stores, and English literature is all the nether for them. He edited the Cornhul Magasine from the first number, January, 1850, for a few years, his most notable contributions being his Romadabout Papers. His Yellonylush Papers and The Book of Snobs (republished from Punch) were widely read and admired; and the lectures he delivered in America on "The Four Georges" were pungently powerful. He was buried at Kensal Green, and his memory is honoured by a bust in Westmanter Abbey.

Thalles of Milletus (cruz 404-546 BC), a famous geometer, astronomer, and philosopher, and one of the seven wise men of ancient Greece. The earliest of the loman philosophers, he created a sensation by the pre-calculation and prediction of an eclipse of the sum, winch took place 585 E.C., and he looked upon water as the principle of all material things.

Thanistoles (cruz 504-49 E.C.) was chief archor of Atheus, and when Xerxes assailed Greece commanded the Atheman filet with such vigour and ability that the invader was defeated at Salamis Not long afterwards he was sectised of corruption

manded the Athenian ficet with such vigour and ability that the invader was defeated at Salams. Not long afterwards he was accused of corruption and fied to Persia, where, shietled by Artaxeraes, he lived for the remainder of his days.

Theocritus (285 247 H.C.), one of the great Greek poets, was born at Syracuse and lived for many years at Alexandria. We are only enabled to judge of his genus by the thirty "Idylls" which have comedown to us bearing his name, and a number of "Epigrams." Most of these works are conceived in the true neatron laying.

"Epigrams." Most of these works are concured in the true pastoral spin extress, who married Justinian circa 523, and four years later became Hyzantine empress, taking a leading part in the administration of the realm. She died in 548

Theodore, King of Abyssinia (1816-1868), a warilke and cruel despot, whose imprisonment of the British Consul, Cameron, led up to the expedition of Napier to Magdala, and the storming of that fortress in 1868. Unou be defeat by the British Chedore

Upon his defeat by the British, Theodore committed suicide.

committed suicide.

Thacoforest (area: 390-457), a Greek theologian and historian of the school of Antioch. He wrote commentaries, lives of ascetics, and controversial works, and continued the history of Euveblus.

Theodoric the Great (454-536), a very celebrated King of the East 60ths, born at Pannonia. In medieval German romance he is renowned under the name of "Dietrich von Bern," and had a reputation for good government, akin 156 that ascribed in England to King Alfried. He was the founder of the Gothic Kingdom of Italy.

Theodosius the Great (246-395), was Roman Emperor of the East for nearly twenty years. He gained victories over the Goths, and the year before his death became sole Emperor. Noted in eccle-

siastical history for his conversion to Christianity, and for his submission to the penance imposed by St. Ambrose.

sand to this aubmission to the penance imposed by St. Am his aubmission to the penance imposed by St. Am his aubmission to the penance imposed by St. Am his aubmission to the Lycum at Athens, holding the position thirty-five years, and devoting himself mainly to the elaboration to the Lycum at Athens, holding the position thirty-five years, and devoting philosophy. His History of Plante and the elaboration of the Market and Characters are the best known of his writings, and St. Thierry, Jacques N. (1795-1895), was a distinguished French historian, best known in this country by his History of the Norman Conguest.
Thiers, Louis Adolphe (1797-1877), a French statesman and man of letters, was born at Marsellles, went to Paris after the fall of the Empire, and there began his career as an author by publishing (1837-1837) his History of the French Revolutions, shortly afterwards entering political hife as Deputy for Aix. Under Louis Philoppe he held various prominent offices, and was Forcing Minister until a disagreement with the King caused him to resign. He was then out of office for 2 considerable period, and occupied his leture in writing the early volumes of his finest work, The History of the Consulate and the Empire. After the cost of "dust he spent some time in exile, and did not again take part in legislative work until 1864, when he was elected for the department of the Seine. After Sedan he rose rapidly to the chief position, devoting his whole energies to the establishing of peace. He put down the Commune, and restored order and prosperity. Was President from 1871 to 1873.

Thirlwall, Bishop Connop (1797-1875), an erufrom 1871 to 18

from 1871 to 1873

Thirlwall, Bishop Connop (1797-1875), an erudite English churchman, critic and historian, who was thrity-four years Bishop of St. Davids, and wrote a number of notable essays and poems, also a History of Greece, and was associated with Hare in the translation of Niebulr's History of Rome.

Thompson, Sir Edward Baunde (b. 1840), Director and Principal Librarian of the British Museum 1888-1909. Has edited numerous ancient chronicles and palseographical publications, and written much respecting early English hierature and history, as also on Greek and Latin subjects.

Thomson, James (1700-1748), was a native of

history, as also on Greek and Latin subjects.

Thomson, James (1700-1748), was a native of Ednam, in Roxburghshire, settled in London in 1793, and in the following year published "Winter," the first section of his fanious poem, "The Seasons," which attracted much favourable attention. "Sumer," "Sying," and "Autum" followed, and increased his reputation. His other works included "The Castle of Indolence," a poem of lare magniative power, "Liberty," and a masque on the subject of "Altred," written in collaboration with his frend Mallet. It is in "Altred" that "Rule Britannia" appears. He had a person of £ face a year, and drew appears. He had a pension of Aroa year, and drew 4.300 a year as Surveyor-General of the Leeward Islands, the duties of mich were performed by deputy.

Thomson, James (1834-1882), a Scottish poet of

considerable power, who attracted much notice by the publication of "The City of Dreadial Night" in 1874, and followed that work up by other volumes entitled "The Voice from the Nile" and "Insonina."

Thomson, Sir Joseph (b. 1856), Cavendish Pro-tessor of Experimental Physics at Cambridge, and a restor of Experimental Physics at Californite, and a great chemist and electrician, who has written learnedly on vortex rings, magnetism, of namics and physics generally. Awaided the Nolvel prize nor distinction in Physics in 1900. President, British

distinction in Physics in 1900. Firsting, Sent-Association, 1900.

Thoreau, Henry D. (187-1869), was a natural philosopher and nature-worshipper, who forscok trade and devoted himself to a primitive kind of existence in the American woods. He was the friend of, and for a time lived with, Emerson, but in 1845 adopted his carefer of solitude, and pursued those studies of nature which afterwards gained him a high reputation. His Walden, or Life in the Woods, its winders hook.

studies of nature which atterwards gamed fills a light reputation. His Walden, or Life in the Woods, is a unique book.

Thornbury, G. Walter (1828-1876), an admirable miscellaneous and archaeological writer, whose books on Shakespeart's England, British Artists from Hoparth to Turner, Lays and Legends, Art and Naure at Home and Abroad, Life in Spain, Songs

of the Cavaliers and Roundheads, and The Buccausers, were remarkable for breadth of sympathy and facility of expression. He commenced Old and New London for Cassell's, but died after writing the

Mew Londow for Cassell's, but died after writing the first two volumes, leaving the late Edward Walford to carry the task to completion.

Thernhill, Bir James (196-1734), was an eminent English painter who rose to great favour in the time of George I. Many of his decorative pictures are to be seen in St. Paul's, Hampton Court Falace, and Greenwich Hospital. He sat in the House of Commons for Weymouth for a number of years, and Hogarth studied under him.

Thornycroft, Bir John Issae, Knight, LL.D., F.R.S., was born at Rome in 1833, and founded the well-known Thornycroft shipbuilding works at Chiswick in 1865, where he built many noted Signification of the more provided much attention to the improvement of motor vehicles. He was knighted in 19,22

Thornycroft, William Hamo, R.A. (born London, 1850), an eminent modern English sculptor, has produced some of the lext known sculptures of recent times, including the Gladsheim Memorial, the

recent times, including the Gladstone Memorial, the statue of General Gordon in Tratalgar Square, of Queen Alexandra in the Royal Exchange, Lord Granville in the Houses of Parlament, Cromwell at Westmanter, and John Bright in Rochdale. Among his creative examples are "The Mower," "Lot's Wife," and "Teucer," the last named being bought by the Chantrey Trustees.

by the Chantrey Trustees.

Thorwaldsen, Bertel (1770-1844), the famous Danish sculptor, who-born at sex-was in his youth assistant to lus father, a slup's carpenter, but showing a special artistic capacity was sent to the Copenhagen Art Academy, where he won a scholarship and wis sent to Kome. There he studied under Canova, and in the many years that he continued to reside in Rome produced some of the finest sculptures of his day.

Thusyaldde (471-407 B.C.) was a distinguished Greek historian, who was put in command of a force in the Peloponnesian War, but not having acquited himself to the satisfaction of his superiors, he was exiled, and lived for twenty vears in obscurity.

exiled, and lived for twenty years in obscurity, occupying himself with writing the history of the war in which he had himself taken part, producing

one of the most graphic historical narratives known.

Thurlow, Edward, Lord (1730-1806), was one of
England's most celebrated Lord Chancellors, filling that office for thirteen years. It was said that "no one was ever so wise as Thurlow looked."

one was ever so wise as Thurlow looked."

Therius, Claudius (as B.C.-37 A.D.), was the second Euperor of Rome, a man of undoubted capacity, whise household affairs were notorrously involved and wicked. He was reserved and tactium, however, and not strong enough to withstand the plottings of Scjanus, whose saving exercise of power in the Emperor's name during the last years of his reign turned Rome into a shambles.

Tickell, Thomas (1686-1740), was born in Cumberland and educated at Oxford, and had the good fortune to win the friendship of Addison, who, in 7917, obtained for him an Under-Secretaryship of State. Tickell figured as a poet, contributed to the Spectator, and altogether seems to have prospered

State. The state of the state o

real distinction.

Tieck, Ludwig (1773-1853), a renowned German poet and novelist, and one of the founders of the romantic school. Several of his romances are works romantic school. Several of his romances are works of undoubted power—Fast Etcher. The Runneberg, and the Pictures, among others—and his influence upon a special literary development was very marked. His younger brother, Christian Friedrich Tieck (1776-1851), achieved considerable reputation as sculptor in Berlin, and was particularly successful with his portrait busts of Goethe, King Ludwig of Buvaria, Lessing, and many other celebrities.

Tillotson, Archop, John 1659-1694, was born at Sowerby in Yorkshire, studied at Cambridge, and, becoming rector of Keddineton in 1663, developed great

pulpit power. Securing the appointment of preacher at Lincoln's Inn, he soon extended his fame, and joined the ranks of the controversialists, "Popery and "Atheism" being the main objects of his attacks. In 1672 he was Dean of Canterbury, and in 1674 became Archibishop. He was fearless in the expression of his opinions, and possessed much influence with William and Mary in his later years.

Tilly, Count (1559-1622), a Beigian-born soldier, who achieved fighting fame in the Spanish, Bavarian, and Imperial Service during the Thirty Years' War, in which he became generalissimo in 1692. In thirty six battlets Tilly proved victorious, but was defeated by Gustavus Adolphus near Leipsic in 1631, and fell mortally wounded before the same foe the year following at Lech.

Timoleon of Corinth (415-337 B.C.), the illustrious

following at Lech.

Timoleon of Corinth (415-337 B.C.), the illustrious Greek general, who delivered Syracuse from Dionysius, defeated Hisdinibal and Hamilicar, and brought Sicily into prosperous tranquility. He was as virtuous as valorous, and died greatly estremed, after suffering blindness for some time.

Timon of Philus, a noted Greek sceptic philosopher, poet, and dranatist, who flourished about 280 B.C. Another Timon, of Athens, known as "the nilsanthrope," is mentioned by Plutarch, from which source Slukespeare doubtless obtained the groundwork for his play "Timon of Athens.

groundwork for his play "Timon of Athen."

Tindal, Matthew (1656-1733), a noted English
Delst, who was converted from Protestantism to
Romanism and back again to Protestantism. He published many controversial works, before attract-

published many controversual works, before attracting more direct public attention by his dialogue, Christianity as old as the Creation—which has been called the "Bibba" of Destin—and was answered by Bishop Butler, Leland, Conybeare, and others.

Tintoratio (1518-1591), the famous Venetian painter, whase numerous religious pictures are of great value and interest, revealing fine imaginative force and a bold colouring. Framples of his work are to be met with in most of the great European galleries. His "Slaughter of the Innocents," Worship of the Golden Calf," "Crucifixion," and "Beishazzar's Feast," are subjects that are familiar because of the frequency with which they have been engraved. His real name was Jacopo Kobusti, and he received the cognomen of Tuntoret, or Tintoretto, from his father avocation, that of a dyer, tather avocation, that of a dyer,

Tinworth, George (1843-1913), was brought up to the business of a wheelwright, but showing a strong bent for wood-carving, studied at the Lambeth School of Art and at the Royal Academy, and quickly developed considerable talent, winning numerous medals at home and abroad. For many years he was modeller to the Doultons, Lambeth Pottery.

medals at home and abroad. For many years he was modeller to the Doultons, Lambeth Pottery. His work is to be seen in immy cithedrals, churches, and public buildings, and is greatly prized for its teauty of conception an irrefinement of executives, and public buildings, and is greatly prized for its teauty of conception an irrefinement of executives, and so not flyder Ali, when he sacceeded in 752. Tippoo fought with the French against the English in India, and concluded the Treaty of Baingalore in 1742. On the renewal of the war in 1790 he was slain at Seringapatam.

Tiresias, the blind Thelan soothsayer of Greek legend, alleged to have been stricken sightless whilst accidentally looking upon Athena bathing, receiving the gift of prophecy from the relenting goddess, who was unable to restore his vision.

Tischendorf, L. F. C. won (1815-1874), a celebrated German Protestant Biblical scholar and critic, and Professor at Leipsic. He was particularly learned in ancient MSS, and in the course of investigations in the East and cleswhere discovered the famous Sinaitic Codex, and many other invaluable scriptures illuminative of the Bible.

Titian (1477-1796), one of the greatest of painters, was born at Castore, and while a child was taken to Venice to live with an uncle. Revealing remarkable artistic talent, he was placed first under, and then with, the Bellinis, and made his first easays in painting for the public in conjunction with Gorgione, whom he soon surpassed. In 1511 he was at Fadua, where he painted some notable freecoes; in 1512 he

was back in Venice, with a studio on the Grand Canal, employed on important commissions. From this time forward he was in great demand, and exercised his marvellous powers almost to the end of his life, dying at ninety-nine of the plague.

Titians (or Tlatjana), Tareas, 183:-1877, was a famous operatic prima donna and concert-room singer, who, from 188 to the time of her death, was constantly before the public, and achieved very high distinction. She was the leading artiste at Her Majesty's Opera House, London, for many years, and filled to great variety of parts with almost unvarying success.

and filled is great variety of parts with announced varying success.

Titus (40-81), the Roman Emperor, and son of Vespasian. Attained great renown by his successful part in the Jewish war which terminated in the capture and destruction of Jerusalem by him, a feat of arms which is celebrated in the Arcli of Titus still including in Panno On his return he took upon of arms which is celebrated in the Arch of Titus still standing in Rome. On his return he took upon himself the practical control of government, and on the death of his father in 79 succeeded to the Imperial purple. Up to that time he was deemed a profligate and a tyrant, but no sooner was he in sole power than he exerted himself to the utmost to please the people, completed the Colosseum, gave plenty of exhibitions, built splendid baths, and otherwise made himself popular. He, however, only resigned two years. reigned two years

reigned two years.

Tooqueville, Alexis de (1805-1859), an able
French statesman and writer, who was educated for
the law, and was at one time Juge d'Instruction at
Versailles. He was sent cut to America in 1831 to
investigate the Penitentary system, and while there
he made a very close study of the conditions of
popular government in the United States, and on
his return to I-rance published his celebrated beok
Democracy in America. He was a member of the
Chamber of Deputies fur some years, and when
Louis Napoleon was President of the Republic
became Foreign Minister. He did not associate
himself with posities after the cone of class.

himself with politics after the coup d'état.

Todhunter, Isaac (1820-1884), a great mathematician, and the author of a senes of text-books which have had a very extensive vogue. He was the Senior Wrangler of his year at Cambridge, and perhaps his most valuable works were his Researcher on the Calculus of Variations and his History of the Theory of Elasticity and the Strength of Materials.
Todleben, E. Ivanovitch, Count (1818-1884), a

noted Russian general and military engineer who defended Sebastopol against the Allies, took charge of the Siege of Plevna in the Turkish War of 1877, was employed in the reduction of the Bulgarian fortresses in the year following, and later served as Gevernor of Odessa. He wrote a book on the

Crimean War.

Toge. Admiral, Count (b. 1819), the most con-spicuous navid commander of modern times. Was a spicuous hava commander of modern times. Was a student at Greenwich Naval College, where he obtained a complete mastery of British methods. In the war between his country and China he did splendid service, and on the outbreak of the conflict between Japan and Russia in 1904 speedily "got in the first blow" on the Russian feet, and achieved a series of brilliant victories that resulted in the complete destruction of the enemy's ships. Raised to the

rank of Count in 1907.

Tolatol, Count Leo (1828-1911), was the most distinguished personality in modern Russian literature. Born of a good family, he was for a time in the army, but was so greatly moved by the trials and sufferings but was so greatly moved by the trials and sufferings of the people that, out of pure sympathy of heart, he was impelled. "to take up his pen and write." At twenty-four he published his Chitcheed, and in 1854, while in camp in the Crinca, wrote his Tales from Selastopol, which procured him considerable therary fame. Later on he was a persistent advocate of progressive ideay, and, before the Emancipation Act for freeding all Russian series was enforced, he himself had given the series on his own estate their, freedom. In 1862 he married, and settled down to a quiet country life, shortly afterwards publishing his War and Peace and Anna Karpinna. In more secent years Tolstoi developed a sort of religious

mysticism. Among his later works are The Power of Darkness, The Kreutzer Sonata, The Cassacks, The Resurrection, and The End of the Age. Cons. Walfe (1763-1798), the Nationalist agitator who founded the Society of United Irishmen in 1791, was captured on board a ship of a French squadron which he had induced to sail into Bantry Bay, and sentenced to death for treason, but escaped the gallows by suicide Tone,

sentenced to death average for the sentence of took Holy Orders, studied for the Bar, tried to enter Parliament, and became a ferce controversialist on the topics of his time. He in turn attacked Lord Mansfield, Wilkes, Junius, and Lord North, and frequently got himself into trouble by the violence of Mansfield, Wilkes, Junius, and Lord North, and fraquently got humself into trouble by the volence of his language, being imprisoned on one occasion for libeling the King's troops in Amenca. It was only in 1782 that he adopted the surname by which he became thenceforth known, in consequence of inhenting a property left to him by Mr. Wilham Tooke, to whom he had rendered some legal service. In 2801 he was returned to the House of Commons as member for Old Sarum, but after stiting in one Parliament, he was excluded by the passing of a law rendering clergymen ineligible for membership. The book on which his literary reputation was chiefly based was The Diversions of Purity, in which a great amount of learning is mixed up with much politics and some pedantic, etymological parade.

Toole, John Lawrence (1832-1904), perhaps the most popular English consedian of his time. On leaving school he went into the office of a wine merchant, but at twenty adopted the actor's profession, making his first appearance at the Haymarket Theatre, afterwards playing with everincreasing success for nearly half a century all over the United Kingdon.

Torquemada, Tomas de (1420-1498), the chief officer of the Soaiush Inquisition oversinsed under

Torquemada, Tomas de (1420-1498), the chief officer of the Spanish Inquisition organised under Ferdinand and Isabella. He was a Dominican prior who showed great ferocity of disposition and horrible inventiveness in the pursuit and punishment of "heretics."

Torricelli, Evangelista (1608-1647), the famous Iralian mathematician and astronomer, who was Galiles's pupil, and became Professor at Florence. He invented the barometer and improved both the

He invented the caronieter and improved both the microscope and the telescope, making besides many important physical-science discoveries.

Tourquenieff, Ivan, or Turquenieff (1818-1883), a clever Russian novelist and writer, who suffered imprisonment for his furless expressions of political interpretability to the contraction. opinion, but contributed by his pen materially to the emancipation of the serfs. The most striking of his stories "with a purpose" are A Nest of Nobles, Fathers and Sons, Smoke, and The Deary of a Superfluons Man.

Superfluons Mess.

Toussaint-L'Ouverture (1743-1803), negro leader in St. Domingo; after the revolt recognised as general-in-chief of the island by the French; carried out many reforms; established, an independent republic in 1801; resisted Bonaparte's attempt to re-establish slavery; surrendered to the French in 1802; died in prison in Pars in the year following.

Toynbee, Arnold (1852-1883), the son of an international surgeon, Joseph Toynbee (1816-1866), who published a very valuable treative on Diseases of the Ear. Arnold Toynbee, after graduating at Oxford, devoted himself to practical philianthropy and social reform. From his self-denying efforts sprang the settlement in East London—Toynbee Hall, Whitechapel—avsociated with his name and the cause he gave his life te, for he died of overstrain in his work amongst the poor.

in his work amongst the poor.

Trajan (rircs 5-117) was Roman Emperor from 98 to his death, and led in person the imperial armies to victory immany lands. The famous Trajan column in his Forum Trajani at Rome was erected to celebrate his victories over the Dacians. Dacia, Armenia, and Mesopotamie were all brought under his way. His rule was enlightened, and he was

held in great honour by the people.

Tree, Sir Herbert Beerbohm (b. 1853), the London actor-manager who has accred successes at the Haymarket and His Majesty's Theatres, and whose ability as a character-actor has earned him a great reputation in very many dissimilar parts. His later productions have included many Shakespearean revivals, and a number of original pieces and adaptations from novels, among which may be enumerated "Oliver Twist," "Colonel Newcome," "Edwin Drood "(1908). He was knighted in 1909. **Treloar, Sir William, Bark.** (b. 1843), has for many years been a promunent member of the London Cornoration. Was elected to the Common Comment.

many years been a prominent member of the London Corporation. Was elected to the Common Council in 1881, became Alderman in 1892, was Sheriff in 1893, and Lord Mayor 1905-1907. Knighted in 1899, Bit 1907. His work for the relief of crippled children has been misstent, long-continued, and highly beneficial.

Trenon, Richard Cheneviz (1807-1886), Anglican ecclesiastic, poet, scholar, and miscellaneous writer; a divine and prelate of distinction and an author of outstanding ability. Born in Dublin and educated at Harrow and Trainity College. Cambridge has were

at Harrow and Trinity College, Cambridge, he was Hulsean Lecturer in 1845, and a Professor at King's Fulsean Lecturer in 1845, and a Professor at King's College, London, in 1847. Dean of Westminster in 1856, he was preferred to the Archbishopric of Dublin eight years later, and held the Prinacy of Ireland for a decade. His publications included volumes of "Poems," "Parables," "Miracles," "Lectures on Mediaval Church History," and

numerous philological works.

numerous philological works.

Trevelyan, Rt. Hon. Sir George Otto (b. 1838), was educated at Harrow and Cambridge, and spent some years in the Indian Civil Service. In 1809 entered Parliament as a Liberal, and in 1868 was Civil Lord of the Admiralty in Mr. Gladstone's first Ministry. In 1880 he was l'arliamentary Secretary to the Admiralty, and in 1882 Chet Secretary for Iroland. Was afterwards Chaucellor of the Duchy of Lancaster, and Secretary for Scotland, but sevarated Iroland. Was afterwards Chaucellor of the Duchy of Lancaster, and Secretary for Scotland, but separated hunself from Mr. Glackstone on the Home Rule question. Was again Secretary for Scotland from 1892-1895, and retired from political life in 1897. As a writer Sir George has attained no mean reputation; his Life and Letters of Lord Macaulay to one of the best of modern examples of hospraphy, and since leaving public life he has made his mark as an historian by his book on the American Revolution. He is also author of a Life of Charles Tomas Fac. of 2 with rorduction entitled The Fames Fax, of a witty production entitled The Ladies in Parliament, and Interludes in Verse and

Peetry, published in 7005.

Trewes, Sir Frederick, 15t Bart. (b. 1853), a skilful surgeon, who was Sericant-Surgeon-in-Ordinary to King Edward VII. from 1901, in which capacity he successfully operated upon the King for perityphlitis prior to the Coronation. Retired from practice in 1993. Has placed his skill at the service of the military authorities on many occasions, and was Consulting Surgeon on the spot to the forces in

was Consulting Surgeon on the spot to the forces in South Africa in 1900. Sir Frederick was made K C.V.O. in 1901, and created a baronet in 1902. Trevithlek, Richard (1971-183), a Cornish minemanager's son, who won enduring faine by the invention of the road-locomotive, putting upon the highway on Christmas Eve, 1801, the first steam-propelled vehicle for the conveyance of passengers; starting another in London streets in 1803, and applying the idea to a transline lald in Wales the year following. The Stephensons took up Trevithick's principle, and hence came the railway as "sell as road locomotion. He constructed, in 1808, a curving railway near where Euston Station now stands in railway near where Eusten Station now stands in London, carrying passengers round circular sweeps at twelve to fifteen miles an hour by the traction of his locomotive.

ms locomotive.

Trollope, Anthony (1815-1882), was the second son of Mrs. Trollope (1776-1862), the novelist, and himself the author of many popular novels. His Barchester series, in which he depicted a number of scenes of higher clerical life with great fidelity and success-Framicy Parsonage, Barchester Towers, The Small House at Allington, and Orley Farm—were among the best of his stories.

the best of his stories.

Tryon, Admiral Sir George (1832-1893), was a distinguished English naval officer, who rose to high rank, and in 1891 was appointed to the command of the Mediterranean feet. A mistaken order caused a collision between his flagship and another vessel in 1892, during some naval manuscures, when the Admiral and many of the crew lost their lives.

Tachalkovsky, Peter Ilitch (1840-1893), a Russian musical composer of great force and originality, whose orchestral pieces are full of subtle beauties and grace. He was professor at the Conservatoire of St. Petersburg from 1866 to 1876.

Tullius, Berwius, was, according to tradition, the sixth King of Rome, who reigned 576-534 B.C., and reformed the constitution and extended the city limits, building also the Servian wall.

Tulloch, Dr. John (1882-1886), an eminent Scottish Divine, and Moderator of the Isstablished Clurch in 1878. He was educated at and became Principal of St. Andrew's, and was the water of learned philoso-

reys. He was educated at and became l'inicipal or St. Andrew's, and was the water of learned philosophical and historical works, and a man of much influence upon the religious thought of his time.

Tupper, Sir Charles, Bart., G.C.M.G. (b 1821), for 35 years member of Nova Scotian and Canadian Parliaments, Premier of the former, 1864-7; of the latter m 1806; High Commissioner in England 1882 at and 1888-8; whilehighed his howership at all.

latter in 1846; High Commissioner in England 1883 7 and 1888-96, published his biography in 1444.
Tupper, Martin Farquhar (1810-1889), a poet of some pretensions, who abandoned law for literature, and is best remembered by his "Proverbial Philosophy" (three senes) at one time widely read.
Turenne. Vicomita de (1611-1675), was a famous French commander and Marshal of France, who was highly successful in the Thirty Years' War, when he commanded the United French and Swedish forces, between killed at \$2.52path, and his remains were

commanded the United French and Swedish forces, He was killed at Si-brath, and his remains were translated to the Church of the invalides in 1800. Turgot, Anne Robert Jacques (1972, 1973), a political reformer and firmner of France, who held high positions of State, advocated many of the measures which the Revolution afterwards scorred, and was dismissed from the position of Controller General of France by the King in consequence, Turner, Joseph Mallord William (1775-1851), vas the son of a London burber, but while quite a

vas the son of a London birbor, but while quite is clad showed the possession of aristin genus. In 1789, after some meach moons schooling, he entered the Royal Academy classes, and soon began to make birdaay, being elected A.R.A. in 1799, and four years later R.A. Of his larger pictures may be mentioned "The Sim Kising through Vapour," "Crossing the Blook," "Dido building Cardiage," "The Fighting Temerare," and "Calus Per." Ruskin in his Alodorn Painters wrote with great eloquence and entitud insight regarding Tumer's work, and brought about a fuller appreciation of his genins. He was never married, and took little work, and brought about a fuller appreciation of his genins. He was never maried, and took little interest in anything outside his art. He left the oll paintings and drawings he had preserved to the National Gallery. He bequeathed a fortune of sonic £150,000 for founding an asylum for male decayed of kin, who succeeded, owing to the want of clearness in the testator's wording of his desire, in obtaining the greater part of the estate, with the exception that £25,000 went to the Royal Academy, and the whole of the spectures and drawings to the nation. nation.

Turner. Sharon (1768-1847), a painstaking writer whose History of the Angle-Sazons (in four volumes) and History of England, published later, were works of considerable literary value.

Tussaud, Madame (1760-1850), a Swiss who, while practising the art of modelling in wax in Paris at the time of the French Revolution, made her at the time of the French Revolution, made her escape to England and set up a small exhibition of wax figures in Marylebone Road, which became such an attraction that she was encouraged to extend it. The present Tussaud collection is the result. Twain, flark. (See Clemens, Samuel L.)
Tweadmouth, Edwd. Marjoribanks, 3nd
Baron (1849-1909), a prominent Liberal peer who served as Whip to his Party when a member of the House of Commons, and was in turn Chancellor of

served as Whip to his raity whom a House of Commons, and was in turn Chancellor of

the Duchy and Lord Privy Seal under the Earl of Rosebery, and First Lord of the Admiralty under Sir H. Campbell-Bannerman.

Tyler, Was, or "Wat, the Tyler," stands out in Britain's historical record as the leader of the peasants' revolt of Richard II.'s time against the iniquitous poll-tax. Over 100,000 peasants followed Tyler into London in June, 1981, and the king met them in Smithfield and made promises of redress that were never fulfilled. It was at this meeting that Sir William Walworth, Lord Mayor of London, stabled Tyler with a dagger, and afterwards handed him over to his followers to kill outright.

Tyndale, William (1484-1536), was educated at Oxford, and conceived a strong desire to be the medium of presenting the Bible to his countrymen in their own language. He set about this work with great earne-tness, and for some years, first in

great earnestness, and for some vears, first in England and then in Germany, continued his task, completing the translation of the New Testament at Wittenburg, where he was associated with Luther. This version was first published at Antwerp, and then found its way to England, where it was publicly burnt at St. Paul's Cross. Tyndale afterwards was associated with Miles Coverdale in a translation of associated with wither Covertate in a transation, the Old Testament, but only completed the Pentateuch and the book of Jonah. Antwerp was Tyndale's retreat during this later period, and in 1535 he was arrested for heresy and put to death by strangling

arressen for hereby and put to death by stranging and burning.

Tyndall, John (1820-1893), was an eminent scientist who, in 1852, became Professor of Natural Philosophy at the Royal Institution, a position which he retained until 1801. His books on Leght, Sound, and Head are well-known text-books. He ranked amongst the foremost thinkers and writers of his time, and was a zealous materialist. Professor Tyndall was an inveterate mountaineer, and much noted for his tireless investigations in magnetism.

treless investigations in magnetism.

Tytler, Patrick Fraser (1701-1849), was a Scottish listorian. Was born at Edinburgh, and after a course of education at the University, devoted himself largely to literary work, producing a number of miscellaneous biographical and historical studies, and finally, at the suggestion of Sir Walter Scott, he entered upon the chief work of his life—that of writing the History of Scotland, which is a monument of paints they are reserved in nine volumes. of painstaking research in nine volumes.

U

Udal, John, was a Furitan Divine who died in prison in London, in 1592, under condemnation of heresy in connection with his writings for the Marprelate press. Was the author of the first Hebrew graininar printed in English, entitled A Key to the Holy Tongue.

Udall, Nicholas (1595-1556), was a quaint humorist, whose rollecking comedy, "Ralph Roister Doister," is the first English sample of that kind of composition. He was for a time head-master of Eton, and was patronised both by Henry VIII. and Mary.

Uhland, Johann Ludwig (1787-1862), a German poet who won great rame by his ballads and songs He caught much of the old ballad spirit, and invested his themes with a weirdness that made them very Impressive; most of them have been

them very impressive; most of them have been translated into English by Longfellow, Skeat, and others. Uhland was for a few years Professor of German Language and Literature at the Tubingen

German Lauguage and Literature at the Tubingen University.

Unwin. Prof. William Cawthorn F.R.S. (b. 1888), an eminent cavil engineer and physical scientist, and authority on hydroulics and bridge-construction, concerning which he has read before the Royal Society and British Association important papers and published various learned works. He has been professorially connected with the City and Guilds of London Institute and the Royal Indian Engineering College.

Ursula, St., is said to have been an English princess, who with 11,000 virgins set out on a pilgrimage, but compelled by a fierce storm to take

refuge in Cologne, was there put to death with her following by an army of Huns. She is a Saint of the Roman Calendar, and relics exhibited at the Church of St. Ursula at Cologne, for which miraculous powers were claimed, have been the object of veneration by counties pilgrims.

Usher, or Usaher, Bishop James [1581-2565], was born in Dublin and educated for the Church. He was Bishop of Meath from 1620 to 1624, and in the later year was created Archishep of Armagh, which post he held until the Irish rebellion of 1641 forced him from the country. Charles I. then appointed him to the see of Carlisle, but the disorder caused by the Civil War prevented his taking up the position. He was then made Preacher at Luncon's Inn, and while holding that position grote the theological works on which his reputation grote the theological works on which his reputation wrote the theological works on which his reputation chiefly rests. His Annales Veteris et Novi Testament was a chronological outline of the world's

Uvaroff, Gount Sargal (1785-1855), Russian statesman and scholar President of the St. Peterburg Academy of Science, and Minister of Public Instruction. Did much to promote higher education, and wrote some useful works on language, literature,

and politics.

Yalentia, Arthur A., 11th Yiscount (b. 1843). Premier baronet of Ireland, a Conservative statesman who held the office of Comptroller of the Royal

who held the office of Compitoller of the Royal Houveloid 1898-1905, and has done service as one of the Farliamentary Whups of his Party. Interested m local government and served with distinction with the Yeemanry in the South African War.

Valentine, St., was a Christian martyr of the reign of the Emperor Claudius (creaz 270). His festival was commemorated on February 14, before Gregory the Great's time. The custom of sending valentines had its origination in a healthen practice associated with the worship of Juno about this date in the calendar, and had no connection with the saint. It was believed anciently that the brids began annually was believed anciently that the birds began annually to pair on the day upon which Juno was honoured as referred to, and Juno and Valentine became accidentally interwoven in one popular observance which underwent variant development.

which inderwent variant development.

Yamberg, Arminius (1833-1073), a celebrat of
Orientalist and traveller who mastered many
languages and travelled in many lands. His works
include Travels in Central Asia, Wanderings
and Adventures in Persua, Manners in Oriental
Countries, The Tarkish People, and The Coming
Struggle for India.

Yanbrugh, Irene (Mrs. Dion Boucleault) and
Yanbrugh, Irene (Mrs. Arthur Bourchier), are
the stage names of two Loventra and talented London

the stage names of two favourite and talented London actresses, the daughters of the late Rev. R. H. Barnes, who was a Prehendary of Exeter Cathedral.

Harnes, who was a Prehendary of Exeter Cathedral, Both have played hamp parts with charm and distinction in coincidy and draina.

Yanbrugh, Bir John (1666 1725), was a prominent architect as well as a successful drainatist. Among his architectural trumphs may be mentioned the palatial edifices of Bleinheim and Castle Howard. Of his drainants successes it is enough to mention "The Relapse," "The Provoked Wife," and "The Confederacy," the two former of which were especially successful.

successful.

**Yanoouver, George (17:8-17:8), a British navigator who served under Captain Cook in his second and third voyages, and later undertook an expedition to the Pacific, during which he explored the Gulf of Georgia and the Straits of San Juan de Puca, as also the shores of what later became known as Vancouver Island. He left an interesting narrative of his discoveries, which was published after his death.

**Yanderblit, Cornelius (1794-1877), a noted American merchant and railway speculator, who accummulated a fortune of twenty millions sterling. His son, William Henry Vanderblit (1821-1894), inherited the bulk of the wealth of the elder railway

king's wealth, and added thereto by operations in the same direction.

the same direction.

Yan Dyck, or Yandyke, Sir Enthony (15091641), was born at Antwerp, and after studying under
Ruhens went to Italy and there made a name as a
portrait painter. In 1629 he came to England on the
invitation of Charles I., but only remained a short
time; in 1621 Charles prevailed upon him to return,
made him a knight, granted hun an annuity, and he
became the Society painter of the day.

Yane. Sir Harry (1612-1662), was a prominent

became the Society painter of the day.

Yane, Sir Harry (1612-1662), was a prominent statesman and diplomatist who at one time was governor of Massachusetts. In 1640 he was elected to the British Parliament, and one of the Council of State under Cronwell. At the Restoration he was arrested as an enemy to the State, and ultimately beheaded on Tower Hill.

Was Transport. Advanced (1622-1621) a furnus Dutch

Yan Tronp, Admiral (1597-1653), a famous Dutch commander who after many victories over the Spanish feet was opposed to that of England during the Com-monwealth, and fought gallantly in five encagements, being killed in the last encounter with Monik's slips

being killed in the last encounter with Monk's ships Yasari, Glorgio (1521-1524), was born at Arezzo, and was eminent alike as an architect, painter, and a writer. His fame chiefly rests, however, upon his well-known work The Lirves of the Most Excellent Paniers, Scutpors and Architects.

Yasoo de Gama. (See Gama.)

Yashti, queen of King Ahasuerus, who, according to the Scripture, lost the royal favour and was divorced, being succeeded by Oueen Esther.

the Scripture, lost the royal avour and was divorced, being succeeded by Queen Exther.

*auban, *Sebastien** (rég3-799), was a renowned French, military engineer, who introduced great improvements in methods of fortification, became Commander General of Fortifications under Louis XIV., and was made Marshal of France. He invested France with an entirely new series of fortifications, conducted fifty-three sieges, and took part in 140 battles.

part in 140 battles.

Yaucanson, Jacques de (1700-1782), a clever French incchanican, who invented and exhibited some wonderful working automata, including a lifelike flutt-player, a tambourine and flageolet player, and a duck which went through the inovements of eating and drinking and could "quack" quite naturally. He also devised improvements in weaving machinery that to a certain extent anticipated the

lacquard loom.

Yaughan, Father Bernard (b. 1847), brother of the late Cardinal Vaughan, a fearless Romanist preacher, whose fulminations against the suns of the

preacher, whose fulminations against the sins of the smart set? from the pulpit of the Farm Street Jesuit Church in Lendon in 1906 created considerable consternation in Society.

Pelanques. Diego (1469-1573). a Spanish soldier and companion of Columbus, who was sent to conquer Cuba. Velasquez founded Santiago and Havana, and despatched Cortés to Mexico, afterwards quarrelling with the latter over the spoils, and dying, it is said, of vexation at his failure to get the better of Cortés.

dying, it is said, of vexation at his failure to get the better of Cortés.

Pelasques. Diego (1599-1650), was a famous Spanish painter, whose pictures rank among the finest in Spanish art. His style was sombre and dramatic, but he invested his works (especially his portraits) with such a natural force that they never tack in distinction. He held a court appointment to Philip IV. His." Adoration of the Shepherds" is at the National Callery.

**Pardi, Gluseppe (1813-1001), the most popular composer of Italian opera of the 19th centiver, Wards, Gluseppe (1813-1001), the most popular composer of Italian opera of the 19th centiver, was the son of poor parents, and, showing an early talent for music, was pur in the way of obtaining an adequate musical training. His first opera to obtain anything like popularity was his "Nabucodonosor," produced in 1842 "I Lombardi" followed in 1843, and "Ermant" in 1844, which were even greater successes, and gave him a first place among European composers. In 1851 he produced "Rigaletto," and in the next few years "Il Trovatore," and "La Traviata." In 1871 he astonished the world by the production at Cairo of an opera conceived on really great lines. This was "Aida," which was followed at intervals by "Otello," and "Falstaff."

Yerne, Jules (1828-1905), was one of the most popular authors of wonder-stories in Europe. The best-known of his numerous works are Five Weeks in a

known of his numerous works are Five Weeks in a Balloon, A Yourney to the Centre of the Earth, Twenty Thousand Lengues under the Sea, Rosmathe Werld in Eighty Days, and Michael Stropgef.

Wernet, Horsoe [1780-1863], was a distinguished French painter of betatie-pioces, the best of which are in the galleries of Versailles and the Lourne, Both his father, Carle Vernet [1780-1893], and his grandfather, Claude J. Vernet [1714-1789], were also painters of note, the former excelling in historical and military subjects, and the latter in marine and landscape pictures.

painters of note, the normer excessing in marine and landscape pictures.

Wernier, Pierre (1580-1637), an ingenious Spaniard, who invented the mechanism of the vernier axiliary scale, enabling lines and angles to be measured to a much more minute degree than had previously been possible. The vernier, however, is now superseded for the most part by uncronneter-screws.

Weronese, Paul, or Paolo Callar! (1588-1588), a celebrated Italian painter of religious subjects, who was great as a colourist, and produced some of the most important works of his time. His "Marriage Feast at Causa in Gallier," "The Feast in the House of Simon," and "The Presentation of the Family of Darnus to Alexander," are paintings of world-wide celebrity, while his "Adoration of the Magi," in our National Gallery, is a grand work. Alessandro Veronese (1582-1648) is the name by which another Italian painter (of historical pictures) is generally known, but the two are in no way to be confounded, the latter's real surnam heing Turchi.

Weronica, St., a legendary woman of Jerusalem.

the latter's real surname heling Turchi.

Yeronica, Et., a legendary woman of Jerusalem.

who was said to have handed to Christ her kerchief
on His way to Calvary. The old belief was that the
Redeemer wiped His brow therewith, leaving on the
handkerchief a miraculous impression of His face,
the so-called "Veronicon" The Saint is commemo-

rated on February 4th.

Yespasian (9-79), was Roman Emperor during the last nine years of his life. At one time he commanded the Roman army of occupation in Britain.

named the Koman army of occupation in Britain.

Later he saw active service in Africa, where he held
the position of Pro-Consul, and in Palestine, when he
made war upon the Jews. He interested himself in
the building of the Colosseum.

*Vespucol, Amerigo. (See "Amerigo.")

*Victor Emmanuel II. (1820-1878) was King of
Sardinia from 1849 to 1861, became King of Italy,
according to the Proclamation of the Sardinian
Senate: but it was not until 1870, when the uni-Senate; but it was not until 1870, when the unification of Italy was fully secured, that the title came

ncation of tax was titly secured, that the fittle came to have its true significance.

Victor Emmanuel III. (b. 1869), son of Humbert L. and grandson of Victor Emmanuel II., succeeded his father as King of Italy in 1900.

Victoria (1819-1901), Queen of Great Britain and Ireland and Empress of India, was daughter of the Duke of Kent, and came to the throne in 1837 on the detect of the manual William. Duke of Kent, and came to the throne in 1837 en'the death of her uncle, William IV., being crowned in Westminster Abbey in the following year. In 1840 she married Prince Albert of Saxe Coburg Gotha, who died in 1861. There were nine children of the marriage, namely, Victoria Adelaide, Princes Royal, born 1840; Albert Edward, Prince of Wales, 1841 (Edward VII.); Allce Maud, 1843; Alfred Ernest, 1844; Helena, 1846; Louise, 1848; Arthur, 1850; Leopold, 1853; and Beatrice, 1837. Of these Edward VII. died in 1970; the Princess Royal, who was married to Prince Frederick William of Prussia, became Empress of Germany, and was the mother of the present Emperor of Germany, died in 1907; Princess Alice, who married Prince Louis of Hesse Darmstadt, died in 1878; Prince Alfred (Duke of Edinburgh and afterwards of Saxe Coburg) died in 1900; whilst Prince Leopold died in 1884. Lord Melbourne was Frince Minister at the date of the Queen's accession, and for a number of years the country lived through troublesome times, the Com Law and Charits's agitations being at times, wery Law and Chartist agitations being at times very threatening, but a more settled condition of things supervened, and for the remainder of the long and illustriends Victorian reign there was no serious home

unrest. The principal events, beyond the bounds of the United Kingdom, of her Majesty's reign were the Crimean War, the Indian Mutiny, her procla-mation as Empress of India, and finally the Boer War. The Jubilee of Queen Victoria's accession was celebrated in 1289, and the Damond Jubilee ten veers later.

years sazer.

Yeauxtamps, Henri (1820-1881), a celebrated
Belgian violinist who was an executant of much
power and dexterity, and for many years appeared
at the leading Loudon concerts, and was an equal
favourite in the various European capitals. He also

favourite in the various European capitals. He also composed numerous fine pieces for the violin.

Yillare, Duc de (1653-1734), a noted French diplomatist and military commander who was in turn Ambassador at Munich and Vienna, became Marshal in 1702, lost the battle of Malplaquet in 700, defeated Eugene in 1713, and captured Milan in 1733 during the Lombard War.

Yilleneuwe, Pleare (1793-1806), the French naval commander who was opposed to Nelson at Trafalgar and captured along with his ship, the Hucentaure. For a time he was held a prisoner in England, and felt his defeat so keenly that on his release and return felt his defeat so keenly that on his release and return to France he committed suicide.

to France he committed suicide.

Yilllers, Charles Pelham (1800-1898), was one of
the Free Trade leaders along with Cobden and
Bright, an untiring worker and an eloquent advocate
of the cause. He represented Wolverhampton in
the House of Commons from 1895 to 1897. He was a
hrother of the fourth Earl of Clarendon.

protter of the fourth Earl of Carendon.

Yilliers, Geo. Wm. Fredk., 4th Earl of Clarendon. (See Clarendon.)

Yillon, François [1/31-1461, was'a clever French adventurer and poet, who lived an unccrupulous, romanic life in quarrelsome times. Although mainly a vulgar vagabond, he had the poetic gift and a lively fancy, and in his calmer moments could throw off a sport or habiled with the best. Manuel these off a song or a ballad with the best. Many of these

compositions have been preserved Vincent, Sir C. E. Howard, M.P. (1849-1908). a prominent Conservative politician, and an enthusiastic Protectionist, who had been in the Army, and was learned in the law, besides distinguishing himself as Director of Criminal Investigation.

as Director of crimina investigation.

Yirchow, Rudolf (1821-1902), a celebrated German anatumist and physiologist, the founder of cellular pathology, Professor first at Wurzburg and then at Berlin, he also figured as a politician, and was one of the leaders of the Progressist and later of the German Liberal Party in the Reichstag.

one of the leaders of the Progressist and later of the German Liberal Party in the Reichstag.

Yigill (70-79 B.C.), the great Roman epic poet. Was born near Mantua, and cultivated a farm in the adjacent village of Andes. He proceeded to Rome in his thirtieth year to obtain roderess for the occupation of his lands by the military. Became known to Dctavian and Macenas, and, having had his demand satisfied, began the writing of his Ecloyer. The Georgie's followed in his forty-third year, after which he began his most famous work, the Enteld, which, when completed, comprised twelve books, dealing with the story of the wanderings of Eness after the destruction of Troy. The poet resided in Rome during his later years, and became wealthy.

Yirginia, Lucius, was, according to legendary history, a Roman centurion, whose daughter, Virginia, having attracted the eye of Appus Claudius, the latter instructed one of his retainers to lay claim to the girl as his slave. Appus Claudius

Claudius, the latter instructed one of his retainers to lay claim to the girl as ins slave. Appung Claudius himself presided at the tribunal, before which the claim was heard, and awarded the girl to his dependant. At this point, the enraged father, rather than see his daughter handed over to dishonour, killed her in the presence of the court. This was the signal for a popular rising. Virginius was proclaimed tribune, and Applius Claudius cast into prison, where he committed suicide.

YELUS, \$5., Roman Catholic sains and martyr, who lived in the 4th century, it used to be the custom to dance before his shrine on his festival day, June zgth, in the belief that good health was thereby ensured for the next twelvemonth. The nervous allment, St. Vitus' dance, derives its name from this practice.

practice.

Yolta, Count Alessandro (1745-1827), was borrat Como, and became Professor of Natural-Philosophy both there and at Pavis University. In the course of his studies in electricity list discovered the voltaic pile, giving his name thereto, and also to the electrical unit, like volt. To Count a is due also the invention of the electroscope.

Yoltaire, François Marie Arouet de 1694-1778), one of the greatest of French philosophers and writers, who was educated for the bar but preferred literature. His first essays offended the authorities, and he lived in London for a couple of years (1726-1738), and there wrote some of his dramas. Returning to France, he published his *Phylosophical Letters*, which aroused the enmity of the priesthood to such an extent that the book was publicly burned. At this juncture, the Marquise du Châtelet offered him the asylum of her castle of Cirey, and for the next fifteen years he made this his home, and there wrote some of his most famous works-Discourses on Man, Essay on the Morals works—Discourses on Man, Essay on the Morals and Spari of Nations, Age of Louis XIV., among the rest. From 1750 to 1753 he lived in Berlin, on the invitation of Frederick the Great. Later he Yortigern, a famous British prince who, when at war with the Picts, is said by Bede to have called in the Jute pirates, Hengist and Horsa, to his and, and so secured victory.

Wace, Very Rev. Henry. D.D. (b. 1836), Dean of Canterbury suce 1903, formerly Principal of King's College, London; author of numerous important

theological works.

Waddington, William Henry (b. 1826, d. 1894). French statesman and archæologist.; Plempotentiary at Berlin Congress, 1873; Ambassador to Great

at Beriin Congress, 1975; Almoassauor to creat Britain, 1883-1893.

Wade, Benjamin Franklin, American statesman (b. 1800, d. 1898), anti-slavery leader and acting Vice-President of the U.S.A., under Johnson.

Wagner, Richard (1873-1883), born at Leipsic, was the composer who exerted the greatest influence was the composer who exerted the greatest influence upon musical art during the 19th century. He revolutionised operatic methods, and doing away with set bollads and chorouses, endeavoured to give the same unity of action to an opera as would be realised in a play without music. This continuity of musical thought and action was a long time in forcing itself into acceptance, but to-day is acknowledged as the only adequate interpretation of dramatic musical expression. Wagner fought for dramatic nusical expression. Wagner fought for his position with great pertuacity and courage, but it was not until the King of Bavaria enabled him to include his aims to their fuller development that he indulge his aims to their fuller development that he realised his ambition. At the famous opera house at Bayreuth were produced all the later Wagnerian operas of the "Ring des Nibelungen" tetralogy. His last work, "Parislal," given in 1882, shows the fulless of his powers.

Wain, Louis (b. 1860), a clever artist and animal caricaturist, widely popular for his humorous and faincful drawings of cats, concerning which he is an expert President of the National Lat Club.

Wakinglid, Gilbert (1750-1861), a theological and classical writer, who became Principal of Hackney College, and before becoming a Nonconformist was in Anglican Orders. He was a violent paniphleteer, and suffered imprisonment for two years for a particularly bold attack upon the Bishop of Llandaff.

Wakefield, Ris, Rev. Henry Russell, D.D. (b. 1854), Bishop of Birmingham, has been an indefatigable worker on behalf of social betterment and unemployment, was the Rector of Sk. Mary's,

manuscripton by solution of solutions of selectment and unemployment, was the Rector of St. Mary's, Bryanstone Square, 1801-1909. Dean of Norwich, 1900-1911, and Mayor of St. Marylebone, 1903-1905.

Walker, Frederick (1840-1875), a clever painter and black-and-white artist, who from 1860 to his death and a west promiseful causer and western and a second and account of the second and account of the second and account of the second accoun

had a very promiseful career, and produced many works that are highly valued.

Walker, Frederick William (1830-1910), was High

Master of St. Paul's School, London, from 1876 to 1905; an emment classical and mathematical scholar Walker, General Eir Frederick William Eir Froestier (1844-1910); streed in Kaffir War 1877-1876; Zulu War 1879; commanded troops in 1-gypt 1889-1895; Lieut.-Gen. in command of Lues of Communication, South Africa Field Force, 1899-

walker, George, the hero of the siege of London-derry, in 1688, a clergyman, who, after Lundy's desertion, took command of the defence of the town

and kept the besiegers at bay for rog days. Two years later he was killed at the Battle of the Boyne. Wallace, Alfred Russel (1822-1913), the celebrated naturalist, a native of Usk, attracted much notice as far back as 1853 by his book Travels on the Amazon, detailing his experiences in that region alm 1858, while down with illness in the Molnicas, the idea of the evolution theory occurred to him, and curious to say, he drafted his first notes upon it and sent them to Darwin in England while the latter was on the eve to Darwin in England while the latter was on the eve of publishing his own exposition of the theory, the result being the reading of a joint paper on the subject to the Linnean Society. The coincidence was fully acknowledged by Darwin. There are differences, however, between the points of view of the two thinkers. Wallace's Darwinsses fully expresses his own views on the subject. He also wrote on Miracles and Modern Spiritualism. He

wrote on Miracles and Modern Spiritualism. He enjoyed a Govenment pension from 18c, and in 1905 published a deeply interesting autolingiraphy Wallace, Sir Donald Mackenzie (b. 1841), journalist, traveller, and picturesque miscellaneous writer. Accompanied the present King and Queen (then Duke and Duchess of York) on their Colonial tour in 1901 as assistant private secretary and official recorder. Edited the tenth edition of the Encyclopadia Britannica, and has written notable books on Russia and Egypt. and a volume entitled The Web of Empire.

Wallace, General Lewis (1827-1905), a popular American novelist; served in the Mexican and Civil Wars, and was Governor of New Mexico from 1878 to wars, and was covernor of New Mexico from 1878 to 1885, and subsequently Minister to Turkey. His first literary work was A Tale of the Conquest of Mexico, and seven years later his historical rousinese, Ben Hist A Tale of the Christ, made him funous. Wallace, Bir Richard (1884-189), son of the Marquis of Hertford, and inheritor from him of a famous collection of necessary.

anarquis of rierrora, and mneritor from min or affamous collection of pictures and other works of art, to which he himself added largely. This collection was bequeathed to the nation by his widow along with Hertford House, and now forms one of the most Important exhibitions in London.

Wallace, Sir William (circa 1270-1305), the great Scottish patriot and cheftam who led the Scottish armies with so much success against Edward I, that tor a time the English were kept completely in check. Later, Edward defeated him at Falkirk, and finally

in 1304 he was captured, taken to London, con-demned for treason, and executed at Smithfield. Wallenstein, Albrecht von (1583-1624), a great Bohemian general and Duke of Friedland, who, raising an army of his own proceeded against the Lower Saxon League, and occupied a number of provinces as commander. This led to Gastarus Adolphus setting out to oppose him, and at the famous bartle of Litzer, Wallenstein was defeated, though Gustavus Adolphus linnself was killed. Wallenstein afterwards tried to obtain Bohemia for

his own kingship, but was assassinated.

Waller, Edmund (1605-1687), was one of the most Waller, Edmund (1603-1687), was one of the most graceful of English poets, who tuned his lyre fo suit both the Cromwellians when they were a power, and Charles II. when his turn came. Suspected of being implicated in some plot against Parliament, he was fined and banished, but was allowed to return to England later. After the Restoration he became a favourite of Charles II., and had a high reputation among the fashionable people of that day.

Waller, Lewis (b. 1860 in Spain), a cleve. actor, who established himself as a London favourke after much hard work on tour. as an interpreter of

much hard work on tour, as an interpreter of romantic leading and other parts.

Walpole, Horsee (1717-1797), was the younger son

of Sir Robert Walpole, filled a number of Government positions, and was a member of the House of Commons. He retured in 1768 to his favourite house at Strawberry Hill, and devoted himself to the writing of books and the accumulation of works of art

of art.

Walpole, Sir Robert (1676-1745), was the great
Whig statesman of the early part of the 18th century.
He resolutely opposed the South Sea scheme, and
showed enlightened views of financial policy. On
becoming first Lord of the Treasury and Chancellor
of the Exchequer in 1745, he evinced such boldness
and capacity in handling the affairs of the country
that a long term of office was assured to him. He
was Prime Minister for twenty-two years, and propounded the then new theory that the extension of
commerce would be best promoted "by making the
exportation of our manufactures, and the importation
of the commodities used in the manufacturing of of the commodities used in the manufacturing of of the commodities used in the manufacturing of them as practicable and easy as may be"; and he relieved from duty more than 100 export and forty import articles, a policy which greatly extended the scope of British commerce.

Walpurga, St., was an abbess who emigrated in the 8th century from England to Germany, and became associated with the witch legends of Walpurgis Night in legendary lore. Her day in the calendary of the Church is May 1st.

Walsh, Most Rev. Wm. J. (b. 1847), Roman Catholic Archibishop of Dublin, 1889-1910, an eniment churchman of Irish birth, who became Protessor at and President of Maymooth College, and was made

and President of Maynooth College, and w. s made Frinate of Ireland in 1885. He has been closely asso-ciated with the Nationalist movement, has sat upon several Variamentary Commissione, and had thard in the framing of the Irish Land Acts of 1882 and 1885. Chancellor of the National University of Ireland

Walsingham, Sir Francis (1536-1590), a British Walsingham, Sir Francis (1536-1500), a British diplomatist and statesium, who was Ambasador to France, 1570-1573, and later Secretary of State and Chancellor of the Duchy of Lancaster. He was a strem... we opponent of Mory Queen of Scots, and a great patron of learning in his day.

Walter, John, the name borne by the founder of the Innes, and also by the next two managing proprietors of the paper. The second John Walter was the leading spirit of the Innes from 1803 to 1847, and it was his efforts that made the journal the greatest newspaper in the world.

newspaper in the world

Walton, Izaak (1593-1683), one of the most loveable of English writers and particularly famous as the author of The Compleat Angler, or the Contemplative Man's Recreation, which has gone through hundreds of editions and is still read with gratification by all followers of "the gentle art," as well as by lovers of country life generally. Up to the age of fifty he was a London drajp and the gratification of the generally.

a leading man at the Bar and in Liberal politics, and the son of an Ex-President of the WesleyAn Conference. Appointed Attorney-General by Sir H. Campbell-Bannerman in his Government formed at

Campbell-Bannerman in his Government formed at the end of root, and died on January 7th, 1978.

Warbeck, Perkin, was for a time a Pretender to the English Crown. The son of a Toumai Jew, he claimed to be Richard, Duke of York, supposed to have been murdered in the Tower, and therefore entitled to the throne of England in preterence to its then occupant, Henry Vil. The Buchess of Burgundy declared hun to be indeed "her dear nephew," and Charles Vill. of France and James IV. of Scotland also gave hun their counternace, the first allowing him a pension, the second giving him the hand of his relative Lady Catherine Cordon in marriage. Warbeck was enabled in 1497 to appear in England at the head of a force of 7,000 men, but was easily defeated, and after some clelay was tried for treason and manged eventually at Tyburn on November 23rd, 1490.

November 23rd, 1490.
Warburton, William (1698-1779) was a cele-brated English divine, who from 1760 his death was Bishop of Gloucester. He wrote a number of theological books which greatly exercised the clerica of the time, the work of his which awakened the

greatest amount of controversy being the Divine egation of Moses.

Ward, Edward Matthew (1816-1879), was a prominent English painter and R A., who executed some of the frescoes in the Houses of Parliament and

produced numerous large and notable canvases. Many of his pictures were engraved.

Ward, Col. Sir B. W. D., R.C.B. (b. 1853), was permanent Under-Secretary to the War Office 1901-13. He entered the army in 1874 and served with distinction in various parts of the world in later years, being with the Soutian Lynedition in 1885, in the Ashanti War 1895-1866, and during the Lady-sunth siege was assistant adjutant-general, subsequently being appointed Director of Supplies for the South African Field Force.

Ward, Mrs. Humphry (b. 1851), is a grand-daughter of Dr. Arnold, of Righy renown, and wife of Mr. T. Humphry Ward. She first sprang into notice as a novelist with her Robert Lismere in 1883. and since then has written several other stories which have, in the main, realised the high promise of her first work. These include Marcella, Sir of her first work. These include Marcella, Sir George Treesady, David Grieve, and Fenuick's

Ward, Hon. Sir Joseph G., K.C.M.G., Bart., Premer of New Zealand, 1906-1911. A vigorous personality and a strong supporter of the Unity of Empire. Attended the Imperial Conferences of 19 9 and 191

Ward, Leslie (b. 1851), a portrait painter of con-siderable distinction, and widely famous as "Spy,"

the caricaturist of Vanity Fair.

the caricaturist of Vanny Fair, Wagner, Charles Dudley (1809-1900), American author and humorist, who was for a while absorbed in journalism, and later became associate editor of Harper's Magazine. His Back-log Studies, My Summer in a Garden, Reing a Boy, Captain Yoka Cariba and other winters inconstructed from 1904.

Summer in a Garden, Reing a Boy, Copross.
Smith, and other writings possess much charm.
Warner, Susan (1819-1885), in American novel of bor net name of "Elizabeth better known by her pet name of "Eirabeth Wetherell." Her books, The Wide Wide World, Daisy, The Old Helmet, gaired her universal favour.

Warran, Henry (1708-1879), was a popular English marten, received and Scriptural subjects, and for a number of years was President of the Institute of Painters in Water Colours.

Warren, Samuel (1807-1877), was a well-known barnster and novellet, who by 'ss Diary of a late Physician, and Ten Thousand a Year, won a very considerable popularity. He was for namy year Recorder of Hull, and later a Master in Lunacy.

Warton, Joseph (1722-1830), Clergyman, 180et, and miscellaneous writer, and for twenty-seven years Head Master at Winchester School. He edited Pope, and wrote a masterly essay on that poet

Warton, Thomas 1728 1790], brother of the last named, was the author of a History of English Petry, and for the last five vears of his life was Poet Laureate. He also filled the position of Professor of English pretry at Oxford, and was an esteemed authority on that subject.

warwick. Countess of (b. 1801), wife of the present (4th) Earl, has been identified with many public movements for the betterment of her sex, and is an ardent advocate on the phitform and in the Press of Socialism. She has established at Studiey a college for the agricultural training of women, a

rees of sortains. Me and shadished at Modely a college for the agricultural training of women, a horticultural college and hostel at Reading for the daughters of professional men, a science and technical school for boys and girls in Essex, and a home at Warwick for crappled children.

Warwick, Richard Newille, Earl of (cirna 1428-1471). "The King Maker," was the leader of the York party in the Wars of the Roses and carried his ambitious plan through withgreat energy and success. At the battle of Northampton he-made Henry VI. captive, and afterwards proclaimed Edward, Earl of March, king under the title of Edward IV. Then, when Edward showed a disposition to resent Warwick's protection, the latter drove Edward from the country and once more placed Henry VI, on the throat. He lost his life of the battle of Barnet.

Washington, George (1732-1799), was of English descent, and was living on his American estate at Mount Vernon when the dispute between the British home government and the colonists broke out. He became one of the leaders of the local opposition. occame one of the leaders of the local opposition, and later was elected to the first Congress at Philadelphia. The following year, 1775, saw him Communder-in-Chief of the American arruy, and from that time to the end of the struggle in 1783 he was trusted and adored by the people, and on the founding of the Republic became its first President in 1789. He

the Republic occasion is arist rresident in 1799. He served a second term of office from 1793 onwards, and refused election for a third time. He was one of the noblest characters in history—good, simple, honest, brave, and efficient.

**Watkin, Slir Edward (1819—1901), a great English rallway magnase in his day. Became Secretary to the Trent Valley line in 1845, and later was Chairman of the South Eastern, the Manchester, Sheffield and Lincolnybure the Merchopitan, and the Fast London. or the South Extern, the Manchester, Shemed and Lincolnshire the Metropolitan, and the East London Railway companies, and had a good deal to do with the founding of the Great Central. He fought hard for the promotion of the Channel Tunnel, and was a tireless worker for railway progress in all directions.
Watson, Rev. John ("Ian Maclaren") (1850-1907).

became a Free Church Minister in 1875, in 188c removing to Sefton Park Church, Liverpool, the charge of which he retained until his retirement in 1905. In 1804 he came before the public as a writer of Scottish stories, and his Beside the Bonnie Brian

of Scottish stories, and his Beside the Bonnie Brian of Stottish stories and his his believed this up with other popular stories and lights, including Kate Carnigge, The Days of Auld Lang Syne, and Young Barbarrans. He was on a lecturing tour in the United States when he died Watson, Williams, he 1838 at Burley-in-Wharfe-dale, and educated at Liverpool. In 1880 his "Prince's Quest" was published, followed in 1834 by "Epigrams of Art, Liie and Nature," These, however, attracted no special attention, but when 1890 he issued his "Wordsworth's Grave," it was felt that a new poet had arisen, and from that time every. that a new poet had arisen, and from that time every-thing he has published has been received with admiring appreciation. He has been in receipt of g

admiring appreciation. It is as seen in receipt or Civil List pension of fire a year since 1895.

Work, James (1735-1819) Horn at Greenock, this groins was originally a mathematical instrument maker, and being brought into touch with mechanical problems, conceived the idea of the steam engine, to which he afterwards devoted his life. Others had to which he afterwards devoted his life. Others had worked at the idea before him, but no very practical success had been obtained. Watt took cut his first patent in 1760; the engine, however, was only used for mining operations until 1785, when it was applied to the working of a cotton factory. Watt being greatly aided in his developments of the engine by the business ability of his partner Matthew Boulton his son James (1760-1848) was also a mechanical engineer of considerable ability.

Wattenn, Jean 17(81-1721), a French landscape

**Regimeer of considerance annity.

**Watteau, Jean (1684-1701), a Fiench landscape painter of transcendent ability, and especially great in gentre. It is shepherds and shepherdesses, rustic dance and fête scenes were wonderful for their harmonious brilliancy of coloration. His chefacture is the "Embarkation for the 184 of Cytherus" in the Louvre.

**Watte ** Elante (1002-1861) post puiscellaneous.

Watts, Mario (1797-1864), poet, miscellaneous writer, and editor of the Liverary Soswessier, Poetual Album, and Cabinet of Modern Art. His Lyrics of the Heart contained some of his best

Watts, George Frederick, R.A. (1817-1904), occupied a unique place in English art, the majority of his works being marked by depth of thought and a poetic ineaning which rendered them highly distinguished. His works are numerous, but among the best of them may be mentioned "Love and Death," "Hope," and "The Angel of Death," Ha bequeathed to the nation a large number of his finest pictures. His portraits of Swinburne, Carlyle, Cardinal Manning, Browning, and Tennyson are especially fine. He was one of the original members of the Order of Merit.

**Watte. Bases (1664-1748), the great English hymn.

Watte, Isaac (1664-1748), the great English hymn

writer, was born at Southampton, and became a Nonconformist minister. It was mainly as a writer of hymns, however, that he became distinguished, some of his compositions being among the finest in the language, while others are the merest doggerel. Watts was the guest of Sir Thomas Abney for thirty-six years. His book on the Improvement of the Afind was at one time exceedingly popular.

Watts, Bir Philip (b. 1850), a great naval architect and Director of Naval Construction to the Admiralty, 1901-11. Designed the first *Dreadnought* launched

Watta-Dunton, Theodore (b. 1836), a native of St. Ives, Huntingdon, educated for the law and practised as a solicitor in his native town for some years. Showing a strong literary bent, however, he settled in 1872 in London, and at once took up a

settled in 1892 in London, and at once took up a prominent position as a critic—especially as a critic for poetry. From 1895 to 1898 he was the chief critic of poetry. From 1895 to 1898 he was the chief critic of poetry for the Altheneum. Mr. Watts-Dinton, published the The Coming of Love in 1897, and in 1898 his brilliant romance Asylvain.

**Taugh. Edwin (1817-1890), the Lancashire poet and writer of dialect sketches and stories, the best among the latter being his "Infis of Heather, Chimney Corner, and Besom Ben Stories. His Lancashire Songe—many of them tender and pathetic, despite their difficult phraseology to non-Lancastrians—were first collected in 1890.

**Sandale, Philip Stanhope, 1st Baron (b. 1847). Liberal member for Wednesbury (1886-1892), Burnley (1893-1900), and the Harborough Division from 1904 until his elevation to the Upper House upon the Liberals succeeding to power at the end of 1905. He is one of the trustees of the National Gallery. end of 1905. National Gallery

Webb, Sir Aston, R.A. (b. 1849), one of our fore-most latter-day architects, and the designer of the general scheme of the Victoria Memorial in front of Buckingham Palace, also of the projected new façade of the palice, the new Birmingham University, the Britannia Naval College at Dartmouth, and many

other fine structures.

Webb, Eatthew (1848-1883), an intrepid swimmer, who in 1895, swam the English Channel in twenty-two hours, and was drowned eight years later in an attempt to swim through the Niagara rapids.

Webb, Sidnay (b. 1890), an active Progressive politician, and writer on economic questions. Was a member of the London County Council, 1892-1910.

and is one of the Senate of London University. He

has writen a History of Liquor Licensing.

Weber, Carl Maria. You (1786-1806), was a distinguished German opera composer. He was for some years Chapel-master to the King of Saxony at Dresden. His best known opera, "Der Freschutz,"

Dresden. His best known opera, "Der Freischutz," was immensely popular, and is still frequently given Other favourite works of his are "Oberon," and "Euryanthe."

Webster, Benjamin (1800-182e), a London actormanager of much popularity in his day. Built the Adelphi Theatre in 1868, and was later lessee of the Olympic. He was a fine comedian.

Webster, Daniel (1782-1822), was a famous United States lawyer and politician. He was for many years Secretary of State, and rendered splendid service to his country. It was as an orator, however, that he was chiefly famed, being the most eloquent public speaker of his time.

Webster, Noah (1758-1643), the famous American lexicographer and grammarian, whose larve Dictionary of the English Language was a monumental achievement. He wrote extensively also on hterary and political themes, and produced a brief history of the United States.

the United States.

Wedgwood, Josiah (1730-1795), was the most famous of English potters. He was born at Burslem. Served an apprenticeship that carried him through all the branches of the trade, and in 1750 gras able to set up in business for himself with money he had saved. He persevered through failure after fallure, and in a few seary produced such an improved form and in a few years produced such an improved form of ware that it came into great demand. He engaged Flaxman to make classical designs for him, and his

pottery became the fashion, and led to a great extension of the Staffordshire earthenware industry. His works at Etruria were the most extensive of the

His works at Etruria were the most extensive of the kind in the kingdom.

Wair, Harrison (1824-1906), artist, journalist, author, and authority on poultry and pigeons. Wrote Our Poultry and All About Them, the preparation and illustration of which occupied him for t venty years, and contributed countiess animal drawings and stories to the illustrated press.

and stories to the indicated press.

Weismann, August (b. 1834), a noted German
natural scientist, particularly distinguished in zoology,
of which he was appointed Professor at the University
of Freiburg In 1867. Author of numerous learned

orks on heredity.

of Freiburg in 1867. Author of numerous learned works on heredity.

Walidon, Bilahop, J. E. C. (b. 1854), a distinguished Greek scholar, now Denn of Manchester. Has been successively Head Master of Dulwich College, Chaplain in Ordinary to Queen Victoria, Head Master at Harow, Bishop of Calcutta and Metropolitan of India, and Canon of Westminster, which he left for the Manchester Deannery in 1906.

Wallesley, Emarqueans of 1706-1849, leder brother of the great Duke of Wellington, and himself a statesman of note, who was in turn Governor-General of India, Ambassador at Madrid, Foreign Secretary, and twice Lord-Lieutenant of Ireland.

Wallington, Arthur Wallealey, Duke of (1769-1852), was the most famous Fritish general of the other than the second of the spike century. He was a younger son of the Earl of Mornington, and entered the army in 1767. He first experience of active waffare was obtained in India, where he acquitted himself so well that he was knighted on returning home in 1805. He next found humself putted against the army of Napoleon in the Peninsular War, and scored a brilliant victory over Soult at Talavera in 1809. A number of equally important victories followed; Ciudad Rodrigo and Baddajoz were captured; another trumph was chieved at Salananca; then came the battle of Vittoria, which was such an overwhelming defeat for the French that the abdication of Napoleon and the entry of the allied forces into Paris became inevitable. Peace was proclaimed, and Wellington returned to England, and was received at a hero. In 1814 he was British Ambassador at Paris. Then came Napoleon's escape from Elha, the short and sharp campaign which terminated at Waterloo, and the final overthrow of Napoleon. Honours and gifts were showered upon Wellington, and he was the most pronument man in the Empire. From 1842 to his death most pronument man in the Empire. From 1842 to his death most pronument man in the Empire. From 1845 the death most pronument man in the Empire. From 1845 the death most pronument man in the Empire. most prominent man in the Empire. From 1848 to 1830 he was Prime Minister. From 1842 to his death he held the position of Commander-in-Chief, His funeral at St. Paul's was one of the great pageants of last century.

Walls, C. J. (1800-1879), a gifted but neglected poet, the schoolfellow of Keats, and author of a fine dramatic poem "Joseph and His Brethren," ranked

by Swinburne very highly indeed.
Wells, H. G. (b. 1866), one of the most imaginative or living English novelists, who lets his fancy loose upon the world of science and creates new conupon the world of science and creates new conditions, inventions, and forces, weaving them all into a texture of seeming actuality with a possibly remote future as his background. His Time Machine. The Wheels of Chance, The Invisible Man, The War of the Worlds, The Food of the Gods, and Mankind in the Making, New Worlds for Old (1907), and War in the Air (1908), are all books of mass. books of mark.

books of mark.

Warner, Friedrich (1768-1893), a German romantic poet and dramatist, founder of the "fate-tragedy" school. Amough his dramas may be mentioned "Martin Luther," "The Sons of the Valley," and "The Cross on the Baltic." He entered the priesthood after three unfortunate matrumonial experiences.

waley, Charles (1708-1788), brother of John Wesley, the founder of Methodism, and the poet of that denomination. Wrote a large number of hymns for almost all religious occasious, many of them of enduring merit.

Wesley, John (1703-1791), the founder of the great religious communion of the "people called

Methodists," and the son of a clergyman or the Anglican church. Taking orders himself, in 1735, he went to Georgia as a missioner and allied himself with the Moravians, but later he abandoned all ecclesiastical traditions, and established, on a wonderfully well-devised basis, the connexion called by his name. His own open-air preaching was powerful in the extreme, his energy and depth of purpose inspiring, and his organising ability exceptional. He accomplished a great work of religious revivincation, taking the world as his parish; and profound as was his conviction of his high calling as an Evangelist, John Wesley "builded better than he knew" in rearing the denominational edifice which is the monument of his faith and edifice which is the monument of his faith and strenuosity

West, Benjamin (1738-1820), was born in America, but settled in England in 1763, and soon acquired a high reputation as a painter of religious and historical pictures. In his own day his larger paintings, such a received the rec

until his death.

West, Rt. Hon. Sir Aldernon (b. 1832), a Privy
Councillor who began life as a clerk in the
Admiralty, and was secretary to Sir Charles Wood
at the India Office before acting in the same
capacity with conspicuous success for Mr. Gladstone. Became Chairman of the Board of Inland Revenue, and sat on several important Commissions. Has published a volume of reminiscences, and a memour of Admiral Sir Henry Keppel.

Wastooti, Rev. Brooke Form (1825-2001), biblical scholar, Professor of Divinity at Cambridge, 1870-00, Rishop of Durham, 1890-1901. One of the revisers of the New Testament.

Westmacott, Sir Richard (1775-1866), a great English sculptor who studied under Canova at Rome, and succeeded Flaxman as Professor at the Royal

and succeeded Flexman as Professor at the Royal Academy. He executed many fine monuments we westminster Abbey, at St Paul's Cathedral, and elsewhere. Pethaps his most conspicuous statue was that of Achiles an Hyde Park, his Last sculptural work being that in the pediutent of the British Museum. His son, Richard (1790-1892), was also a capable sculptor and a Royal Academician. Weyman, Stanley (b. 1894), the novelist, was educated at Oxford, and studied for the Bar, but developing a strong gift for futuon, has been able to take high rank among the story writers of the day. His first success was The House of the Wolf, published in 1800, in which he struck a mystic-romantic note of old days that proved very fascinating. His other best-known novels are, A Gentleman of France, Under the Red Robe, The Man in Black, and The Casile line.

Wharton, Phillip, Duke of (1698-1731), son, of

and The Casile Inst.

Wharton, Philip, Duke of (1698-1731), son of
Thomas, Marquis of Wharton (1640-1715), a Whig
statesman who in Parliament opposed the Court
during the reigns of Charles II. and James II., and
joined the Prince of Orange at the Revolution. The
younger Wharton was a political weathercock and a younger Wharton was a political weathercock and as ad spendthrift, but a poet of some pretrasions. He got his barren dukedom from the Pretender whilst travelling to evade trouble, and died in indigence ultimately in Span.

Whately, Archblahop (1787-1863), was for over thirty years Archbishop (1787-1863), was for over thirty years Archbishop of Dublin, and achieved a high reputation as a writer on theology and philosophy. His treatises on Rhebrox and Legic are among the most notable books of their class.

Whately, Archael St. Chaples (1892-1871), was an

among the most notable books of their class.

Wheatstone, Sir Charles (1802-1875), was an eminent English electrician and scientist, whose experiments in association with Mr. W. F. Cooke resulted in the first application in this country of the principle of the electric telegraph. The stereoscope was also one of his inventions. In 1834 he was appointed Professor of Natural Philosophy to King's College, London, a position which he held for many vears.

hewell, William (1794-1866), English phil-osepher and scientist: Professor first of Mineralogy

and then of Moral Theology and Casuirtical Divinity at Cambridge, and later Master of 1 mnity and Vice-Chancellor; President of the British Association in

That.

Whistler, J. A. McNaill (1834-1903), was an original artist, writer, and wit, who first came to Europe from America in 1857, and made a name as an etcher both in Paris and in London. His studies of Thames scenery were especially fine and now fetch large prices. Which he began to exhibit pictures in oils he greatly puzzled the critics, some of whom discovered in his "noctumes" and other studies an impressionist of surpassing genius, while others, including Mr. Ruskin, who described one of the "nocturnes" at the Grosvenor Gallery as "a pot of paint fung in the public face," looked upon them as mere audacious eccentricities. The finest of his oil paintings are his portrait of his mother and that of Carlyle. He brought an action against Ruskin for the criticism referred to, but only obtained a verdict of one farthing lanages without costs. His "Gentle Art of Making Fnemies" is a brechure that will long be remenabered.

"Gentle Art of Making Enemies" is a brechure that will long be remembered.

Whiston, William (1667-1758), succeeded Newton as Lucasian Professor at the University of Cambridge. Later he adopted Arian views, and indicated them in a work published by him in 277. This cost him his professoriship. His translation of "Josephus" is still the standard English version.

Whits, Blanco (175-1845, was originally a Spanish priest, but was led to disavow his faith, and on setthing in this country became connected with the

priest, but was led to disaow his faith, and on setting in this country became connected with the Church of England. He was a man of great learning and of some literary gifts. He enjoyed the friendship of many eminent men, including Arnold, Newman, and Whately. In later life he became a Unitarian. White, Field-Marshal Sir George (1825-1917), the heroic defender of Ladysmith in the South African War, and a soldier who achieved remown at many routes of a long multary career. Was a waster

African War, and a soldier who achieved renown at many points of a long miniary career. Was a wearer of the V.C., twice won, and a member of the Order of Ment. Went through the Mininy, was in he march to Kandahar, commanded the Gordons in Burmah, served in Egypt and conducted the Zhob Expedition, was Commander-in-Chief in India, led the Natal forces till shut for so long in Ladysmith, and was later Governor of Gibraltar.
White, Gilbert (1720-1793), was born and lived and died at Schome, in Hampslitier, where he held the position of clergyman. The main portion of his life was devoted to the study of the force and fauna of his parish, and his book, The Natural History and Antipattier of Schome is a British classic.

Antiquities of Selborne is a British classic.

White, Henry Kirke (1785-180), was the sen of a Nottingham butcher, and attracted much notice by some early religious poems, which were marked by an ardent piety and a graceful if not powerful imaginative capacity. He died from the strain of overstudy

white, Sir William H., K C.B. (1845-1913), a great naval engineer and architect, connected for a long period with the constructive department of the Admiralty and for some seventeed years at its head. Designed 250 ships for the navy, and retired with a

Desgned 250 ships for the navy, and retired with a Parliamentary grain in 150c.

Whitefield, George (1714-1770), was for a time associated with John Wesley at Oxford in the propagation of Methodism, and attracted rattention by his gifts as a preacher. He had been ordained, and while he co-operated with Wesley was his most powerful champion. In 1741, differing from Wesley on a point of doctrine, he left the Methodist, and thenceforward simply preached as an evangelist, allying himself with no sect, but expounding Calvinistic doctrines with fervour and eloquence. The Countess of Huntingdon built and endowed numerous chapels for him in various parts endowed numerous chapels for him in various parts

endowed numerous chapels for him in various parts of the country. He dued in America on his seventh tour through that country. Whitehead, Robert (1823-1905), inventor of the Whitehead torpedo, was a native of Bolton, and built his first torpedo in 1866, which was taken up by the Austram Government, and later was adopted by the British and other leading navies of the world.

Whiteing, Richard (b. 1840), a successful journalist and author. Has been leader-writer on the Morning Ster and Dasty News, editorially connected with the Press Association and the Manchester Guardian, and Paris correspondent for English and American dailies. The author of some clever novels, notably No. 5, Yohn Street. Received a Civil List pension in 1910.
Whiteley, George. See Lord Marchamley. Whiteley, George. See Lord Marchamley. Whiteley, George See Lord Marchamley. University. Later Bishop of Worcester, and Archbishop of Canterbury in 1531. Persecuted the Purtans, and was one of the authors of the famous Lambeth Articles.
Whiteley, Rt. Hon. J. H., M.P., Deputy Speaker

Whitley, Rt. Hon. J. H., M.P., Deputy Speaker and Chairman of Committees since 1911; previously Deputy Chairman of Committees, and had served as Government Whip. Is a member of a well-known firm of cotton spinners at Haufax, for which town

firm of cotton spinners at Halliax, for which town he has sat since 1900.

Whitman, Walk (1819-1892), waxan original figure in the world of American authorship, and produced many works of striking poetic merit. He served in the Civil War, and his vigorous humanity, as expressed in his writings, made hun a distinguished personality. Leaves of Grass, Drinn Taps, and Democratic Views were volumes that strongly attracted the critics, mostly in admiration, sometimes in censure, Whitman's work hemmo often inarred by a buntness Whitman's work being often marred by a bluntness of expression on subjects not usually talked about in

whitney, Ell (1965-1825), an American school teacher who was mechanically gifted, invented the cotton gin, and subsequently aniassed a fortune in

cotton gin, and subsequently analysed a fortune in the manufacture of fire-arms.

Whittaker, Sir Thomas P. (b. 1850), M P. for Spen Valley since 1852, and one of the loaders of temperance reform, being chairman of the Temperance Legislation League Was kinghten in 1900.

Whittier, John Greenlend [1857-1850], America's Quaker poet, was the son of a New England farmer, and for a time followed the trade of a shoemaker.

Then, after some experience in journalism, he published his first book of poems "Legends of New England" (1831), which was warmly received both for the strong abolition sentiment it expressed, and for its worth as poetry. His ideals were high, and he lived up to them, His best known volumes are, "Lays of My Home" [784,3], "Voces of Freedom" (1840), "Sougs of Labor" (1850), and "National Lynes" (1859).

Whittington, Sir Richard (crea 1758-1423), the son of a Glouestershire knight who was outlawed. Richard went up to be apprenticed in London, and there found fortune and fame eventually as a mer-Thrice Lord Mayor and representative of chant. Three Lord Mayor and representative of the City in Parliament, he was a great man in his time, engaging in many profitable and honourable enterprises. Sir Richard was well styled "the model merchant of the Middle Age," and he did marry his master's daughter, and no doubt drew some sort of Inspiration from the hells of flow.

Whitworth, Sir Joseph (1893-189), an English manufacturer and inventor of guns and artillery who was born at Stockport, and brought out in 1858 the rife bearing his name. In 1868 he founded the Whitworth scholarships which have done such splen-

did service.

did service.

Thymper, Edward (1840-1911), a wood-engraver and artist, who was also one of the be... known Alpine climbers, being the first to reach the summit of the Matterhorn. His books on mountainering in various countries are fascinating alike for their literary merits and their pictorial value.

Whyte-Melville, G. J. (1821-1878), a novelist of country life and breezy action, who had been a capitain in the army before he turned to authorship. He wrote many stories, among the best policy Grand, The White Rost, and Good for Nothing.

Walland, Christopher (1773-1813), German poet and miscellaneous writer; "Oberon," an epic, was his best poem; his most notable prose romance The

Golden Mirror. He was Professor of Philosophy and Literature at the University of Erfurt
Wilberforce, Yen. Archdeacon Basil (b. 1841),
Chaplain to the House of Common since 1866,
son of the late Samuel Wilberforce, Ristiop of Oxford

and Winchester. A great temperance champion,

son of the late samele underforce, insulop of Oxford and Winchester, A great temperance champion, and an eloquent speaker.

Wilberforce, Samuel (1805-1873), father of the Venerable Archdeacon last named, was the son of William Wilberforce. Educated privately and at Oriel College, Oxford, he took orders, and after achieving distinction as a preacher and High-Church writer, in 1845 became Bisliop of Oxford. He was an indefatigable worker, a trenchant writer and speaker, and one of the most esteened prelates of his time. In 1869 he was translated to the bisliopric of Winchester.

Wilberforce, William (1755-1833), was the son or a Hull merchant, and inherited a considerable fortune on reaching manhood. He was educated at Cambridge, and entered Parliament in 1780. From the first he identified himself with the emancipation question, and in 1789 made the first of his many proposals in the House of Commons for the abolition of the slave trade, but it was not until 1807 that an Act

of the slave trade, but it was not until 1807 that an Act

embodying these proposals was carried.
Wilfrid, St., 634-703), An English erclesiastic, who
took the Koman side at the Synod of Whitby in
66, and was made Archbishop of York the year
following.

Wilkes, John (1727-1797), was a forcible, daring, and original politician, who championed the cause of and orginal politician, who committee the test with great vigour, and was or a time exceedingly popular. For a violent attack on the Government in his paper The North Briton, he was committed to the Tower, but obtained release on the ground that he was a member of Parliament. He was then sued for libel, and retaliated by reprinting was then said for abot, and retailed by reprinting the paper containing it. He also got into trouble for publishing an Evray on Woman of a very objectionable nature, and was expelled from the House. He then went abroad, and remained away for some years, but in 1708 returned, and not long afterwards was elected M.P. for Middlesex. A fresh prosecution, however, and a fresh expulsion took place, and three times was he expelled and as often place, and three times was ne expended and as often re-elected. A great agriation ensued, and so high was he in favour among the people, that he was made alderman, then sheriff, then Lord Mayor of London. In the end his opponents gave way, the orders against him were withdrawn, and from 1779 he was Chamberlain of the City of London.

he was Chamberlam of the City of London.

Wilkie, Sir David (1985:1841), was an entinent
R.A. whose paintings of popular subjects, mostly of
rural life, were highly successful. Many of these
works were engraved, including "The Village
Politicians," "The Kent Day," "The Bind Fiddler;
and "Blind Man's Buil," and had an immense vogue.
In later life he chiefly painted historical subjects.
In 1830 he was appointed painter in ordinary to the
king, and was knighted six years later.

Wilkinson, Sir John Cardner (1797-1875), an
English Oriental archæologist, who spent many
years in explorations and excavations in Egypt, and
threw much light upon the land of the Pharaohs and
tis ancient history. Amongst the numerous valuable

years in exponentions and extended in Egypt, and its ancient history. Amongst the numerous valuable works, published as the result of lux enthusiastic investigations were The Architecture of Ancient Egypt, Materia Hierogtyphus, and The Egyptiens in the Time of the Pharabas.

William I. (1007-1087), better known as "William the Conqueror," was Duke of Normandy when he claimed the throne of England as legally appointed successor to the Confessor. The claim was resisted by Harold Was slain and his army routed, gave the victory to William, who in due course was crowned in Westminster Abbey. The story of his life and reign is the story of the crusting of Saxon power, the parcelling out of the country among his Norman followers, and, for the rest, a firm rule that made England respected, and settled this country as a great Power among the nations.

William I. of Prussia (1797-1888), the maker of

modern Germany. Succeeded to the throne of Prussia in 1851, and it fell to him to have the control of his country during a period of mighty transition and development, with Blamarck as his chief minister. The war with Austria which signalised the opening year of his reign rendered him highly popular, and when in 1870 lie war with France was entered upon the whole German people rallied round him, and after a series of brilliant achievements by his army he was proclaimed German Emperor on the 18th of January, 1871.

William II. (1056-5100), the Conqueror's son, surnamed "Rulus," was king of Empland from 18th of 18th

the army and took a keen interest in unlitary attairs. succeeded his father, the Emperor Frederick, in 1888. His reign has been marked by a strong militarism and an intense ambition to secure the dominance of Germany is the Councils of Europe an ambition which by unscripulous action and utter disregard of treaty obligations brought about the present war-the most destructive in the history of the world. To him is due the introduction of a system of war savagery which greatly increases the horrors of warfare and must leave an indelible stam upon his name. Visited England in 1667, was present at King Edward VII's funeral in 1660, and in 1911 at the unveiling of the memorial to Queen Victoria

Victoria William III., of England (1650-1760), while Stadt-bolder of Holland, married Mary, eidest daughter of the Duke of York (afterwards James II.). As capitain-general of the Dutch forces he was since, soful against the French, and in 1688, when Jaimes had abdicated and fed the country, Wilham was marted to succeed him, and he amo Mary afterwards best me joint King and University. There was resistance in Scotland and Irlanda however, when the Stuart joint King and Liven. There was resistance in Scotland and Ircland, however, where the Stuart cause was still espoused, but by tesolute action James's cause was detected in Ircland at the Battle of the Boyne, and in Scotland by newsares that were not wantage in cruelty, as was shown in the Massacre of Glencoe. Later he was at war with France, and suffered defeatly, but ultimately gamed the upper land and effected an anonorable peace by the Teaty of Ryswick, in 109.

William of Malmesbury, the 12th century English historian, to whose Gevia Regium Art, century English historian, to whose Gevia Regium Art, century and others we one so much of our unformation regarding the carly history of England William the Silent (1534-1634). Prance of Orange, who by his fine generalship and personal bravery, after a portracted struggle, succeeded in freeing the Netherlands from the poke of Spain. His meksame resulted from his habit of complete secree regardof the Boyne, and in Scotland by measures that were

resulted from his habit of complete secrees regarding his plans of operation u til the moment of their

ing his plans of operation u til the moment of their bong put into effect.

William IV. of England (1767-1327) was the third son of George III., and ascended the throne in 1830 in succession to his brother, George IV. He had seen some-ex-a service, and was futtening; styled the "Sailor King." During his brief seven years' reign he showed hithe of kingly c₁ kirty, but was genial and pleasure-loving, and placed no obstacles in the way of government, so was, at or a sort, popular. It was in the early part of his right (1832) that the first great Reform Bill was passed

Williams, Bir George (1831-1905, the founder of the Young Men's Christian Association, and an

the Young Men's Christian Association, and an assidnous temperance and social reformer. A London

assiduous temper-nice and social reformar. A London drapery warehousement in a large way of business, who was a personal factor of great good in an influential sphere during the Victorial era.

Williams, John (1795-1839), the martyr-missionary to the South Seas, who was murdered at Erromanga by hostile natives. He was brought up in North London to the ironmongery trade, but entered the ervice of the London Missionary Scietty, and devoted himself zealously and with great capacity to

the pious work of carrying Christianity and good government to the South Sea islanders. Williams, Bir Monler (1890-1899), a great Sanskrit scholar and Professor at Oxford, who translated the Sakuntala, wrote grammars and dictionaries of Hundustam and Sanskrit, and genorally laboured with distinction in bringing westward the wisdom of the Orient.

wisdom of the Orient, Williams, Roger (1600-1684), a Welshman who went out to New England in 1031. Originally in Anglican orders, he occame a Puritan preacher, and obtained orders, he became a Puritan preacher, and obtained great political and personal influence, founding the first Baptist Church in America. He obtained a charter for the colonisation of Rhode Island in 1644.
Williams, Rt., Rev. Watkin Herbert, M.A., since 1899 Bishop of Bringer (L. 1845). Ordained 1870, Dean of St. Asiph, 183-2-9.
Willingdon, Lord, 1st Baron, of Ratton, Freeman Freeman Thomas(b. 1863), appointed Governor of Bombay, 1914.

Freeman Freeman Thomas (b. 186), appointed Governor of Bonday, 103. Was Junor Lord of the Treasury, 1905 23, and, as Mr. Freeman Thomas, was M. P. for Hastings 1900–19 d, an I for Bodman 1905–290, being rased to the persage in the last-tuning year.

Willis, Nathaniel Parker (1807–1807), was an American writer of mark. His first real success was obtained with Pensilings by the Way, a series of sketches of hiving European celebrities and scenes. The best of his other works were the Striggtby Parkers and Darker at Lye. His sister, Sarah Payson Willis (1811–1872), acquired celebrity as "Panny Fern."

Willioughby, Sir Hugh (d. 1954), a 16th century English havingtor, who was the first to open in British trade with Russia by way of Archangel, and later led an expedition fitted out by London

and later led an expedition fitted out by London merchant adventurers for extending discoveries in northern lattudes, but the whole of his force nerished in a storm off the coast of Lunand

Wilson, Alex. (1765-1613), a Payley weaver who suffered improposate for writing lampoons respecting a dispute between masters and men in his native town, and went out to Philadelphia, where he tramped about and obtained an intuition with the life of the woods, which resulted in his publication of a seven-

dume work on American Ornitho. ory.

Wilson, Andrew (52 rogs, 19h.D., MB, 1 R's F, Lecturer on Physiology and Health to the George Counte Prust, and Gilchrist Trust Lecturer, was a write on medical subjects. His Modern Physician ittained great popularity. His opinion of Pears' Scap is corth recording here. He saidthat

of Pears Scapes orth recording here. He saldthat "mo purer article of its kind had ever been offered "Mison, Admiral Sir Arthur, C.C.B., th. 1821), was Commander of the Chamel Fleet from 190 to 197. Served in the Criman War, 1845, indie elsewhere, and was promoted from Captain to Rear-Admiral 1928, ye a Admiral, 1926, and Admiral, 1925. First Sea Lord 1928-12.
Wilson, Sir Damlet (18th-1828), a Scottish-Cinadam archeologist, poet and scholar. Professor of History and English Interatine at and subsequently President of Totonto University. Wrote Memorials of 1 authority in the Orden Time, Archeology and Privisions Annals of Sodiand, Calibon, The Missing Link, Tac New Mannis, etc. Wilson, Sir Erasquia 1929, 1824, in enument

Causem, The Misting Link, The New Mannis, etc. Witson, Sir Ersemina thes (884), an enument physician and specialist in skin descree, first Freesor and founder of the chair of Demantology at the Royal College of Singeons. Automot a Teamend disquisition on the desce of the epidermis, respecting which he was the leading, authority of his time. He prominiced Team's Soap to be "one of the most agreeable and refreshing of balms for the skin, and Calculated to preserve it in health and maintain its complexion and tone." Transported "Cleopatra's

complexion and tone." Transported "Cleopatra's Needle" to London at his own cest from Alexandria. Wilson. George (1818-1876), Reguss Professor of Technology at Edmburgh University, and Director of the Industrial Misseum of Scotland; a distinguished cheffirst and President of the Physical Society; published valuable Researches on Colons-Bradiers, and many scientific, biographical, and other works of an important and popular character. Wilson, Bir Guy Pleetwood (b. 1851), Assistant Under-Secretary of State for War in 1898, and since

1904 Director of Army Finance. Finance Minister, Council of India, 1908-13, and Vice-President of the Legislative Council of India, 1911-13. A great de-partmental administrator, who was Lord Kitchener's financial adviser in South Africa.

financial adviser in South Africa.

Wilson, John (1985-1854), was a highly esteemed writer who, as "Christopher North," contributed Noctes Ambrosiana and many other essays, stores, and criticisms to Blackwood. He had £300 a year from the Civil 1.st, and for thirty years was Professor of Moral Philosophy at Edmburgh University.

Wilson, Richard (1914-1982), a landscape and portrait panter who attained considerable eminence, and was one of the first members of the Royal Academy. He was a network flowly company the was a network flowly company to the statement of the Royal Academy.

and was one of the first members of the Royal Academy. He was a native of Montgomery-hire.

Wilson, Woodrow, Ph.D., Litt D., Ll.D., President of the United States, elected by an over-whelming majority over Taft and Roosevelt at the election of Nov. rorz (b. 1895). The first democratic president since 1890. Has held professorships of History, Politica and Jurisprudence at various American universities; and was Governor of New Jersey, valuate, the rore was Governor of New Jersey, 1711-12. In 1913 carned a considerable measure of Tariff reduction; and in the same year took up a strong attitude against General Huerta, Provisional President of Mexico, whom he decimed to recognise, in April, 1914, sent ships and troops to Mexico to avenge insult to U.S. flag.

Winckielmann, Johann (1717-276%), classical scholar and writer on art, born of poor Prussian parents; became librarian to Cardual Alban at Rome, and produced some very learned disquisitions on art and history. Was assassinated at Treste.

Kome, antaproduced some very readent magnetic son art and history. Was assassinated at Trieste.

Wingate, Major-General Sir Francis G. (b. 1861). Sirdar of the Egyptian Army and Covernor-General of the Sudan since 1809. A soldier of experies and distinction in unitary expedition to the Nile and its neighbourhood. He was Kitchener's chief Intelligence Officer, succeeded him as Sirdar, and completed the rout of the Khalifa.

Winifred, St., the patron sunt of virgins, a
Weish maiden who, importuned by Prince Caradoc,
treated him with scorn, and he had her beheaded.
The well of St. Winifred in Flantshire is supposed to

The well of St. Winifred in Finitsnire is supposed to indicate the spot where she perished.

Winkairied, Arnold won, a Swiss patriot who is said to have decided the victory of his compatities against the Austrians at Sempach in 1386 by grasping the pikes of a number of the opposing host and burying them in his breast, thus creating a gap in the ranks, through which the Swiss rushed over his body to triumph. The heroic deed is scouted by many modern investigators as a baseless tradition.

many modern investigators as a base less tradition.

Winthrop, John (1987-164), an English Colonial
governor who in 1629 settled at Boston, where he was
for some time in suprenic authority. He opposed
Vane and the Antinonians, wrote a History of New England, and A Model of Christian Charity.

Piscara, and A Moset Official Charity.

Isaman, Cardinal (1802-1805), a Roman Catholic
dignitary of commanding ability; born at Seville;
subsequently Vicar-Apostolic at Rome, eventually
Archbishop and Cardinal at Westminster. Chefamong
his learned withings are his Hore Syruce, Letters on the Catholic Church, The Connection between Science and Revealed Religion, and The Real Presence.

Wishart, George (circa 1500-1546), a Scottish school-master and associate of John Knox the Reformer; was one of the Commission sent by Henry VIII. to Scotland to endeavour to arrange a marriage treaty between the boy Prince Edward and we infant Queen Mary, and vigorously joined in the preaching

Queen Mary, and vigorously joined in the preaching of the Reformation until he was burnt at the stake.

Wither, George (1988-1667). Puritan poet and satirist; committed to prison for publishing his pungent "Abuses Stript and Whipt" in 1613. Espoused the popular cause in the Civil War, and commanded a troop of horse. Again incarrerated after the Restoration for writing "Vox Vulgi." Some of his poetry possesses much purit

of his poetry possesses much merit.

Witte, Gount Sargius de (h. 1249), the Russian statesman, began lie in a humble position in the railway service but showed such striking capacity for organisation that he rose high and was made

Finance Minister of the Empire in 1896. Under his direction the Siberian railway was constructed. He is a man of liberal tendencies, and the maker of industrial Russia. He is descended from a family of Dutch emigrants to Russia. He negotiated the peace with Japan after the failure of the Czar's operations in Manchuria, and was created a Count and called to the Premierality, but resigned in 1906. Woffington, Pag (1700-1700), an Iriah bricklayer's daughter, who became a cylobrated actress, and was great at the impresonation of male characters.

was great at the impersonation of male characters and a fine singer. She also shone in the round of and a me singer. Site area shorter in the round of Society-lady and high-consedy parts, and was much sought after in private life by people of rank and talent. For a while she lived with Mackin and Garrick in Bow-street, and atoned a good deal for her lack of moral restraint by her abounding charlty. She was stricken with paralysis whilst playing Rosaluid in 1757.

Rosaluid in 1757.

Woloot, John (1758-1819) was in turn doctor, clergyman, and author, settling in London in 1781, where he soon began to attract notice by various topical saturcal effusions, many of them directed against George III. Writing under the pseudonym of "Peter Pindar," he poured forth a rapid succession of pungent satrical ballads, odes, epistles, and what not. He sold his works for an annuity of £250.

Wolf, Friedrich (1759-1824), a great German scholar, rogarded by some as the founder of scientific classical philology. A student at Göttingen, he was Professor at Halle for a quarter of a century, and was later in the Government service at

a century, and was later in the Government service at Berlin. His great work was the Prolegomena in Homerum in which he maintained that the 'liad' and the ''Odyssey'' were the joint productions of many rhapsodists.

Wolfa, Charles (1791-1823), was an Irish clergyman

Wolfe, Charles 1792-1823), was an Irish clergyman and writer whose literary fame was won by a single poem, "The Burnl of Sir Jehn Moore." The splendid elegy first appeared in the Newry Telegraph in 1817. The poet died of consumption. Wolff, Gennral James (1727-1726), commanded the Britsh forces in Canada at the siege of Quebec, where he won a brilliant victory, which cost him his own life. He was burled at Greenwich and a monument to him exists in Westminster Abbey. Wollasston, William Hyde (1766-1828), a celebrated English chemiat and physicist, President of the Koyal Society in 1820. Discovered rhodium and palladium, the dark lines in the solar spectrum and the ultra-violet rays, invented the gomoneter and the camera lucida, and carried out many important investigations in olectricity and optics.

the camera uncar, and carried out many important investigations in obscricity and optics.

Wolseley, Viscount (1833-1913). Entered the Army in 1852 and 5-sw active service almost from the first, being in the Burnese War of 1852-1853, and immediately atterwards in the Crimean War. Subinductivity afterwards in the Comean Mutiny, and served in China in 1860, by which time he had risen to the rank of Lient. Col. In 1870 he had command of the rank of Lient, Col. In 1870 he had command of the Red River expedition, and in 1873 led the expedition against the Ashants on the Gold Coast. Governor next of Cyprus and of Natal in succession, he was entrusted with the command of the South African War of 1879-1880, of the Fryptian Expedition of 1884, and of the Gordon Rehief Expedition of 1884, Was made Adjutant-General in 1855, Commander of 1874 led 1870, Field-Marshal, 1894, and in 1895 succeeded the Duke of Cambridge as Commandering Chef. which possition he held un root, when Earl

succeeded the Duke of Cambridge as Commanderin-Chief, which position he held in 1001, when Earl
Roberts succeeded lim. He was the author of
several books, including a Life of Mariborough and
The Decisive and Fail of Naphoton, and was a
member of the Order of Merit.

Wolsay, Cardinal Thomas (1471-1530), was the
son of an Ipswich butcher. Showing ability, he
was sent to Oxford to be educated, and later on
entered the Chürch, where he gradually rose to a
position of eminence, and was entrasted with several
diplomatic missions. He was especially favoured by
the King, Henry VIII., and secured rapid preferment under that monarch, being in turn Bisliop of
Lincoln, Archbishop of York, and Archbishop of
Canterbury. Then he was made Cardinal and

became Henry's Chancellor. For a number of years he was supreme, and by his diplomacy did much to strengthen the kingly power. But when Wolsey was unable, though willing enough, to obtain the papal sanction for Henry's divorce of Katharine, he fell into disfavour, and his decline was rapid indeed. From being a great personage, with a princely entourage, he was humbled, persecuted, and harried, and died at Leicester Abbey a broken deiected man. broken, dejected man.

cuted, and narried, and died at Leicester Abbey a broken, dejected man.

Wood, Anthony & (1632-7695), a famous English antiquary, the historian of Oxford University, and biographer of its worthies. He attacked Clarendon and was expelled from Oxford in consequence, whilst his pre Jacobite prejudices involved him in violent controversies.

Wood, Sirne yellym, Field Marchal, V.C. (b. 1838), who retired from the army at the end of 1904, began his career in the Navy, in 1852, and was in the Crimea in 1855. In 1852, he joined the Army as a corner in the 1814 Light Dragoons, and six years later was promoted captain in the famous "Death or Glory Boys." In the Indian Mutiny served as brigademajor, and won the Victoria Cross. In the Ashanti War of 1873 he gained much distinction, and was made C.R. In the Zulu War of 1879, he wis specially commended, and given his K.C.B. Sir Evelyn's next service was in the Boer Vur of 1880-81. One of his finest achievements was the raising of the Egyptian Army, of which he was made Sirdar after the espedition to Egypt of 1882. He has also been Quartermaster-General. Adjustant-General, and, in the absence of Lord Kolverts in South Africa, was Acting Commander-in-Cluef. He has written lucidly on the Crimean campaign, and with considerable services was lived a service. Acting Commander-in-Clinef. He has written lucidly on the Crimean campaign, and with considerable professional skill on cavalry matters. Wrote a series of articles in the Times on the Indian Mutiny. Appointed Constable of the Tower, 1911.

Wood, Sir Henry J. (b. 1870), the most popular of present-day English musical conductors. After filling the position of organist at St. Mary's, Aldermanhurs, and other places, and conductors.

manbury, and other places, and conducting numerous opera and concert companies on tour and in London, he started his Queen's Hall concerts in 1895, which

has done more than any other enterprise for the cause of high-class music in L-mdon. Knighted, 1917.

**Tood, Mrs. Henry (1814-1887), was a proinfe Victorian novelist. In 1860 she won a prise for a temperance story, Danesbur, House, Next she wrote East Lynus, the most popular of all her works, which at once established her fame. After that she wrote novel after novel, and attained a high degree of the complete heaversheld as highlight and caree the content of the co

of success, being seldom brilliant, and never dull.

Worcester, Marquis of (1600-1607), was the first of our noblemen scientists, whose quant and instructive, work, A Centery of Inventions, contained the foreshadowings of many later inventions of importance notable the transmission. tance, notably the steam-engine. He was a devoted Royalist, and sacrificed much in the King's cause.

Wordsworth, Charles (1806 1892), second son of Christopher Wordsworth, Master of Trinty College, Cambridge, and nephew of William Wordsworth, was educated at Harrow and an voorusworii, was educated at narrow and a Oxford. He was for some years second master of Winchester College, and produced a Greek Grammar that was long regarded as a standard work. He was elected Bishop of Sr. Andrews in idea, and retained that lugh office until his death.

1893, and retained that high office until his death.

Wordsworth, Christopher (1774-1846), father of
the last-named, and brother of the poet, waeducated at Hawkshed Grammar School and at
Trinity College. He became Domestic Chaplain to
Manners-Sutton, Arthrbshop of Canterbury, and
enjoyed many other preferments. In 1820 he was
made master of Trinity College, holding that
position until 1841.

wordsworth, Christopher (1807-1885), was the youngest son of the last-named. He had a distinguished career at Winchester and Trinity College, graduating in 1830 as senior classic. In 1836 was appointed head-master of Harrow; in 184, the became Canon of Westminster; in 1865 was nominated Bishop of Lincoh, resigning the see in 1885, and dying the same year. He was a voluminous author, his chief work being a commentary on the Old and

his chief work being a commentary on the Old and New Testaments.

Words worth, William (1770-1850), the chief of the "Lake Poets," and one of the most inspired of all British bards, was a native of Cockermouth, and was educated at Hawkshead and St. John's College, Cambridge. In association with Coleridge he issued a volume of "Lyrical Ballads" in 1798. The following year saw hun settled at Grasmere, and there and at Hydal Mount he passed the rest of his days. In 1800 he marned Mary Hutchinson, his cousin, and the two, with the poet's sister Dorothy, formed an ideally poetic ionschold. Here he carried out his creed of "plain living and high thuking," and produced at intervals some of the purest and noblest the large ugo. As an interprete; of nature poetry in the language. As an interpreter of nature in her many mouds he stands unrivalled. From 1813 to 1842 he was stamp distributor for Westmorland, and succeeded to the Poet Laureateship on the death of Southey in 1813, enjoying thenceforward to his death a pension of £500 a year.

Woodville, Elizabeth (1437-1492), a daughter of Sur Richard Woodville, and wife of Sir John Grey, played a prominent part in the historical events other time. After her first husband's death she made a secret marriage with Edward IV, and became the matter of Edward V. and his bettler Prince, both of mother of Edward V. and his brother Prince, both of whom were put to death in the Tower by order of Richard III. She was also mother to Elizaleth.

Queen of Henry VII.

Wornum, Ralph Nicholson (1812-1877), for many years keeper of the National Gallery, was a native of London, and early displayed great interest in art matters. Wis a portrait painter for a time, but later became a writer and lecturer upon art. He entered upon ins duties at the National Gallery in 183, and did nuch to develop and improve the Tratalgar Square. We have no positions and painters are of gallenes. His books on painting and painters are of

great ment

Wotton, Sir Henry (1568-1630) whose life was
written by Izaak Walton, was in Flizabeth's reign
Secretary to the Earl of F. sex, and under James I. was for twenty years in the diplomatic service. In 1624 was made Privost of Eton, a position which he held for niteen years. He was a position which he held for niteen years. He was a poet and Latin pan-phileteer, and wrote a book on the Elements of Architecture, and another on The State of Christopieth. Christender

Wotton, William (1666-1726), a scholar of marvel Your manner (1007-1720), a scionar of marved to be precounty, who was entered at Cambridge University in his twelfth year, took his B.A. a year later, then knowing thelve kinguages, and was fellow of St. John's at pueleen. Wotton became a clergyman of some distinction, and is best remembered as an author by his Reflections upon Amenet and Modern Laterature.

Wouvermans, Philip (1612-1568), a Dutch painter of landscapes and hunting scenes, whose works are much appreciated by connoisseurs for their breadth and annuation of treatment.

and animation of freatment.

WYEXELI, Sir Nathaniel William (1751-1851),
baronet, whose memors are of importance for it
sidelights they throw upon the hactory of the later
Georgian period, was born in Bristol and educated
there. He was an indefaugable traveler, and moved
in the best society in various countries. His books in the dest society in various countries. His books of gossip are entertaining, though perhaps not too reliable. He was M.P. tor Hindon from 1760, and afterwards sat tor Wallingford. The baronetry was conferred upon him in 1813 upon the nomination of

conferred upon him in 1813 upon the nomination of the Prince Regent.

Wren, Sir Christopher (1632-1723), the most famous Engshs harchitect of his time, who had unique opportunities, and mainly made a masterly use of them. St. Paul's Cathedral—as his epitaph appropriately implies—is his best monument. Heddd not quite have all his own way with the tremendous thirty-five years' task he accepted in undertaking the reconstruction of St. Paul's after the Fire, but he produced a masterpiece of which Britain may well be proud. Chelsea and Greenwich Hospitals and a number of London's finest churches were also Sir Christopher Wren's work, and very

beautiful most of it is. He was President of the Royal Society, and Surveyor-General until some scurvy passing political preferences deprived him of the latter office, and he rests beneath the magnificent cathedral he reared "in London's central roat."

central roar."

Wright Joseph (1734-1797), usually styled
"Wright of Derby," was a painter of note, who
produced many pictures of the "candlelight" order,
and won much success also in landscapes, portraits,
and figure subjects. His "Air-pump," in the
National Gallery, is considered his masterpiece.
Wright, Thomas, F.S.A. (1810-1877), a wellknown and industrious antiquary, was a native of
Bradford in Yorkshire. He was educated at Truity
Colleye. Cambridge, and from 1826 lived mostly in

College, Cambridge, and from 1836 lived mostly in London, occupying his pen in the production of a notable series of antiquarian studies. His works

comprise 129 separate publications.

Wyatt, James, R.A. (1746-1813), a celebrated architect in his day; President of the Royal Academy in 1805, succeeded Sir William Chambers. as Surveyor-General to the Board of Works He

as Surveyor-Leneral to the Hoard of Works He
huilt Fonthill Abbey for Beckford, and the Koyal
Military Academy at Woolwich.

Wyatt, Sir Thomas (1503-1542), was the first
writer of English sonnets, and a poet who did much
to develop the earlier forms of rese. He wa also a
distinguished diplomatist and was employed by

to develop the earlier forms of verse. He was also a distinguished diplountaits and was employed by Henry VIII, on several important missions. Wyatt, Sir Thomas ("The Younger"), b. 1520, executed 1554; Joined with the Duke of Suffolk in favour of Lady Jane Grey and against Queen Mary. Son of the last-mentioned. Led the men of Keut in rebellion on London in 1554, but was captured, and with many of his followers suffered death.

Wycheriey, William (160-1715), the Restoration dramatist, was for many years in high favour at Court. His genius for comedy writing was remarkable, and readily adapted itself to the Restoration atmosphere; thus while he provided wit and intigue and plot and characterization in plenty and of great merit, the taint of the time was over it all. His plays include "The Country Wife," "Love in a Wood," "The Plain Dealer," and "The Way of the World." He lived recklessly, was generally in pecuniary difficulties, and, marrying the Dowager Countess of Drogheda late in life, placed himself in bondage to a highly jealous woman.

Wyolif. John (1924-7364), was born in Yorkshire, educated at Oxford, and became one of the most eminent ecclesiastics of his time. He adopted the principles of the Reformation, and on that account transcript down upon biuself the better remute of the

principles of the Reformation, and on that account brought down upon himself the bitter enmity of the Roman Catholic leaders, and would probably have been put to death but for the protection of John of Gaunt. It was while in comparative retirement as Rector of Lutterworth, in Leicestershire, that he finished his translation of the Bible.

minished his translation of the Bible.

Wykeham, William of (1;24-1404), was Bishop of Winchester from 1366 to his death, and from 1367 to 1371 to 137

Typical and the Charles (b. 1841), who concated for the medical profession, took part in the American Civil War, then went on the stage, and migrating to London in 1888 began a highly successful career. Was for a long time lessee of the Criterion Theatre where he brought out "Pink Dominees," "Betsy," and other plays of that class with great ac plance. Now proprietor of Wyndham's Theatre, and the New Theatre. Was knighted in King Edward's Commation Year.

Coronation Year. Hon. George (1863-1913). Educated at Eton and Sandhurst and was for a time in the Guards, but feeling drawn towards a political in the Guards, but feeling drawn towards a political career became private secretary to Mr. Balfour in 1889 and in 1880 entered Parlament as Member for Dover. In 1898 he became Under-Secretary for War, and in 1902 was made Chief Secretary for Ireland with a seat in the Cabinet. He had a large share in the passing of the Land Act of 1903 and resigned hie Ministerial position in 1905 when

attacked over the MacDonnell incident in connection with the "Devolution Schene." He married the Countes Grosvenor, mother of the Duke of Westminster, in 1889, and was chosen Lord Rector of Glasgow University in 1902.

Wynn, Bir Charles Watkin Williams (1797-1890), was a well-known politician. From 1872 to 1828 he was President of the Board of Control and Cabinet Minister. Displaced by Wellington he went over to the opposition. He sat in Parliament to the year of his death, and is said to have thrice declined the Governor-generalship of India.

Xantippe (flourished 5th century B.C.), the irascible spouse of the Greek philosopher Socrates, and the type of the scolding wife.

Xayier, St. Francis (1506-1552), the apostle of the Indies, was the follower of Ignatius de Loyola, and devoted his life to missionary work in the East with unbounded success. He was canonised in 1622.

Xenogrates (436-314 B.C.), a Greek philosopher and the disciple of Plato; he succeeded Spensippus as head of the Academy at Athens, over which he presided for a quarter of a century.

presided for a quarter of a century.

Kenophon (444-398 B.C.), the Athenian general and follower of Socrates, accompanied the Greek army under Cyrus the Younger in the march against Artaxerxes, and after Cyrus's death, assumed the command of the Greek troops, and conducted the famous five months' retreat through a mountainous hostile country to Trebizond In his Anaoasis he describes this expedition with graphic unmuteness. In the war between Sparta and Persia he Jeclared against his own country and was banished. Most of his works were written in the days of his exile at Scillus. He afterwards lived at Corinth. His chief works are Anabaris. Hellenna, and Cyrobedia.

Scillus. He afterwards lived at Corinth. His chief works are Anabaus, Hellenna, and Cyropedia.

Xerxes [carca 519-465 B.C.], King of Persla, was the son of the first Darus, and a great commander. In 48r B.C. he started on his famous expedition against Greece, when, according to Herodotus, he had a combined army and navy of over two and a half million men. He defeated the Synataus at Theomeurical Medical Control of the Control of the Starten of the Control of the million men. He defeated the Spartans at Thermopylæ, but his fleet was overcome at Salamis. He reigned from 485 to 465 B.C. and met his death

y assassination

Ximines, Francisco (1456-1517), a Spanish states-man and Cardinal who, after being Queen Isabella confessor, became Art hiship of Toledo, Provisional Regent of Castle, and Cardinal and Inquisitor-General in 1507. He printed the Compiutessian

Polygiot Bible.

Ximines de Quesada, Gonzalo (b. 1408), a Spansh lawyer who undertook an expedition to and became the conqueror of New Granada in 1538. Later he went up the Orinoco valley in quest of El Dorado, and some accounts say he died a centenarian, but that is doubtful.

Yamagata, Field - Marshal Prince, is a Japanese statesman of very considerable ability and astituteness, and a soldier also of some provess. In November, 1898, he was at the head of the Imperial Government, forming a Cabinet on the old lines of Lananese clan statemen when benduced for Japanese clan statesmen, which endured for two years, he then giving way to the Marquis Ito, the chief of the Constitutional Political Party. Later he hecame a Privy Councillor of the Mikado, and made Prince in 1907.

Prince in resp.

Yates. Edmund (1831-1804), an able English journalist and novelist, who was the editor of **Instity's Magazine* in 1867, and established **The World in 1874, which he made a powerful Society political and literary weekly. He was the London correspondent for some years of the **New York Tribine*, and also at one time acted as Special Correspondent of the **New York Herald at Vienna and St. Petersburg. His novels were many and clever, including **Black Sheek, **Porken to Harness, For Better, For Worse, and *A Wasting Race.**

Yarkes, Charles Tyson (1840-1905), was born in Philadelphia, and at the age of twenty-one started m business as a stockhoker, achieving considerable success; and, about 1873, became connected with a transvey enterprise in Philadelphia, which he a trainway enterprise in "matucipina, which is developed with great profit. A few years later he settled in Chicago, and there installed a trainway system which realised him a very considerable fortune. From yoor to his death he was mainly resident in Loudon, devoting himself to improving resident in Louisi, nevoting minsent to improving the means of transit in and around the metropolis. He was associated with numerous "tube" and other short railway undertakings, and had managing control of the District system, which he electrified. Yonge, Charlotte (1823-1001). This favourite novelist and historical and miscellaneous writer was

novelist and historical and miscellaneous writer was bom at Otterbourne, and published her immensely popular story, The Heir of Realcyffe, in her thirtieth year, following it with the scarcely less successful Dairy Chain three years later.

York, Archbishop of. (See Lang.)

York, Duke of (Frederlck Augustus), second son of George III. (1935-1837). Comutanded the unsuccessful British Expedition to Holland in 1793-1994 and 1799. Opposed Catholic emancipation, and was in his younger years Prince-bishop of Osnabrick. Osnabriick.

York, Duke of (Richard) Killed at the Battle of Watefield in 1450. He was the son of Richard, Earl of Cambridge and Anne Mortimer, and Protector during Henry VI's Indiccity. A claim on his part to the bleftship to the throne precipitated

on his part to the belrship to the throne precipitated the War, of the Roses.

Youatt, William (1775-1847), the enment naturalist and writer on live-stock, was the son of an Exeter surgeon. He set up a veterinary hospital in London in 1812, and later wrote a series of handbooks on the breeds, management, and diseases of various farm animals. Youatt was one of the founders of the Royal Agricultural Society.

Young, Brigham (1801 1877). The famous Momoni-leader, and head of the Latter Pay Saints of Salt Lake City. Sometime Governor of the Territory of Utah, a position from whith he was removed by President Buchanan, and indicted for rollyzamy in 1877, but not convieted. At his death

removed by Freshoult indictant, and inneted for polygamy in Feyt, but not convieted. At his death he had seventeen wive. He was oliginally a housebuilder sworkman in New York State, but embraced Mormonism in 1831 and became first elder, then aposite, and finally president in 1844 in succession to Joseph Smith

Young, Charles Mayne (1777 1856), a noted actor and a native of I ordon, who from 1802 to 1832 had an almost uninterrupted cureer of success, being regarded as the most distinguished representative of the Kemble school of acting, sharing the honours with Kean and Macready. He had a fine stage presence, and possessed a very musical voice.

presence, at, I possessed a very musical voice.

Young, Edward (1684-1765), an English poet and
clergyman who acquired considerable time as the
author of "Neglit Thoughts," a long didactic poem in
heroic couplets, containing much felicitous moralising
and poetic power. He also wrote a couple of
tragedies, "The Revenge" and "Busiris," both of
which were produced at Drury Lane. He was vicar
of Walven for many wass.

of Welwyn for many years
Young, James (1911-1989), a Glasgow chemist, who discovered the method or distilling oil from shale, and founded the mineral oil industry of Scotland, which led to the development of petroleum concerns in America and elsewhere. He was the founder of the Chan of Technical Chemistry at Anderson's College

Chau of Technical Chemistry at Anderson's College in his native city.

Younghusband. Col. Sir Francis [h. 1863], who headed the British Mission to Tibet in 1003-1904, is Resident in charge of the Muhratta States, India. He is an enterprising ex-Dragoon Guardsnan who has "noof of the world," and elsewhere, and was 7 times correspondent with the Chitral expedition, and also in the Transval and Rhodesis. He was the first British representative to set foot in the "Forbidden City of Llasa."

Yale, Sir Henry (120-1893), an Anglo-Indian military engineer, who was secretary to the British

Mission sent in 1858 to Ava, and wrote a narrative of the expedition. He was a learned Orientalist, and compiled a useful glossary of Anglo-Indian colloquial words and phrases, besider publishing a number of notable travel papers dealing cheffy with Central Asian ground; making, moreover, a fascinating translation of Marco Polo entitled *Catinay and the* Way Thither.

Zadkiai (the angel of Jupiter in Jewish rabbinical lore) was the name assumed by Lifly the astrologer, and also by Lieut, R. J. Morrison, in the prophetic almaneck first issued by hum in 1830.

Zegoskin, Michael (178) 1852, a skifful historical nought and play wright; born at Penzu; sometimes styffed the Walter Scott of Russa. His nost notable book was Yano Mirrodarski, public Led in 1899, Zahn, Theodore (1828), an erudice Biblicae scholar, who wrote iliminatively on the New Testament canons.

scholar, who wrote illuminatively on the New Testament canons.

Zahn, Wilhalm (1800-187), German architect, painter, and critical writer on the art of ancient Pompet, Stabus, and Herculaneum.

Zamella, Giacomo (182.-1828), Italian poet and Professor of Literature in the University of Padua. His "La Conchigha Fossile" was a fine conception, lyrically strong and in touch with the scientific spirit of the are

of the age,
Zangwill, Israel (b. 1864), was educated at a Jews'
elementary school in Spitalfields, and its President of
elementary School in Spitalfields, and its President of elementary school in Spitalfields, and it P. esident of the International Lewist Territorial Organisation, Made a litt with The Fremer and the Painter in 1882; afterwards eithed a short-level but brilliant come weekly called Arne; then began novel writing His Children of the Ghette, published in 1804, The Master (1875), Dreamers of the Ghette, and Ghette Comedies (1074), are works of originality and power. Mr. Zangwill has also written hays, of which Merky Many Jim (1004), are pronument examples. Zeller, Edward (1874), are pronument examples. Zeller, Edward (1874), are pronument examples. Zeller, Edward (1874), are pronument examples.

Published works on Plate and various Protestant theological volumes of power and profundity

Zellar, Jules Bylwain (1820-1906), French historio-graphic; and hegraphical author; his chief works dealing with Italian and German history and the lives of the woman Emperors.

Zeno of Citium was an emment Greek philosopher, who founded the Stoic system. He lived in the rd century B.C., and was a teacher of great influence. He held that vitue was the only good, vice the only evil, and the philosophy claborated on those lines

took deep root.

Zenobia was Queen of Palmyra n the latter part of the 3rd century, and after the murder of her husband King Odenathus, proclaimed herself Queen of the East. This aroused the jealousy of the Emperor Aurelian, and though she showed great courage and ability in opposing him, he ultimately defeated her and took her captive to Rome in 273, and later she

and took her captive to kome in 273, and later save resided in or near the imperial city.

Zenodorus (flourished A D 54-68), a Greek sculptor who executed the colosys of Nero and of Met. ury.

Zenodotus, an Alexandrian Homens scholtr, who lived in the 3rd century R C, and was the first superintendent of the famous library at Alexandrian.

Zephaniah (flourished crea 630 B.C.), the Hebrew prophet who foretold judgments to come to the Jews for their sinfulness, but predicted an ultimate Hebra.c restoration.

restoration.

Zeppellin. Count. German general, served in the Franco-German War of 1870; and in later years has devoted himself with remarkable success to the perfecting of his arr-ship, which in spite of serious disasters, has achieved marvellous flights.

Zeuxis, a famous Greek panter who flourished in the the century B.C. One of his finest works was his "Eros Crowned with Roses," in the temple of

Aphrodite at Athens.

Zieten, Hans won (1770-1848), a Prussian general and divisional commander at Lignv and Waterloo.

Ziethen, Hans Joachim von (1690-1786), a Prussian officer of cavalry, who distinguished himself in the first and second Silesian War, and particularly

in the first and second onesan war, and particularly by a forced march with his Hussar regiment in 1445.

Zimmarman, Ritter won (1728-1795), was a Swiss philosopher who practised as a physician at Hruge, and acquired considerable fame by his book of Solitade, which was full of a sort of sentimental charm Soltinde, which was full of a sort of sentimental charm that was more appreciated in his day than in ours. His reputation as physician and philosopher gained him the friendship of Frederick the Great, whom he attended in his last illness; and of George III. who made him his private physician at Hanover.

Zimmern, Helen (h. Hamiburg, 1846), a charming writer on many literary and artistic subjects, as also a popular lecturer in this country and on the Continent on Italian art.

Zinka, John (1960-1424), a famous Hussite leader, who repelled the Impernalists from Witkow in 1420, and invaded Moravia and Austria, but was slam at the siege of Prabislaw. His exploits were the subject of an ople by Albert Meissner, the Bohemian bard.

Zoffany, John (1931-1810), painter, was a nature of

of an epic by Albert Meissner, the Bohemian hard.

Zoffany, John (1733-1810), painter, was a native of Ratisbon, and came to England in 1738. After a period of struggle, during which he painted clock-faces for a clock-maker in Seven Dals, he began to make headway as a portrait painter and obtained some distinguished patronage. Later he was very successful in a series of pictures of stage-scenes—"conversation pieces" they were called, and included representations of the favourite actors and actresses of the time in their best impersonations. He was made a member of the Royal Academy in 1769, and was thenceforward in high repute. Many examples of his work are to be met with in the various galleries and collections.

Zola. Emile (1860-1002), was the son of an Italian

Zola, Emile (1840-1902), was the son of an Italian cols., Emile (1840-1902), was the son of an Italian engineer, and came before the public as a novelist in 186y with Thérèse Raguin, which at once caused him to be talked about. He then conceived the idea of a series of novels which should depict the history of a Second Empire family in various realistic phases, and began the series with La Fortune des Rougons, in 1871, following with five others. In 1871 he made a higher success by L'Assommore. From that time zvery novel he published had an immense sale. Name, La Debdele, Lowner, Paris, and others appeared in quick succession. In the render-

ing of horror and gloom and repulsiveness Zola had no equal, and he lapsed into deplorable coarseness at times. Zola championed the cause of Dreyfus with great courage. He died from accidental asphyriation.

Zonaras, Johannes, a Greek historical writer who compiled in the rath century a chronicle from the creation down to his own day, and was also the author of commentaries on the Apostolic canons.

Zoroaster is supposed to have lived in the 5th century R.C. As to his real personality, however, we have little but conjecture to go upon. The religious system which bears list name dates back to the days of ancient Persia, and is set forth in the Avestra, the sacred writings of the Parsees, and in the "Gathas" (hymns). Only a few thousand the Coroastrans survive in Persia, but in Index the sacred with the confiction of the creative force of call hinds tends to goodness and happiness, and that Ahriman is the spirit of evil, these two powers being in eternal conflict in regard to the destinies of the human race.

human race.

Zuocarelli, Francesco (1702-1788), a very celebrated Italian artist, who came to England, succeeded, made a handsome fortune, was one of the first members of our Royal Academy, and then returned to his own country. He was greatest in

landscape.

Zumps, Karl (1792-1849), a German classical scholar of distinction, Professor of Roman Literature at Berlin from 1827. He published a very goot. Latin grammar, edited Cicero's orations, Curtus, and Quintihan, and wrote learnedly on Roman autiquities. Zwicker, Daniel (1612-1658), a Dutch Socialan doctor, who published in 1658 a notable book entitled

Irencon Irencoum.

Zwingli, Ulrich (1484-1531), was one of the ablest of the Swiss Reformation leaders. He preached the new doctrine with great earnestness, and wrote several works in support of them. His chief sphere of action was in Zurich, in the cathedral of which city he was preacher. He was killed in a conflict with the Roman Catholics at Cappel.

Zwirner, Ernst Friedrich (1802-1861), an eminent Silesian architect, who restored Cologne Cathedral, and built the fue Apollinaris church at Remagen.

Zylius, Otho won (1588-1656), a zealous Dutch Jesuit and poet of some note in his day

AMERICAN CUSTOMS DUTY.

The following are the customs duties charged on various classes of articles entering the United States:

States:—
Glassware, Undecorated, Fingraved, Cut, or Coloured Glass, 45 per cent. Cutlery, Knives, and Razors, 25 to 55 per cent. Firearms, 25 per cent. Paints and Colours, 20 per cent. Watches and Clocks, 30 per cent. Jewellery, 60 per cent. Cigars and Cigarettes, 25 per cent. and 44.50 per lb. and Internal Revenue Tax. Brandies, Spirits, and

Liqueurs, \$2.60 per gallon. Champagnes, etc., quarts, \$9 60 per doz.; punts and half-punts, rateably. Hosiery, 20 to 50 per cent. Siks and Sik Goods, 40 to 50 per cent. Clima, 50 per cent. Pearls and Precious Stones, 20 per cent. Fans, 50 per cent. Laces and Embroderies, 25 to 60 per cent. Furs, 45 per cent.

Carnets, 20 to 50 per cent.

American residents returning from abroad can only take back with them £20 worth of articles, purchased by them in foreign countries, free of duty.

HOLIDAYS IN THE UNITED STATES.

New Year's Day, January 1, all States, Lincoln's Birthday, February 12 (in ten States). Washington's Birthday, February 22, all States except lows and Mississippi.

Decoration Day, May 30, nearly all States.
Independence Day, July 4, all States.
Labour Day, September (first Monday), most

States.

General Election Day, first Tuesday after first Monday in November, most States. Thanksgiving Day, last Thursday in November, all States.

Christmas Day, December 25, all States.

Christmas Day, December 25, all States, There are many other holidays in separate States, such as the Mardi Gras in Louisiana (February 26), Confederate Day in Tennessee (May 20). Admission Day in California (September 9), and so on; but strictly speaking there is no national holiday, not even the Fourth of July. For commercial purposes, certain days have been recognised as holidays, but there is no general statute on the subject, and even the proclamation of the President appointing a day of thanksgiving, including territories, makes it a legal holiday only in those States which provide for it by law.



Pears' Classical Dictionary

A knowledge of the Classics may not be a necessity to success in business, or in any other sphere except a purely scholastic one. At the same time, it greatly adds to one's enjoyment of literature, art, and conversation to possess some acquaintance with the imaginary characters, places and in idents of the ancient mythology which has been such an inspiring influence to writers of all ages. Few people outside literary and educational workers have opportunity or leisure sufficient to acquire or keep up a knowledge of this particular branch of learning. Thus, it may be useful to present in dictionary form the stories in brief of the Classic gods, goddesses, herces, and her oines of the old Grecian and Roman literature. It will help to a better understanding of the countless references which are made from time to time in the literature of the day to Classic subjects. It is a great wonderland of poesy and romance, and forms a realm all its own.

Abs., a town of Phocis, famed for its oracle of Apollo. drop from the trees

Abarbarea, a Naiad, mother of Æsephus and Pedasus.

barimon, a district of Scythia, where the people had toes behind their heels, and could only breathe their native air

Abna, a son of Metanira, changed into a heard for laughing at Ceres. Also the name of the twelfth king of Argos, father of Proctus and Acrisius by

Abastor, one of Plutus's horses

Abderus, armour bearer to Hercules. He was torn to pieces by the mares of Diomedes

Absyrtus, a son of Æetes, King of Colchs, whose sister Medea fled with Jason and murdered him Abydos, on the Hellespont, memorable for the loves of Hero and Leander.

Cacallis, a nymph, mother of Philander and Phylacis, by Apollo

Acamas, son of Theseus and Phædra, went with Diomedes to demand Helen from the Trojans, and afterwards took part in the Trojan war.

Acantha, a nymph loved by Apollo, and transformed into the acanthus Acarnas and Amphoterus, sons of Alemacon

and Callirrhoc.

Acersecomes, the unshorn, a title of Apollo
Acesta, a town of Sicily, named after King Acestes,

and built by Æneas.

Accestes, King of Drepanum, assisted Priam at Troy, and entertained Æneas on his voyage.

Acetes, an attendant of Evander.
Acheea, a name of Pallas, from her temple in Daunia being defended by dogs, which attacked everyone but Greeks.

Aches, descendants of Acheus expelled from Peloponnesus by the Heraclidæ after the Trojan war who seized the twelve lonian cities on the north of Peloponnesus.

Achemenides, son of Adramastus, abandoned by Ulysses on the coast of Sicily, and found by Æneas. Achates, friend of Aineas, renowned for his fidelity, . whence the term fidus Achates.

Acheloides, the Sirens, daughters of Achelous.

Achelous, son of Oceanus or Sol, and Terra or Tethys, god of the niver Achelous, in Epirus. Con-tending with Hercules for Dejanira, he changed himself into a serpent, and then into an ox, when Hercules broke one of his horns and defeated him.

Acheron, 2 river of Thesprotia, regarded as one of the rivers of Tartarus, and whose god was a son of Ceres, who concealed hunself in hell for fear of the Titins, where he was changed into a bitter stream, over which the souls of the dead are first conveyed.

Acherusia, a lake near Memphis, over which the bodies of the dead were ferred by Charon.

Achilles, an island of the Ister, where Achilles was buried, and over which birds never flew

Achilles, son of Peleus and Thetis; when an infant, was plunged by his mother into the Styx, and made invulnerable, except in the heel, by which she held him. Went to Troy, but, quarrelling with Agamemion about Briseis, refrained from the war till the death of Patroclus. He then slew Hector in battle at the Scrangate, and achieved other deers of valour, but ultimately was sidn, being wounded with an arrow in his vulnerable heel by Paris.

Achilides, Pyrrhus, son of Achilles.

Acids lia, one of the names of Venus, from her fountain of that name in Bootia.

Acts, a Sicilian sliepherd, son of Faunus and Simaethis, leved by Galatea, crushed to death by his rival Folyphenius with a piece of rock, but changed by the gods into a stream on Mount Ætna.

Acmonides, one of the Cyclopes.

Acata, pilots of the ship which carried off Bacchus when asleep, and were changed into sea-monsters for ridiculing the gods.

Acontous, a hunter charged into stone by Medusa's head at the nuptials of Perseus and Andromeda.

Acrisioniades, one of the names of Perseus, from

AGESTONIAGES, one of the names of Perseus, from his grandfather Acrisius.

AGESTONIAGES OF AGE

a stag, and was devoured by dogs for watching Diana at her bath.

Actius, one of Apollo's titles from Actium, where he had a temple.

Actories, a maio of Ulysses.
Adamsas, a Trojan prince, killed by Merion.
Admsas, daughter of Eurysheus, and priestess of Juno's temple at Argos. Hercules presented her with the girdle of the Queen of the Amazons.

with the girdle of the Queen of the Amazons.

Admaetus, son of Pheres and Clymene, king of
Pherae, an Thessaly, married Theone, daughter of
Thestor, and, on her death, Alceste, daughter
of Peleus. A polio served Admetus for nune years as
shepherd, and the Fates granted hum that Admetus
should never due if another person land down his life
for him, which Alceste did. Admetus was one of
the Argonauts, and was present at the hunt of the
Cabrdonian hear. Calvdonian boar.

Catydonian boar.

Adonia, son of Cinyras by Myriha and beloved by

Venus. Was killed by a wild boar while hunting,
and changed by Venus into the anemone. Proserpine restored him to life, on condition of his spending half

the year with her.

Adrastia, daughter of Jupiter, and called Nemesis the avenger.

A. a huntress, changed into an island by the gods,

to rescue her from her lover; the river Phasis. being destroyed by pestilence, Jupiter transformed ants into men, who became his subjects, and Æacus called them Myrmatoma. Æacus became judge of

hell with Minos and Rhadamanthus.

Absyrtus and Chalcope, killed Phryxus, who had fied to his court on a golden rain to gain the fleece, which has Argonauts regamed by the aid of Medea, though guarded by fire-breathing bulls and a dragon Beus, King of Athens, who consulted the oracle about hildren, and on his return rested at the count of Pittheut of Truzene, whose daughter Æthra he

married. He told her if she had a son, to send him to Athens as soon as he could lift a stone under to Athens as soon as he could fir a stone under which Ageus had conceded his sword. A son was born, Theseus, who went to Athens where Ageus was living with Medea; the latter tred to kill Theseus, but he escaped and revealed limiself by the sword to Algens. When Theseus returned from Crete, after the death of the Minotaur, he forgot to believe as created our the whole tables are hoist, as agreed on, the winte sults as a signal of success, and Ægeus, concluding he was dead, threw himself from a high rock into the sea.

Ægina, daughter of Asopus and mother of Æacus

by Jupiter, who visited her in the form of a flame. Ægiochus, a title of Jupiter, from his being brought

op by the goat Amalinta in Crete, and using her skin instead of a shield at the war with the Titans. Figure, the shield of Jupiter, who gave it to Pallas, and when placed on Medusa's need petrified all who

coked upon it.

Ægisthus, king of Argos, son of Thyestes and clopes, who was told he could avenge himself on his brother Atreus only by a son by himself and his daughter, whom he consecrated to Minerva in order to preserve her, but afterwards not recognising her, a son was been to him. Pelopea who had married accognising him from his own sword, which Pelopea had kept, Thyestes sent him to murder Atreus, after which Airsthus ascended the throne, and banashed the Atrede-Agamemnon and Menelaus-who fled to Polyphidus of Sicyon, and thence to Eneus of Ætola. They married the daughters of Tyndarus, lang of Sparta, to whom Menelaus succeeded, while Agameting went to claim Argos. But Agosthus became reconciled to the Atreide, and was made became reconcised to the Arrence, and was made guardian of Agamennon's kingdor, and his wife Clytenanestra during his absence at 1 roy Falling in love with her, she and he murdered Agamennon on his return, but both were subsequently killed by Orestes, son of Agameinnon.

Orestes, son of Agameinnon.

Egia, a nyniph, daughter of Sol and Nezera, also of the Hesperides.

Efocerus, an animal into which Pan transformed himself when flying before Typhon in the war with the glants.

Bayptus, son of Belus, and brother of Danaus, to

whose fifty daughters he gave his fifty sons in marriage. Danaus having fled to Argos in fear of his brother's fifty sons, they followed him from Lgypt into Greece, and Danaus accepting them as sons-in-law, induced his daughters to murder their husbands the first night of their marriage—which all did, ex-cepting Hypermnestra who spared Lyncous. Algyptus was afterwards killed by his nicce Polyzena. Ello, one of the Harpies; also one of Actaon's

Elurus, a deity worshipped by the Egyptians in Bubastis, where cats were embalmed and buried. Encades, descendants of Ameas.

Beneales, descendants of Arineas.

Eneas, a Trojan prince, son of Anchises and Venus, reared by a Nymph, and taught by Chiron. Fought in the Trojan War with Dioniedes and Actillies, and rescued his mother, Anchises, and the household gods from the flanes of Troy, and led his son, Ascanius, leaving Creesa, his wife, to tollow. Retiring to Ida he built twenty ships and visiting Polymnestor in the Thiacan Chersonesis, Delos, Polymnestor in the Thiacain Chersonesis, Delos, the Strophades, Crete, and Epirus, and then King Acestes at Drepanium, in Sicily, where he buried his Africa, and was entertained by Queen Dido of Carthage, who became eniamoured of him, but Africas left suddenly, by order of the gods, and Dido killed herself. He was then driven to Sicily and went thence to Cume, where the Shyl conducted him to the lower world. After a voyage of seven vears and the loss of thirteen show he reserved than nint to the lower world. After a voyage of seven years and the loss of thirteen ships he reached the Tiber, where King Latinus promised him his daughter, Lavinia, betrothed to Turnus by her mother, Amata. Turnus declared war, and in a combat with Æneas was killed. Æneas then married Lavinua, and in her honour built Lavinuum. he succeeded Latinus, and after a short region was killed in war with the Etrurans or drowned in the Numeus The Cassars traced their origin to Æneas, and his wanderings form the subject of the Ænead of

and an wandering some me daughter of Æolus.

Æollæ, an appellation of Arne, daughter of Æolus.

Æollæ, seven islands N E of Scily Lapara, Hiera.
Strongyle, Didyne, inrusa, Phoenicusa, and
1-sonymus; supposed to be the retreat of the winds,
whose ling was Æolus.

Æolus, son of Hippotas, and made king of the winds in Æolie. , resented Ulysses, on his return f Troy to Ithaca, all the adverse winds in bags; but

his companions from curiosity having opened them, they proved useless.

Æsacus, son of Priam by Alexirrhoe, or by Arisba; enamoured of Hespena, he pursued her into the woods, when she flung herself into the sea and was made a bird, A sacus being at the same time changed nito a comorant.

Æsculapius, the god of healing, on of Apollo by Coronis, or by Laussa, daughter of Phlegias; was physician to the Argonauts, but was struck by Jupiter, whereupon Apoilo kilicil the Cyclops Esculapius after death was worshipped at Epidaurus, Perganus, Athens, Smyrna, etc., goats, buils, lambs and pigs were sacrificed, and the cock and scipent were sacred to hun. A temple was raised to him at Rome.

Rome.

Essen, son of Cretheus, and brother of Pelias, succeeded his father in Iolchus, but was deposed by Pelas. He married Alcanetle, by whom ne had Jason. Jason demanded his father's kingdom of Pelias, but the Lutter persuaded Jason to go in search of the golden facer. On his return with Media, she filled the vens of Æson with the juice of certain herbs, and so restored him to youth, but he afterwards killed himself by drinking bull's blood to weight the suggestions of Pelias. Æsen, avoid the persecution of Pelias.

Esyetes, a Trojan, from whose tomb Polites, the Greek, watched ships during the Trojan War.

Ethalides, a herald, son of Mercury.

Ethon, a horse of Pallas, which shed tears at the death of his master.

bkhra, daughter of Pittheus and mother of Theseus by Ægeus. Was carried away by Castor and Pollux when they recovered Helen, and accompanied the latter to Troy.

Meanmemon, king of Mycenæ and Arros, brother of Menelaus, and son of Plathenes. On the death of Arreus, Threstes selseed Arross and removed Agamemnon and Menelaus. Agamemnon marned Clytemnestra and Menelaus Helen, daughters of Tyndarus, king of Sparta, who helped them to recover their father's kingdom; Agamemnon established himself at Mycenæ, and Menelaus succeeded Tyndarus at Sparta. When Paris carried off Helen, Agamemnon assumed command of the forces against Troy and showed great valour. After the capture of Troy, Cassandra prophesied his murder by Clytennestra, but disregarding her he returned to Aryos, where, as he was leaving the returned to Argos, where, as he was leaving the

returned to Argos, where, as he was leaving the bath, Clytennestra and Aignsthus murdered him.

Agapenor, commander of Agamemnon's fleet.

Agasthenes, father of Polyxenus.

Agenor, King of Phornicia, son of Neptune and Libya, and brother of Belus, married Telephassa, by whom he had Cadmus, Phoenix, Cilix and Europa.

Europa.

#flaia, or Pasiphas, one of the Graces.

#flaia, or Pasiphas, one of the Graces.

#flaurus. daughter of Erechticus, changed into a stone by Mercury.

#fonalia, or #fonia were Roman festivals in honour of Janus.

#forionia, festivals in honour of Bacchus.

#fortera, a yearly sacrifice of 500 goosts to Diana at Athens.

Atyleus, one of the names of Apollo.

Ahenobarbus, so named because his beard was

changed to bronze by Castor and Pollux, for refusing to believe in the victory at Lake Regillus, **1am**, the son of Telamon and Peribusa. The most lamous fighter of the Greeks next to Achilles. Sought to gam possession of the arms of Achilles at the latter's death, and on their being gained by Ulysses, he slaughtered a flock of sheep under the impression that they were the sons of Atreus; he then stabbed himself, and the blood from his wound changed into the hyacinth.

Alastor, armour bearer to King Sarpendon, of Lycia,

killed by Ulysses.

Alblon, Neptune's son by Amphitrite. Founde Britain and introduced astronomy and shipbuilding.

Algander, attendant of Sharpedon, killed by Founded

Alcanor, a Trojan, father of Pandarus and Bitias. Aleathous, son of Pelops, who, being accused of slaying his brother Chrysippus escaped to Megara, where, killing a lon that had destroyed the King's son, he succeeded to the kingdon.

Aloa was one of Acteon's dogs.

Aloa was one of Acteon's dogs.

Aloasta, daughter of Pehav and Anaxibia, conspired with her sisters to put to death Pehas that he might be restored to youth by Medea, but she refused. They then escaped to Admetus, who marned

Alcinedo, mother of Jason by Æson.

Alcinedo, mother of Jason by Æson.

Alcinedo, son of Nausithous and Peribera, King of Phaeacia. Married his niece, Arete, by whom he had several sons and a daughter, Nausican.

Alcithos, daughter of Minyas, changed into a bat, and her spindle and yarn into a vine and ivy, for ridiculing Bacchus.

ridiculing Baccius.

Altmane, daughter of Electryon of Argos, and was promised to Amphitryon on condition that he would revenge on the Telebox the death of his sons. In Amphirryon's absence Jupiter assumed his form, and became by Alcment afther of I-ercules, who was born at the same birth with Iphiclus, her on by Amphitryon.

Alectryon, a youth placed on guard by Mars when visiting Venus, to warn him of the approach of Phoebus. Transformed into a cock for falling

asseop.

Alexir hoe, a daughter of the river-god Granicus.

Altreethius, a son of Neptune, died whin attempting to cut down Pallas's olive on the Acropois.

Aleeus, a giant, son of Neptune and Terra, wedded Johimedia, who by Neptune had twins, Otus and Ephialtus, the Aloida.

Linkseus, a river of Arcadia, whose god fell in love with Arethusa, changed by Diana into a fountain in

Ortygia, a small island near Syracuse, where the Alpheus was supposed to rise again after passing under the sea.

under the sea.

Rithma, daughter of Thestius and Eurythemis,
married King Eneus by whom she had Meleager.
It was ordained that Moleager's life should last as
long as a log of wood, thrown into the fire by the
Parce at his birth, was preserved; but on his killing
his two maternal uncles, Althea fung it into the fire
and destroyed it. Meleager died and Althea killed

Amalthma, daughter of King Mellssus, of Crete.
She fed Jupiter with goat's milk.
Amaraous, an officer of Cluyras, changed into

marjoram. Amata, wife of King Latinus, espoused the claims of Turnus, to whom she had betrothed Lavinia before Æneas's arrival. On Æneas succeeding, she

destroyed herself.

Ambartalia, festivals in honour of Ceres.
Ambroata, the food of the gods, which gave immortality to its consumers. Venus healed Æneas's wounds with it.

Amimone, turned into a fountain near Lake Lerna.

Daughter of Danaus.

Animon, a name assumed by Jupiter in Libya, where he appeared as a ram to Hercules and revealed a fountain, mne days' journey from Alexandria. Here a temple was erected which had a famous oracle.

oracle.

Ampelus, a favourite nymph and satyr of Facchus.

Amphiaraus, son of Oecleus, or of Apollo, by Hypermnestra: figured in the hunt of the Calydonian boar, and in the Argonautic expedition. To escape going with Adrastus against Thebes, he hid himself, but being discovered by Eriphyle, was forced to proceed to Thebes, where the earth swallowed him and his chariet. and his chariot.

Amphidamus, son of Busiris, killed by Hercules.
Amphimedon, a sustor of Penelope, killed by
Telemachus.

Amphinomus and Anapius, two brothers who saved their parents on their shoulders when Catana was burning and for their bravery were placed by

Pluto in Leuce after death.

Amphion, the twin brother of Zethus, born to Jupiter by Antiope on Mount Cithaeron, whither she had fied to avoid the wrath of Durce. A shepherd nation to determine the infants, and Amphion became a great musician. Amphion and Zethus besieged Lycus in Thebes, and put him to death, and tied his wife to a wild buil, which dragged her over precipioes till she died.

she died.

Amphitratus, charioteer to Castor and Pollux.

Amphitrite, the daughter of Oceanus and Tethys,
and mother of Triton, by Neptune.

Amphitryon, King of Thebes, who, as avenger of
the deaths of the sons of Electryon, was offered the
latter's crown and daughter Alcmena. Jupiter
appeared in the form of Amphitryon, and Alcmena
beau Harriles bore Hercules

Amphitryoniades, a name given to Hercules as the presumed son of Amphitryon.

the presumed son of Amphityon.

Amphrysus, a river of Thessaly on whose banks
Apollo fed Admetus's flocks.

Amsanctus, a lake of sulphur in the Hirpini
country, whence Alecto descended into hell.

Amyous, son of Neptune, became King of Melia,
and had great skill with the cestus. Was killed by

Poliux.

Amyntor, king of Argos, blinded his son Phoenix for insulting Clytta, his concubine.

Amyone, daughter of Danaus and Europa.

Amyone, daughter of Danaus and Europa.
Married to Enceladus, and killed him on the
marriage night. She was the only one of the fifty
Danaldes absolved from the duty of filling the leaky
vessel in hell, because of having supplied Argos
with water in a drought. Neptune falling in love
with her carried her off, and she bord him Nauplus.
Anattis, an Armenian goddess whose festivals were
marked by excessive licence.
Anaxibis. sister of Assumember with of Nauplus.

Anaxibia, sister of Agamemon, wife of Nestor.

Anceus, an Argonaut, son of Neptune and
Astypalæa, acted as pilot of the Argo. Was king of

Ionis, and married Samis, daughter of the Mæander, by whom he had four sons, Perilas, Enudus, Samus, Alithersus, and a daughter Parthenope. While behaving cruelly to a slave, the latter turned scornfully and told his master he would never taste the wine. Ancasus angered pressed the grapes into his cup, when the servant exclaimed "There's many a slip 'twirt the cup and the lip." The next moment a wild boar rushed into the vineyard and Ancasus was killed in attempting to drive the beast way.

Anchises, the son of Capys by Themis, and so beautiful that Venus paud court to him on Mount Ida, and bore him Æneas.

and bore him Æneas

Anchurus, the son of Midas, and when the oracle declared that a certain gulf in the earth would never cease to swallow up what was above until what Midas held most dear was thrown into it, he leapt in and was never seen again. Midas erected an altar of stones on the spot, which was changed to gold after Midas became possessed of his fatal gift. Androcius, a Koman slave who was thrown into the

arena to the lions, but was saved by being recognised by one of the animals, Androcles having one extracted a thorn from its foot in an African cave. Androgyna, a mythical race of hermaphrodites, who lived in the region of Africa beyond the Nasa-

Andromache, daugiter of King Ection of Thebes, and wife of Hector. The scene in Homer's litad, describing her taking leave of Hector on his going forth is one of the best known passages in the poem. After Hector's death and the fall of Troy, Andromache became the prize of Pyrthus. Still later she married Triam's son Helenus.

Andromeda, daughter of King Cepheus, by Cassiope, having been promised as a bribe to Phineus, her uncle, became the victim of Neptune's ranneus, ner uncie, became the victum or Neptunes anger, by reason of the boat of her mother that she was more beautiful than Juno. The sea-god visited the country with an inundation and sent a huge seamonster to ravage the land. The people were in desperate straits, and, to appease Neptune, Andromeda, at the command of the oracle of Ammon, was chained to a rock and given up to the mouster. Persous came to the rescue with Medusa's head, turned the dragon to stone, liberated and married

Andrus, an island of the Cyclades where there was a temple to Bacchus with a fountain whose swaters,

during the ides of January, tasted like wine.

Angultia, a wood near Lake Fucinus, inhabited by descendants of Cure, to whom serpents were harmless.

Anicetus, son of Hercules and Hebe.

Anigraces, son or retrievant rece.

Anigraces, nympis of the Anigrace.

Anigraces are of Theosaly wherein the Centaurs

washed the wounds inflicted on them by Hercules.

Anius, son of Apollo, was king of Delos, and father of

Gine, Sperma and Elais, to whom Racchus gave the power of changing whatever they pleased into wine, corn and oil. He afterwards transformed them into

doves to prevent Againstance arrying them off to Troy to supply the Trojan forces with provisions. Antenue, a Lilyan giant, son of Terra and Neptune, who had an encounter with Hercules, by whom he was finally waquished, Hercules holding hun in the

air and squeezing the life out of him.

Antenor, a Trojan who urged the Greeks to build the wooden horse which was forced into Troy by a breach made in the walls. Antenor went to Italy after the fall of Troy, where he built Padua.

Anteros, son of Mars and Venus, and named the god of mutual love.

Anthesphoria, feasts held in Sicily in honour of

Anthesteria, Greek festivals held in honour of Bacchus in the month of February, lasting three days.

Anthius, epither of Bacchus at Athens and Patræ. Anthores, companion of Hercues, killed in the Rutulian War.

ntilibanus, a mountain of Syria.

Antilochus, son of Nestor and Eurydice, killed at Troy by Memnon.
Antimachus, a Trojan who conspired with Paris

to oppose Helen, when Menelaus and Ulysses came as ambassadors.

as anhassadors.

Antinous, son of Eupelthes of Ithaca, suitor for the hand of Penelope, and conspired to destroy Telemachus. He was killed by Ulysses.

Antiope, daughter of King Nycteus, of Thebes, was woosd by Jupiter, and to escape her father's anger fied to Mount Cithæron, where she bore the twins Amphilon and Zethus. After many other lovings, marryings, and wanderings, she finally became the wife of Phocus, son of Ornytion.

Antiphates, King of the Lestrygones, and said to have eaten one of Ulysses' mexengers, and afterwards sunk with stones the whole of the ships except the one

sunk with stones the whole of the ships except the one

Ulysses was on.

Antiphus, son of Priam, killed by Agamemnon,
Anubis, an Egyptian god, in the form of a man with
a cog's head. Doguised in sheep's skin he accompanied Osiris against India.

Aon, son of Neptune, became King of Breetia, after whom the Breetians were called A'ones, and the

country Aonia.

Aornos, a fortress on the Ganges, besieged by Hercules, but afterwards taken by Alexander. Aphetm. a city of Magnesia, where the Argo was launched.

Aphrodista, an island in the Persian Gulf, where Venus was worshipped.
Aphrodise, the Greek name of Venus.

Apia, an Egyptian god in the form of an ox which had several distinctive marks; a black body with a square white spot on the forehead; the figure of an square white spot on the forenead; the figure of an eagle on its back; a white spot like a crescent on the right side; the hairs of the tail double; and a knot under the tongue like a beetle. The Apis festivals lasted seven days, the ox being led in solemn procession. If he lived twenty-five years he was drowned in the Nile, embalued and buried by Memphs. Then came the period of mourning, continuing until another ox was found with the 1ght marks. There were two temples to Apis.

Apollo, the son of Jupiter and Latona, and born on the Isle of Delos, which Neptune raised from the bettom of the sea as a refuge for Latona, who was persecuted by Juno. Apollo became the god of the arts, of medicine, music, puetry and eloquence; his oracle at Delphi, was the most famous in the world. oracte at Deiphi was the most famous in the work when Jupiter killed Apollo's son Æsculappus by his cyclopea, rhunders, Apollo killed Cyclops, who had forged the boit, for which Jupiter banished Apollo irom heaven. Then Apollo went to Thessaly, and served nine years as a shepherd. He aided Neptune to build the walls of Troy, and on King Laomedon refusing him his promised reward, he destroyed the whalk further with a resilience. Among his other refusing him his pionused reward, he destroyed the inhabitants with a pestilence. Among his other names were Pythius, Phiebus, Cynthius, Lycius, Clarius, Ismenius, Vullurius, Smintheus, etc. His oracles were at Delpla, Delos, Claros, Tenedes, Cyrrha, and Patara Augustus built a temple of Apollo on Mount Palatine, although he was not Apollo in Atomic pod.

Apollonia, a festival heid at Algi...lea, in honour of Apollo and Diana.

Applades, the name of a temple on the Applan road dedicated to Vesta, Venus, Minerva, Concord, and

Arachne, daughter of Idmon, dver, and so expert with her needle that she challenged Minerva. Suffering defeat, she committed suicide, and was

Suffering defeat, she committed suicide, and was turned into a spider by the goddless Minerva.

Frans, son of Jupiter and Callisto, who ruled over Pelasgia, which was called Arcada after him **Arcongues**, son of Jupiter and grandfather of Ulysses, Archaegatea, one of the tules of Apollo.

Arcitanans, a title given to Apollo, because of his carrying the bow with which he killed the python.

Arctos, a mountain near Propontis, where giants and monsters dwelt. monsters dwelt.

Arestanus, Æsculapius. the peasant whose goat suckled

Areta, daughter of Rhexenor and mother of Nausicaa.

Arethusa, daughter of Oceanus, who was changed into a fountain by Diana to enable her to avoid Alpheus Aratus, son of Nestor and Anaxibia.

Arga, a hurress changed into a stag by Apollo.
Argannum, a promontory of Ioma.
Argantoratum, a town in Gallia Belgica.
Arga, son of Celus and Terra; had only one eye, in his forehead.

Argaus, son of King Perdiccas of Macedonia, succeeded on the deposition of Amyntas.

Argi. (See Argos.)

Argia, daughter of Adrastus, married Polynices, and
was put to death by Creon for burying her husband

against Creon's orders.

Artiles, jounce Uninceson.

Artiletum, a trading quarter at Rome.

Artilius revealed to the Ephon of Sparta the correspondence of Pausanas with the Persian king.

Artilius, a mountain of Egypt.

Artilius, a town built by a colony of Andrians in Macedonia, near the Strymon.

Artinusae, three islets where Conon defeated the Spartan fleet, 40° B.C.

Artinundusae, a name given to Mercury after killing.

Sparan neet, 40° B.C.

Argiphomies, a name given to Mercury after killing
the hundred-eyed Argus.

Argo, the ship in which Jason and his fifty-four
Argonauts sailed to Colchis to recover the golden
fleece, and on its prow was a beam which pronounced

Argonauta, the companions of Jason on the Argo.

The expedition was to recover the golden fleece which was guarded by a sleepless dragon at Colchis. Æetes promised to deliver the fleece if Jason would excrets promised to deliver the fleece if Jason would perforn certain seemingly impossible teats, but by the aid of Medea he achieved them, and carried off the fleece. Among the Argonauta were Hercules, Theseus, Æsculapius, Nestor and Orpheus Cyclopes. Agamemon was King of Arges during the Trojan War.

two slept at a time. Juno set him to watch Io, but
Mercury slew him; afterwards his eyes were put on

Mercury siew him; and wards no eyes were put on the tail of Juno's sacred peacock.

Ariadne, the daughter of Minos II. of Crete, Falling in love with Theseus she gave him a clue to extricate himself from the labyrinth where he was in danger of being destroyed by the Minotaur.

Theseus clear the monster and married Ariadue, but tanger or being destroyed by the Minotaur.
Theseus slew the monster and married Aradine, but deserted her later. Bacclus gave her a crown of seven stars, which was tuned into a constellation.

Arida, niece of Ægeus, married Hippolytus after he was raised from the dead by Æsculapius.

Arimaspias, a niec of Seythia that ran with golden sands. The Arimaspi of the district had but one sands.

sands. The Arimaspi of the district had but one eye, in the middle of the forehead.

eye, in the middle of the foreflead.

#ristous, son of Apollo and Cyrene, born in Libya, reared by the Seasons, and fed on nectar and authorsia.

Actaon. Later he pursued Orpheu's wife Eurydice, who died from being stung by a serpent. Afterwards atomed for it by the sacrifice serpent. Afterwards atoned for it by the sacrifice of four bulls and four heifers, and regained prosperity. Was deified at his death.

Aristhenes, the shepherd who rescued Æscula-pus when deserted by his mother. Aristocrates, King of Aradia, killed by his subjects for offering violence to a priestess of Dana.

Arne, daughter of Æolus, wooed by Neptune in the form of a bull.

form of a bull.

Artemia, the Greek name of Diana.

Artemia, a Roman made drunk by Bacchus for ridiculng his rites, and killed by his Jaughter Medullina for insulting her.

Assalaphus, son of Acheron, being appointed by Pluto to watch Proserpine in the Elysian fields, testified that the goddess had eaten pomegranates Jupiter ordered her to be six months of each year

pupier ordered ner to be six months of each year with Pluto, and the other with her mother. For this Proserpine changed Ascalaphus into amowl.

Ascoliasmus, an Athenian winter festival of husbandmen in honour of Bacchus. A goat was alain, and they filled its skin with oil and wine, and whoever could leap upon it and stand steady, gained it as his prize.

Astarta, a Syrian goddess, corresponding to the Greek Venus.

Astarla was the daughter of Cœus, the Titan, married Crius's son Perses, and bore the celebrated Hecate. Zeus paid court to her in the form of an eagle.

eague.

istream, daughter of Astræus, or, according to others, of Titan, was the goddess of Justice, and hved during the Golden Age. Disgusted with the wickedness of mortals, she returned to heaven, and was made the constellation Virgo, and is represented as holding a pair of scales in one hand, and a sword is the critical transport. in the other

Astraus, husband of Aurora, and one of the Titans.
Astyanax, son of Hector and Andromache. His
mother saved him from the flames of Troy but he was

afterwards killed.

Astyoche, daughter of Actor, was mother, by Mars, of Ascalaphus and Ialmenus.

Atabulus, the Apulian name for the south-east

wind.

Atalants, the daughter of King Schoeneus, was born in Arcadia and was very beautiful, but vowed never to marry. Sie had hosts of admirers and in order to free herself from them she proposed to runa race with them, she carrying a dart, while they carried nothing. The loveis started first and the conditions were that she was to kill all whom she overtook, but if one of them reached the goal before her she was to marry him. At last Hippomenes favoured by Venus had three golden apples from the graden of the Hessendes oven him and as he ren garden of the He-perides given him, and as he ran he threw them down one after another. Atalanta fascinated by them stopped to pick them up and thus Hippomenes won the race. Atalanta bore a

son, Parthenopeus, to Happomenes.

Ate. the goddess of evil, and daughter of Zeus, hanished for sedition from heaven to earth.

named for section from leaven to earth.

Athannas, king of Beechan Orchomenos, and son of Adous. He married Themsto, who bore him Phryxus and Helle. Later he divorced her and married Ino, by whom he had Leurchus and Melicerta. Ino was jealous of Thermsto's children and wanted to kill them, and persuaded an oracle to the control of the section of the control of the and wanted to fit them, and persuadra all oracle wanted to predict that a postleince then raging could only by their sacrifice be arrested. On being led to the altar they field to Colons through the air on a golden ram, and Juno despatched the farry Tisphone to torture Athamas to madness in this condition he magned hio to be a lioness, and her sons whelps, whereon I no threw herself into the sea, and was

changed into a sea-deity.

Athena, the Greek goddess corresponding to the Roman Muierva

Atlantiades, a name given to the descendants of Atlantiades, a name given to the descendants of Atlas, including Mercury and Hermapprodutes.

Atlantides, the seven daughters of Atlas—Maia, Electra, Taygeta, Asterope, Merope, Alcyone, and Celæno, called Hespendes, after their mother Hespers, and at death changed into Plelades.

Atlas, the son of Japens and the Oceanian Clymene, and married Hespers, who bore him the seven Atlantides.

Atlas, the Coverge Countries of the Countries of the Coverge Countries of the Coverge Countries of the Count

tides. After vanquishing the Gorgons, Perseus sought refuge with Atlas who refused; whereon Perseus produced Medusa's head, and changed him into the Atlas mountain, which is so lofty as to have given rise to the notion that Atlas carried the world

on his shoulders. There are other versions.

Atraus, son of Pelops by Hippodama, was king of Mycene. Suspected of the murder of Chrysippus, he fied to Argos and succeeded Eurystheus as king, marrying his daughter, who bore him Plisthenes, Agamemion, and Menelaus.

Atrides, any descendant of Atreus, but especially

Agamemnon or Menelaus,

Atropatia, the N.W. part of Media.

Atropos who cut the thread of life, was one of the

Arropos who cut the thread of life, was one or the Parcæ daughters of Nox and Erebus.

Attes, son of Calaus, made the worship of Cybele popular in Lydia. Juno had him killed by a wild bear.

Augus, a town of Laconia.

Augus, son of Eleus, an Argonaut, and afterwards king of Elis. He had enormous stables which had never been cleaned, and Hercules was set to clean

them as one of his great tasks for which he was to, receive a tenth of the herds of August. Hercules diverted the waters of the Alpheus into the stables,

diverted the waters of the Alpheus into the stables, but Augias regarding this as a trick refused the reward. Hercules then conquered Elis, killed Augias, and gave the crown to his son Phylrus. Aulias, the harbour of Eubea, where the Greek expedition against Troy was detained by tempests. Agamennon was about to offer up his daughter, lphigenia, to Diana, but the goddess substituted a

ram.

Aurora, daughter of Hyperion and Thia, was married to Astreus by whom she had the winds and stars. She went with Orion to Delos where he was killed by Diana's arrows. Aurora is depicted as a veiled figure in a rose-coloured channot drawn by white horses opening the gates of Day.

Aussap, a south-west wind that brought rain and fog: in winter, and a dry wind in summer.

Autolyeus, son of Mercury, was an Argonaut. He was a robber of flucks whose marks he changed, but Sisphus, son of Molus, got the better of him by putting his marks under the feet of his oxen.

Autonyeudon, son of Dioreus, was charoteer to Butoner to Oloreus, was charoteer to

butting its interaction of Dioreus, was Charoteer to Achilles, an 'afterwards to Pyritus. Avarius, a take between Cume and Puteoli, the waters of which were so fatal that no birds could live near it. It was one of the entrances to Tartarus.

Bacchanalia were Roman festivals in honour of

Bacchus and were marked by wild revelry.

Bacchus who danced and threw themselves about in barbaric abandonment

and threw themselves about in barbanc abandonment at the Bacchanalian orgies

Bacchus, the god of wine, son of Jupiter and Semele, the daughter of Cadmus. Juno was jealous of Semele and compassed her death before Bacchus was born, but the child was saved by Jupiter's protection, and nursed by Ino. While sojourning with the nymplis of Nysa he made wine from the grape, and atterwards made expeditions to many lands to teach the use of the vine, the tilling of the earth, and the art of collecting honey, and was raised earth, and the art of collecting honey, and was raised to the rank of a divinity. He is generally represented crowned with vine and ivy-leaves. Bacchus married Ariadne after she was deserted by Theseus at

Baucis, an old Phrygian woman who lived with her husband, Philemon, in a hut and was visited by Jupiter and Mercury in discusse and as a reward for the hespitality extended to them Jupiter train formed the cortage into a splendid temple. The couple lived to a ripe old age and at death were changed into trees before the reimple's doors.

changed into trees before the temple's doors. Bellacophon, son of Glaucus, King of Ephyra, and named Bellcrophon after slaying Bellerus. After many other adventures, he set out to subdue the Chinaera, and, aided by Mimerva, achieved his task, afterwards marrying Cassandra. Attempting to fly to heaven on the back of Pegasus, Jupiter sent a gadify to sting the horse, which threw Bellerophon to earth, and he wandered about blind for the rest of his life. his life.

nis ine.

Beliona, the goddess of war, daughter of Phorcys and Ceto, and companion or sister of Mars. The temple to Beliona on the Canipus Marcus was built 200 B.C. by Appius Claudius Cæcus. At Comana she had about 2,000 priests, Bellonarii, who inflicted wounds on themselves when offering sacritices.

Bergion and Albion, two grants, sons of Neptune, were killed with stones from heaven when opposing Hercules crossing the Khone.

Hercules crossing the remain.

Bergistania, a people on the east of 1h, rus.

Bermitus, a mountain of Macedonia.

Beroe, the nurse of Senicle, whose shape Juno assumed in approaching S, niele.

Biston, son of Mars and Calurhoe and founder of Bistonia in Thrace.

Bomonics, youths who were whipped at the altar of Diana Orthia during her festivals, the one who cried out the least being awarded a prize.

Bona Daa, the Roman goddess of chastity, who was sister, wife or daughter of Faunus. The Vestals celebrated her festival on 1st May, when no male

celebrated her festival on 1st May, when no make was permitted to be present.

Boreas, the personification of the north-east wind. Boreas is said to have been the son of Astraus and Aurora, and carried away Orithyrla to Mount Haenus an Thrace. He was worshipped as a deity, and is said to have possosed twelve mares of such astraus with the world cross these mithous twisten. fleetness that they could cross the sea without wetting

Branchus, son of Smicrus of Miletus, and loved by Apollo, who gave him power of prophecy, and he delivered oracles at Didyme.

Briaraus, a colossal glant with a hundred hands and fifty heads, son of Celus and Terra. He climbed Olympus to join the conspiracy for the overthrow of Jupiter, for which he was cast beneath Mount

Brisels, a beautiful woman who was part of the spoils appropriated by Achiles on the conquest of Lymessus. Later Agamerunon claumed her, causing Achilles to withdraw from the Trojan War. After the death of Patroclus she was given back to Achilles

Busiris, king of Egypt and son of Neptune and Libya. When Hercules was in Egypt Busiris had him bound hand and foot and carried to the altar; but Hercules freed himself and slew both Busiris and his courtiers.

Caballinus Fons, the Hippocrene fountain on Mount Helicon dedicated to the Muses, the water being made to gush from the ground by a blow from the hoof of Pegasus

the hoof of Pegaus.

Caburus, a chief of the Helvii

Caous, the giant, was a son of Vulcan and Medusa, and lived on Mount Aventine. He stole some of the herds of Hercules and dragged them by the tails to his cave. Hercules heard them low, however, when passing, and attacked and strangled Caous, afterwards are the son on the son a pairs to further Servetine.

crecting on the spot an altar to Jupiter Servator.

Cadmus, son of Agenor, King of Phænicia, who, while searching for his sister who had been carried white scarcing for his sister who had been carried off by lupiter, came to Thrace, and at the command of the Delphic oracle, founded a city where a certain heifer was seen to sink in the grass. This city was Thebes. Cadmus married Hermitone, daughter of Venus. Juno persecuted his children, who were changed into serious: changed into serpents.

Caduceus, the magic wand of Merrury with which he conducted the souls of the dead across the Styx and could raise the dead to life.

comess, a maiden changed into a man by Neptune, and took part in the Argive expedition and Calydonian hunt. Was later transformed into a bird, but in Elysium once more became a maiden.

in Elysum once more became a madem.

Calohas, the Greek soothsayer and high priest.

Was chosen to go with the Greeks against Troy, but
declared that the fleet could not sail until Iphigema
was sacnificed; that the plague could not be stopped
till Chrysels was restored to her father; and that
Troy could not be taken without Achilles' aid, nor
without a ten years' siege.

Calliope, the Muse of poetry, and daughter of
Jupiter and Mnemosyne. She was mother to Orpheus
by Apollo.

Jupiter and Mnemosyne. She was mother to Orpheus by Apollo.

Callirhoe, daughter of Scamander, married Tros, and became the mother of Ganymede and Assaracus. Coresus feel in love with her, but she scorned him. This angered Bacchus, whose priest Coresus was and the god sent a pestlence, whereupon the oracle demanded that Callirhoe should be sacrificed. Coresus, compelled to lead the nymph to the altar, stabbed himself. Callirhoe fied to Attica, and on the brink of a fountain there, kildel herself.

Callisto, an attendant of Diana, and a daughter of King Lycaon, of Arcadia. She bore a son to Jupiter, Arcas, and Juno changed her into a bear.

Calyace, a city of Ætolia, devastated by a boar sent by Diana in revenge for the neglect of her divinity.

This gave rise to the famous Itunt of the Calydonian Boar, in which many noted princes took part. Meleager succeeded in slaying the animal, and presented its head to Atlanta.

Calypso, the goddess of silence, was queen or Ogygia. She offered Ulysses hospitality on his being shipwrecked, then entreated him to make her his wife, and on his refusal detained him seven years.

Capaneus, one of the Seven against Thebes, son of Hipponous and Astinome, and liusband of Evadne. Having vowed to take Thebes in spite of Jupiter, the god killed him with a stroke of lightning, and on

hearing the news Evadue committed suicide.

Carra, a Roman goddess, protectress of the human body and the exterior of houses. Offerings of vegetables were made to her.

Cassandra, daughter of Priam and Hecuba, and beloved by Apollo, who granted her the gilt of prophecy, but afterwards withdrew it. After the fall of Troy she became the captive of Agamemon who took her to Mycenz, where Clytennestra put her to death.

her to death.

Casslopea, mother of Andromeda. As she boasted of being fairer than the Nercides, Neptune sent a sea monster to ravage Æthiopia, and to appease him Andromeda was exposed on a rock, but delivered by Perseus; and Cassiopea was made a southern constellation of thirteen stars.

Castalia, a Parnassian fount whose water; inspired those who drank of them with the poetic spirit.

Castor and Pollux, twin sons of Jupiter by Leda, They were members of the Aronaut expedition.

iastor and Pollux, twin sons of Juniter by Leda, They were members of the Argonaut expedition and showed great valour. Pollux afterwards became the god of boxing and wrestling, and Cavtor and Pollux cleared the Hellespont, and were proclaimed the patrons of navigation. They contended with Theseus for Helena, but Castor was billed but ledge and Bollux averaged to the contended with the patrons of the patrons killed by Idas, and Pollux appealed to Jupiter to restore Castor, and the god granted them conjoint immortality, so that when one was on earth, the other was in the world below.

other was in the world below.

Celsno, daughter of Atlas, and beloved by Neptune.

Centaurs, a race half horses and half men, who
inhabited the Mount Pelloin region. Led by Chiron,
one of their number, they engaged in many savage
contests, but in the end the greater part of then
were killed by Hercules, and the rest driven to

Mount Pindus.

Carbarus, the many-headed dog which kept watch over the gates of Hades. It was one of the "labours" of Hercules to bring Cerberus to earth,

and his hardest task.

Garea, in the Roman mythology, called Demeter by the Greeks, was the goddess of the carth's produce, especially of corn. The festivals to Ceres, Ceralia, were among the most elaborate displays that the Romans gave, consisting of a grand show of games in the Circus Maxinus.

Chaos, the unfathomable void from which the world

and its first occupants, gods, men, and all things of the earth, were gradually shaped. Charon, son of Erebus, whose duty it was to ferry the souls of the dead over the waters of the Styx and Acheron, to the inferral regions, receiving an obolus for each ferrying; hence the old Roman custom of putting an obolus into the mouth of a corpse before interment.

Charybdis. (See Scylla and Charybdis.)
Chiron, the most famous of the Centaurs, killed by
an arrow from the bow of Hercules

an arrow from the bow of Hercules.

Ciroe, daughter of the Sun (Helois), and Perseis, gamed fame as a sorceress, and after putting to death the Prince of Colchis, her husband, was banished to the Island of Æea. It was to this island that Ulysses and his companions were also exited, and, drinking of Circe's magic cup they were turned into swine, Ulysses himself being saved by partaking of a herb that made the magic potton powerless. Circe was then forced to give his companions back their former shape.

Clustia, a water-nyumph with whom Apollo fell in love.

Clytie, a water-nymph with whom Apollo fell in love, but because of her revengeful conduct towards Leucothœ who had deserted her, Apollo transformed

her into a sunflower, so that it might always be turned towards him in his daily journey across the heavens.

heavens.

Comus, the god of revelry and feasting. As treated by Milton in his famous poem he is the son at Bacchus and Circe. As represented in ancient times, he is a winged youth overcome by dirinking.

Cornucopia, the horn of plenty, and the symbol of abundance, was supposed to have its origin as the gift of Jupiter to Amalthea, in return for her having fed him while young with goat's milk. The horn was to yield her in plenty everything that she desired.

desired.

desired.

Gupid, god of love, by the Greeks called Eros. He
was the son of Venus, by Jupiter (or, as some
represent, Mercury), and was generally pictured as
a fair youth with wings, carrying bow and arrows,
with which he fired his love shots. Cupid fell in love
with Psyche, but concealed his identity from her
until an accident discovered him to her. They were
ultimately united in an university wifesteres. ultimately united in an immortal existence.

Cureaces, Cretan prests of Jupiter, to whom Rhes gave the charge of the infant Jupiter (Zeus), and they concealed him from Kronos, his father, by crashing their shields and cymbals together when-ever he approached, so that the cries of the child

could not be heard.

count not be neard.

Gyolopes, a race of Sicilian shepherds of cigantic stature, with only one eye, in the middle of the forehead, who lived on human beings. Polynhemus, the son of Neptune, was their chief. They lived in the region of Mount Etna, and assisted V. Ican at his forges. The legend has other versions.

Dactyls were ten priests of Cybele who inhabited Mount Ida, where they are said to have discovered iron, and introduced the art of manipulating the metal by smelting.

Danes, who was visited by Jupiter (Zeus) in a shower of gold, was the mother of Perseus, Jupiter being the father. Before the birth of Perseus, an oracle predicted that the son that would be born would kill his grandfather, Acrisius, king of Argos, and father of Danes. To avoid that calamity the mother was miniured in a brazen tower, and after the birth of Perseus, site and the cluld were put in a chest and Perseus, she and the child were put in a chest and thrown into the sea, but drifted to the shore of Scriphus and were saved. The oracle's prediction was afterwards fulfilled, Acrisius being accidentally slam by Perseus.

slam by Perseus.

Danaus, son of Belus, king of Tyre, and twin brother of Ægyptus. Ægyptus had fifty sons, Danaus had fifty daughters, and Danaus, to escape his brother and his sons, fled with his daughters to Argos, and demanded theu function. He will be sons of Ægyptus betook themselves to Argos, and demanded theu uncles daughters for wives. Their amis were frustrated, however, by each wife killing her husband on the wedding night, with a dagger provided by their father. One only escaped, Lynceus, who killed Danaus. Another version says that the uncle and nephew were reconciled, and reigned together for many years.

regned together for many years.

Dardanus, son of Jupiter (Zeus) and Flectra, was the founder of Troy and ancestor of the Troyans. It is his name that is commemorated in the Dardanelles.

Delos, the smallest of the islands of the Cyclades, supposed to have been raised from the bottom of the sea by Neptune, and became the birthplace of sea by Apollo.

Delphi, in ancient Greece, was the seat of the temple and oracles of Apollo, and the wealthnest of all contemporary shrines. It possessed over 3,000 statues, and was plundered by Nero and other capperors for the enrichment of Rome.

Deucalion, a son of Prometheus, and his wife Pyrrha, were the only persons saved when Jupiter (Zeus)
destroyed Hellas by a deluge. To effect the repeopling of the earth, they were ordered to throw
behind them the bones of their mother, and picking up some stones from "mother earth," they flung them from them, and the stones cast by Deucahon were transformed into men, and l'yrrha's stones into

Diana (called Artemis by the Greeks), the goddess of hunting, and twin sister of Apollo. She was also

the goddess of light.

Diomedes, king of Argos, and one of the champions

Diomedes, king of Argos, and one of the champions of the Grecian army in the Trojan War. He overcame Ajax in single cambat, and is one of the most prominent fighting figures of the Ihad.

Dragon of the Hesperides, which kept guardover the golden apples of the famous garden, had a hundred heads and as many different voices. It was one of the "labours" of Hercules to procure some of the golden apples, and by slaying the dragon he accommished the feat. accomplished the feat.

Dryades, the nymphs of the trees, were supposed to ve their birth with and die with the trees, over

which they were the divinities.

Echo, a sportful nymph, who diverted the attention of Juno (Hera) while Jupiter (Zeus) made love to other nymphs. When Juno discovered the decep-tion, she transformed the deceiver into an Echo, depriving her of the power of speaking except when spoken to. Subsequently Echo pined away for the love of Narcissus, until only her answering voice

remained to perpetuate her name. Femaneat to preparate ner name.

Fleatra, daughter of Agamemnon, seeing the danger
that her brother Orestes was in after the nurder of
her father by her mother Clytemnestra, had him sent
away to Phocis, where he was protected by King
Strophius. In revenge for this, Clytennestra compelled Electra to marry a peacent, but the peasant never sought to be more than husband in name, so that when later Orestes returned, Clytenmestra was put to death, and Electra became the wife of her brother's friend, Pylades Elysium, the abode of "the shades of the blessed,"

situated in some undefined part of the lower world

Erato, the muse of lync and amatory poetry. She is usually depicted crowned with roses and myrtle, and holding in her hand a lyre.

and holding in her hand a tyre.

Erabus, the son of Chaos, and one of the deities of Hades. The name is also used as a synonym for darkness, referring especially to the region through which departed souls pass to the Inferno.

Etacolea, a son of Cédpius, king of Thebes After his father's death, he and his brother Polynices agreed to reign in alternate years, Etocoles, as the edder, taking the first turn. At the end of his year he relived to relinquish the crown ta Polynices, and he rejused to relinquish the crown to Polynices, and Adrastus, king of Argos, was appealed to. Adrastus, whose daughter had become the wife of Polymees, whose daughter has recome the wife of a bythose, sent an army and severe of his bravest generals (the Seven against Thebes) to his son-in-law's aid, and a severe conflict ensued. In the end the two brothers agreed to settle their differences by single combat, and both were slam.

Euphrosyne, one of the three graces, Aglaia and Thalia being the other two

Europa, daughter of Phenix and beloved of Jupiter (Zens), who assumed the shape of a white bull and carned her off to Crete, where she became the mother of Mmos, Sarpedon, and Rhadamauthus, Later she married Asterius, king of Crete, who adopted Europa's children by Jupiter.

Eurydice. (See Orpheus.) Eurystheus. (See Horcules.)

Euterpe, the muse who presided over music, and was regarded as the inventrees of the flute, the instrument which she is usually represented as holding in her hands.

Flores, the goldess of flowers (the Chloris of the Greeks). The feasts in her honour were of the most lavish description lasting from April 28th to May 1st

Furies (the Eumenides of the Greeks) represented as three in number, Tisiphone, Megara, and Alecto. whose work was to carry out the vengeance of the gods upon countries, people and individuals. They are depicted as winged femiles of threatening aspect, with serpents hanging from their hair and blood dropping from their eyes

Galatea. (See Acis.)

Ganymede, Jupiter's cup-bearer, a mortal youth of such grace and beauty that the god had him carried off to Olympus on the back of an eagle.

Genius Loci, the special divinity allotted to a tarticular place or building.
Glaucus, the Bocotian fisherman, who was made a sea deary by Oceanus, and carned off Ariadue from

Naxos. Apollo granted him the gift of prophecy.

Golden Fleece (The) forms one of the most entrancing of the legends of mythology. The fleece was that of the rem Chrysomallus and was deposited on a tree at Colchis, being guarded by a terrible dragon Jason undertook the task o' recovering the flecce (see Argonautes), the Argo was fitted out and among the heroes taking part in the consecution were heroidal the expedition were Hercules . many exciting adventures the fleece was recovered

many exciting adventures the fleece was recovered and Jason was duly rewarded.

Graces (Greek Charites) were three in number, Euphrosyne, Aglan, and Thaha, and represented the perfection of grace and heauty of body and mind. They were daughters of Jupiter (Zeus) and are usually shown as attendants on Venus (Aphrodite).

Hades or Pluto, was the god of Inferno, son of Saturn (Chronos), brother of Juniter (Zeus) and Neptune (Posedon), and had for wife Proservine (Persephone). In classical departions the god is represented seated on a throne, Cerberus lying at his feet Hades is also the name given to the internal regions, rendered sheet in the Hebrew.

Habe, cupbearer to jupiter (Zeus) and the gods, and daughter of Jupiter and Juno (Hera) She is repre-sented as the goddess of youth, and by the Romans

was named Juventas.

Hecate, often represented with three heads, was supposed to preside over magic and enchantments, and her dominion extended over hell, heaven, earth. and sea. In heaven the was Luna, on earth Dona and in Hades Proserpine or Hecate. She was the daughter of Jupiter and Latona. It was the custom to proputate her by sacrifices of dogs, lambs, and honey.

Hector, son of King Priam and Hecuba, and husband of Andromache, was captum of the Trojum torces and the most valuant of them all. After repeated victories over Greeian leaders he was at last slain by Achilles, and his body was borne in triumph three times round the walls of Troy. Jupiter (Zeus) interposed and ordered the body to be given up to Priam, after which the warrior was buried with great

pomp and solemuty

Hecuba, wife of Priam was a dignified and much enduring mother, whose lot it was to see her husband and her favourite sons killed by the enemy. After the fall of I roy she fell to the lot of Ulysses and accompanied the conquerors on the voyage back to Greece, but while halted in the Thracian Chersonesus, after trying to avenue the murder of her son, Polydorus, she cast herselt into the sea at

Relana, daughter of Jupiter (7eus), and Leda, famed for her beauty. Among her suitors were the most celebrated princes of the age, but she ultima (b) became the wite of Menclaus, king of Incompanies. Paris, the tuting of pecane the wire of scriegars, and of Lacedemon. After three years of happiness, Pars, son of Praga, Eag of Froy, cane on a visit to the court of Metrelius, and persuaded Helena to followhm to Troy. To avenge this outrage the Trojan

War was begun. When Paris was killed, in the ninth year of the war, she married Deiphobus, but afterwards betrayed him in order to regain the favour of Menelaus, which she succeeded in doing, and remained with him util his death.

Helle, daughter of Athamas and Nephele, and sister to Phryxus. Nephele escaped with her two children, when the sacrifice of Phryxus was demanded, the three being carried away upon the back of the ram with the golden fleece, but crossing the sea between the Chersonesus and the Sigeum, Helle fell into the sea, which now bears her name, the Hellespont.

Heraclides, the name given to the descendants of Hercules, who were said to have led the Dorians in the invasion of Peloponnesus, which resulted in the three Heraclidæ obtaining kingdoms, Argos falling to Temenus, Messenia to Cresphontes, and Laceda.non to the two sons of Aristodemus, who died before the

onquest was completed.

conquest was compresed.

Haroules (Greek, Heracles), son of Jupiter (Zeus) and Alcimena, is the personification of physical strength, and the most wonderful stories are related. of his exploits. Even while in his cradle he strangled or us exploits. Even which in its crade he stranging two serpents which juno (Hera) had sent to destroy him. At eighteen he killed the lon of Mount Cithaeon. Afterwards, baving been rendered mad by Juno, he killed his own clindren and those of his brother, and on recovering was so plunged in grief that he exiled himself and went to consult the oracle of Apollo at Adelphi. He was commanded to serve Eurystheus for twelve years, during which period he was to perform twelve "labours." The gods equipped him for his tasks and he carried them through successfully. The first was to kill the hon of Nemea, which he choked to death; the second was to destroy the seven headed Lermean hydra, which he killed with his club of brass, the gift of Vulcan; the third was to capture the Arcadian stag, Vulcan; the third was to capture the Arcadian stag, which he caught in a trap; the furth to destroy the wild boar of Erymanthus; the fifth, to clean Augean stables; sixth, to kill the carmivorous birds of Stymphalis; seventh, to capture the wild bull of Crete; eighth, to capture the marks of Diomedes; ninth, to obtain the girdle of the Queen of the Amazons; tenth, to slay the monster Goryon, elevanth, to obtain some golden apples from the garden of the Hesperides; and twelfth, to bring to earth Cerberus, the three-headed dog of Hades earth Cerberus, the three-headed dog of Hades He was now free from service to Eurystheus and returned to Thebes He continued to achieve wonderful feats, and died at last from the poison of of his own arrows, was carried to Olympus and

of his own arrows, was carried to Olympus and endowed with unitoriality

Rarmes, son of Jupiter (Zeus) and Maia, and the patron of arts and inventions. He is said to have been the inventor of astronomy, gymnastics, the alphabet, the lyre, and other important things. As the herald of the gods, he was cultrusted with the guidance of the shades of the dead to the under world, and was called the god of roads, the Greeks erecting statues to him on the waysides.

Haro and Leander. (See Leander**.)

Hasperides, the three daughters of Atlas and Hesperis, apipointed to protect the golden apples which Juno (Heral gave to Jupiter (Zeus) on the day of their nupitals. The hundred-headed dragon, Ladon, was always on guard at the foot of the tree,

Ladon, was always on guard at the foot of the tree, but was slain by Herchies when he made his suc-

but was sain by herenies when he made his successful attempt to regam possession of the apples.

Bippoorene, a fountain at the foot of Mount Helicon, originally set flowing by the ground being struck by the hoofs of Pegasus, the wingou horse. This fountain was dedicated to the Muses and regarded as the source of poetic inspiration.

regarded as the source of seven or more heads, each of which grew again when cut off, whose ravages in the marshes of Lernea kept the country in terror. It was one of the twelve "labours" of Hercules to

destroy this Hydra.

Hygeia, the goddes of health, said to be the daughter of Æsculapius, and held in great veneration among the ancients. Some authors confound her with Minerva. She is usually depicted holding a serpent in one hand and a cup in the other.

Byman, the god of marriage, was one of the Muses and the son of Apollo. He is generally represented as crowned with flowers, and holding a bridal torch in one hand and a purple vestment in the other. Hymen's good offices were always invoked by the Greeks at their marriages.

Ryparion, one of the Titans, was father by Thea of the Sun (Hellos), the Moon (Selene), and the Dawn (Eos). His father was Heaven (Uranus), his mother Earth (Eq.)

Iphigenia, daughter of Agamemon and Clytem nestra. At the outbreak of the Trojan War it was proclaimed by the priest of Apolio that the wrath of the gods, aroused by the kulling of the sacred stag by Agamemon, could not be appeased except by the sacrifice of lphigenia, and contrary winds detained the fleets until this was performed. Just the kinde of the priest was uplifted, Artemis carried off Iphigenia to Taurus, and a goat that appeared in her place was immolated instead of her. The Greens then proceeded against Troy. Iphigenia became a pristess, and was afterwards the instrument in saving the life of her brother Orestes when he was about to the life of her brother Orestes when he was about to be sacrificed.

Iris, daughter of Thaumas and Electra, was one of the Ocemides and messenger of the gods. He-office was to cut the thread of life as the body was expiring. She was the goddess of the rainbow, and is represented as a winged figure with a herald's

is represented as a winged figure with a herald's staff and pictier.

Isla, daughter of Saturn and Rhea, and one of the chief divinities of the anciert Fgyptians.

Ixloa, King of Thesaly, and husband of Dia, to whose father Deioneus be promised a valuable gift, but being unable to obtain the gift, he put his father-in-law to death to get out of his promise. Jupitor (Zeus), after a long period of explaition, summoned him to Olympus and placed him at the table of the goods. Afterwards Ixion began to make love to Juno, but Jupiter substituted a cloud of the shape of the goldess, and from this the Centaurs were born. Then as a punishment Ixion was condemned to be bound to a fiery wheel that never ceased to roll through Hades. roll through Hades,

Janus, son of Apollo, was supposed to have two faces, symbolising the sun and the moon respective'y. He presided over gates and avenues, and is repre-

rie prosition over gates and avenius, and is represented with a key in one hand and a rod in the other. The first month of the year was named after him, as also one of the seven hills of Kome.

Jason. (See Argonauta.)

Juno (Greck Hera), wife of Jupiter (Zeus), and queen of heaven. Some authors represent her as the daughter of Saturn and Rhea. She was an exacting and jealous wife, and avenged herself with severity upon those of whom lunter became enamoured as and Jealous with, and averaged nersell with severity upon those of whom Jupiter became enamoured as well as upon their offspring. She was the mother of Mars, Hebe, Lucinia, and Vulcan. She aided the Greeks in the Trojan War. The worship of Juno it Rome dates from an early period, and the Kalends were dedicated to her.

Jupiter (Greek Zeus), son of Saturn and Ops, was the lord of heaven and presumed father of gods and the lord of heaven and presumed father of gods and men. He was educated in a cave on Mount Ids, and while a child made war against and conquered the Titans. Thus he became master of the world, and after giving the empire of the sea to Neptune, and that of the infernal regions to Pluto, installed himself king of heavon. The story of his adventures and amount occupies a chief part of the mythological legends, and are referred to under the distinctive stores of the previouses or places concerned. He legends, and are referred to under the distinctive names of the personages or places concerned. He is usually depicted seated on a throne, with thunder-bolts in one hand ready to be hurled against his enemies, and a sceptre of cypress in the other, and wearing a wreath of clive or myrile. The temples to Jupiter were numerous, and at Rome the worship of the god was under the charge of the chief of the

Leacoon was the priest of Apollo, and son of Priam, and for the part he took in opposing the entrance into Troy of the wooden horse of the Greeks, Minerva caused two gigantic screents to issue from the sea and engage Laocoon's two sons in their tools. The father rushed to the rescue of his sons, and the next monormal litters were in the grays of and the next moment all three were in the grasp of the serpents, and were crushed to death. One of the finest pieces of sculpture of ancient Rome represents this dramatic scene. It is at the Vatican.

sents this dramatic scene. It is at the Vatican.

Leander, a youth of Abydos, who fell in love with
Hero, a priesties of Venius at Sestos, by whom his
passion was returned. They net clandersinely,
Leander swimming over the Hellespiont mightly,
guided by a lamp which Hero hung out on
the top of a tower. The light being blown out
one wild night Leander lost his way and was
drowned, on discovering which Hero threw herself
into the sed.

into the sea.

into the sea.

Leda, wife of Tyndarus, king of Sparta Jupiter discovered her bathing, and became enamoured of her, assuming the shape of a swan so as not to alarm her. Leda afterwards brought forth two eggs, from one of which sprang Helen, and from the other Lastor and Pollux.

Loki, the god of evil of the Scandravian mythology.

Maps (Greek Ares), the god of war, and one of the three tutclary detites of Rome, was a son of Jupiter and Juno. His love for Venas led to many adventures, and gained limit the enunty of Apollo and Vulcan, and in the wars of Jupiter and the Trians he was seized and imprisoned until Mercury interceded for him. In the Trojan War he espoused the cause of the besieged, The Romans believed him to be the father of Romalus.

Beleager, son of Unious, king of Artcha, and Althra, was one of the Leroes of the expedition of the Argonaus, and subsequently led the chase after the Calydon in loar. It had been decreed by the Fates after his birth that he, should he as long as a certain highroul them on the fire should not be burned up, and his mother snatched the brand from the fire and thereafter jealously guarded it When Althen heard or Melcager's slaying of the boar when Attach near to sackager's saying of the look, she went to the temple of the grids to return thinks, but on the way she saw the bodie, of her brothers whom Mcleager had slam because they protected against the skin being given to Atalanta. This so increised Alikea that the wint bome and class the fatal frebrand on the fire, and when it was consumed Meleager died

Melpomene, the Muse of tragedy, was a daughter of Jupiter and Mnemosyne. She was generally represented wearing a bushin, with a tragic mask in

her hand and sometimes a dagger

Memnon, son of Tithems and Aurora, led a force of

10,000 of his own merrin and of his nucle, king Priam in the Trojan War. He was staln by Achilics after a long and terrible encounter. The famous statue of Memnon at Thebes is now declared to be that of an

ancient Fig pitan king, and not of Mennon.

Enelaus, king of Sparta and brother of Agametinon, was the histonic of Helen, and after sheleft him and followed Paris to Troy, he entered upon the Frojan War, in which he bore himself with great bravery. After the war he forgave Helen and took her back, but they did not reach Sparta until eight years later.

Mentor, the friend of Ulysses, who, during the latter's absence at the Trojan War, saw to the training and education of Ulysses, son Telemachus, a task of which he acquitted hunself so well that the term Mentor has become proverbal as that of a wise ruide.

Maia, was Jupiter's messenger, and patron of travellers, shepherds, traders, and robbers, and god of merchandise. Many of his exploits turn upon

thievery or mischief, and he is credited with hav... timevery or inscener, and he is creatited with having robbed Neptune of his trident, Venus of her girdle. Mars of his sword, and Jupiter of his secpitre. He wore a winged cap and had wings to his feet, and could transport himself from place to place with the speed of the wind. He was the father of Pan, Hermaphroditus, Autolycus, and many others. There was a famous temple of Morcury at Rome. Eldas, king of Plyrua, who having done Bacching.

midas, king of Phrygia, who having done Bacchis some service was permitted to choose whatever reward he pleased. So he asked that whatever he reward in present. So no isseet that whatever ne touched night be turned into gold, and his prayer was granted. The gift was a fatal one. The things he ate, the clothes he wore, the water he washed in, the very sands on which he stepped after bathing turned into gold, and there was soon such a plethora of a that he had no comfort in life. For giving the opinion that Pan made better music than Apollo lie was given ass's cars. His death came about from drinking bot bull's blood

Minerva, the goddless of wisdom, war, and the liberal arts (G.eek, Athena, also Pallas), was the daughter of Jupiter and Metis, and sprang direct from her father, brain. She is represented as being imper-sions to the passion of love and a virgin of divinity. Many temples were erected to her in Greece and Rome. She is depicted as wearing a helmet, and

carrying a shield

Minos was king of Crete and took for his wife Pasiphae, who bore him several children. (See

Minotaur).

inotaur was half bull, half man, and was the unnatural adspring of Pasaphae and a bull. This came about by Minos's retusal to sacrifice a white Minotaur " bull to Neptune, whereupon the latter caused Pasiphae to become enamoured of a beautiful bull The Minotaur was confined in a liberinth by Minos, and every year the monster devoured seven youths and seven madens, which the king compelled the Athenians to yield up to him. Ultimately the Minotau, was slam by Theseus, and Minos was subsequently put to death by Cocalus, King of Sicily.

Mnemosyne, the goldess of memory and mother of the Mises. She was woodd by Jupiter in the form

of a shepherd

Morpheus, son of Sommes, was the god of sleen and decine. He is generally represented as a chubby, wange I chick, holding poppies in his hand.
Mors, one of the arternal detties, the offspring of Night.

Naroisaus, a beautiful yearb, son of the river god Cephasas The nynaph I tho (see Bcho) fell in love with him, but he dai not return her passion To aveng this offence, Venus caused him to be come enamoured of his own reflection in the waters of a Unable to possess himself of this shadow, he at last killed himself.

he at last killed hunself.

Nemesis, daughter of Nox and goddess of vengeance. She is sometimes represented with a helin and a wheel, and sometimes in a charlot public by griffins.

Neptune (Greek Poscidon) was the son of Saturn and Ops, and brother of Jupiter and Pluto. To him was given the kingdoin of the set, but he did not regard this as equal to the empire of heaven and earth, and he conspired with other gods to dethrone Jupiter. For this he was punished, but afterwards accepted his portion pracefully. He made love to Amphitrite as a dolphin, and assumed other shapes for other like die epitons. He is usually represented with a tradent in his hand being drawn across the sea in a charnot by brazen-hoofed horses, attended by tritons and uvmpbs. tritons and nymphs,

tritons and nymphs.

Nersus, a sen detry, son of Oceanus and Terra, and hisband of Doris, by whom he had fifty daughters called the Nerendes. His abade was the Ægean Sea, where he was surrounded by his daughters, who often sported and sang around him. He was gifted with prophecy, and forctold to Paris the consequences of his elopement with Helen.

Mestor, King of Pylos, and grandson of Neptune. When Hercules slew Nestor's father and eleven brothers, Nestor was saved because his tender age detained him at home. He joined the Greeks in the Trojan War, although an old man, and did more good service by wise counsel than many of the heroes by force of arms. Agamemnon declared that if he had had ten generals like Nestor Troy would soon have been reduced to ashes.

Miceteria, a festival at Athens in memory of Minerva's victory over Neptune in their dispute

about naming the capital of the country.

Niolppus, a tyrant of Cos, one of whose sheep is said to have brought forth a hon, which was regarded as portending future greatness and sovereignty to Cos.

sovereignty to Cos.

Miobs, daughter of Tantalus, King of Lydia, and wife of Amphion, King of Thebes, by whom, accord-to Hessod, she had ten sons and ten daughters. Intense prale of her offspring caused her to sneer at Latona, who had only two children, Apollo and Diana, and, to avenge this insult, all Niole's sors were killed by Apollo's darts, and all her daughters, except Chloris, were destroyed by Diana, while Niobe herself was transformed by Jupiter into stone, which in summer shed incessant tears.

Mireus, a King of Naxus, son of Charopus and Algaia, much celebrated for his beauty of person. He was one of the Grecian chiefs during the Trojan

Nisus, a son of Hyrtacus, born on Mount Ida. He accompanied Æneas to Italy, and showed great bravery against the Rutulians. In endeavouring to rescue his friend Emryalins from the enemy he was himself slam as well as Euryalus. Their friendship became proverbual.

Roctiluca, a surname of Diana. She had a temple on Mount Palatine, Rome, where it was customary

to show lighted torches by night

Socium and the control of the gods of inght, and supposed to be identical with Vesper or Nox.

Socium, the south wind, also called Auster. Ovid described Notus as having wet wings, with a forehead covered with dark clouds, and the beard heavy and swollen with most

Numa Pompilius succeeded Roundus as king of Rome, and reigned wisely and peacefully for thirtynine years.

Numenia, or Naomania, a festival observed by the Greeks at the beginning of every lunar month, in honour of all the gods, but especially of Apollo, or

Nympha, female deities of two classes, of the land, and of the sea, and supposed to live for thousands of vears.

Ocnus, a sou of the Tiber and of Mauto, who assisted Æneas against Turnus

Cidipus, son of Lams, King of Thebes, and Jocasta. It was predicted before Cidipus was born that Laius would perish by the hands of his son, so as soon as the boy was born he was ordered to be destroyed, but Jocasta gave the child to a servant who carried him to a mountain and left him there, Who carried min to a monitan and elect min there, he was discovered by a shepherd and educ ited as his own child. When grown to manhood he had an accidental meeting with Laius. The latter was driving along in his chariot, and the roa. being narrow the King ordered Edipus to make way for him. Edipus refused and in the encounter that ensued Laius was slain by his son, as the oracle had predicted. Proceeding to Theles, Œdipus found the population in the power of the Sphynx sent by the population in the power of the Sphynx sent by Juno to lay waste the country, everyone who failed to answer the riddle the Sphynx propounded being destined to death. The kingdom and the hand of the Queen were offered to whomsoever would answer the riddle and free the people from the monster. Œdipus solved the riddle, the Sphynx killed itself out of mortification, Œdipus became king and married his own mother. Later, Thebes

was overrun by the plague and the oracle announced that the epidemic would not stop until the murderege of Laius was discovered. In the end, Gidipus was made aware of his true position and identity, and the revelation caused Jocasta to hang herself, and Edipus to tear his eyes out. Afterwards he wandered forth with his daughter Antigone and died at Colonos.

Œnomaus. a son of Mars by Sterope, the daughter of Atlas. He was king of Pisa, in Elis, and tather of

Hippodamia.

Enone, a nymph of Mount Ida, daughter of the river Cebrenus in Phrygia. She foretold to Paris that his voyage to Greece would be fatal to him and the run of his country. When Paris was dying, and saw that her predictions were being fulfilled, he ordered his body to be carried to her, in hopes that she still might save hun, but he expired as he came into her presence.

Ogmius, a name of Hercules among the Ganls, who looked upon him as the god of eloquence and per-

Olympus, a mountain of Macedonia and Thessaly (now Lacha). The ancients supposed that its rop reached the heavens, and from that developed the idea of its being the abode of the gods and the location of Jupiter's court.

Omphale, queen of Lydia, and daughter of Jardanus. She desired to see Hercules, and her wish was gratified After the murder of Eurytus, Hercules fell sick, and was ordered to be sold as a slave, that he might recover his health and senses. Omphale bought him out of slavery, and he became enamoured of the queen, who bore him a son.

Opus, a city of Locris, on the Asopus, destroyed by an earthquake. It was the birthplace of Abder the favourite of Hercules, and it was there that Patrochis accidentally killed Llysonimus.

Orbona, a goddess of Rone, who was supplicated not to deprive children of their parents. She was the protectress of orphans

Oreades, nymphs of the mountains, daughters of Phoroneus and Hecate. They generally inded-upon Diana, and accompanied her in hunting.

orestes, son of Agamemon and Clytenmestra, was the marderer of his mother and Ægrathus. (See Electra.) After that deed the Fures haunted him and he field from one country to another. He afterwards, by Apollo's command, submitted hinself to the court of the Arcopagus, and being acquitted returned to Argos and ascended the throne. (See Iphigenia.

orion, a innous giant, spring from Jupiter, Neptune and Mercury Demanding the hand of Hero or Merope, daughter of Emopon, king of Chius, in marriage, her father set him the task of clearing the island from wild beasts as the price of betrothal. This, deed Orion wastly achieved, and Emopion, on the pretence of complying, intoxicated Orion, and when he was asleep put his eyes out. Afterwards he recovered his eyesight by turning his wards he recovered his eyesight by turning his vacant eyes to the rising sun, and at once revenged himself upon the king. After death, Orion was placed in heaven, where one of the constellations bears his name.

Orphous, son of Œagar by Calhope, had a lyre given to him by Apollo, and played upon it so exquisitely that all things manimate as well as animate were charmed. He was one of the heroes of the Argonautic Expedition, and on his return married Eurydice. Later Eurydice died from the sting of a serpent, when Orpheus followed her to Hades and charmed Pluro and his associates so much that his wife was allowed to accompany him back to earth, on condition that he did not look upon her until the

on condition that he did not look upon her until the borders of Hades had been passed. The temptation was too great: he looked, and lost her for ever. Orthus, a dog which belonged to Geryon, from whom and the Chimzera sprang the Sphinx, and the Nemean hon. He had two heads, and was destroyed by Hercules.

Osiris, the son of Jupiter and Niobe, and the chief divinity of the ancient Egyptians.
Ossa. (See Palion.)

Pan, the god of shepherds, huntsmen, and rural people, said to have been the son of Mercury and Penelope. He is represented with two small horns, reneigher. The represented with two sinal norms, a flat nose, and the lower limbs of a goat. He was full of tricks and inischief, and by transforming humself into other shapes, captivated in turn Diana and Echo. He was chief of the Satyrs.

Pandarus, son of Lycaon, who assisted the Trojans against the Greeks, and, being without a charot, generally fought on toot. He was killed by generally fought on foot.

Pandia, a festival established at Athens by Pandion. Pandora, the first woman that trod the earth, was first made as an image by Prometheus, and then invested with life with fire stolen from heaven. In revenge, Jupiter ordered Vulcan to make a woman out of the earth, who was also called Pandora, and endowed with every gif. She married lipimetheus, and gave her husband a box which she had brought with her from heaven. When this hox was opened, there issued from it every kind of human ill and dis-temper, which spread themselves over the world. Hope alone remained at the bottom of the box to shed its influence in easing the troubles of life. Thus a gift which is more noted for the bad which accom-

a git which is more notice for the fact which accom-panies it than the good is called a Pandona's lox. Parcos, the three Pates—Clotho, who held the distaff upon which the thread of life was spun; Lachesis, who turned the spindle and decided the actions and events of life; and Atropos, who held the scissors to cut the thread of life.

Parls, son of Friam, king of Troy, was brought up as a shepherd, and made himself prominent, and won and married drinone. At the marriage of Felms and Thetis, the golddess of discord threw an apple among the assembly, me the goddesses present claimed the apple, and when the claurants had been reduced to three-june, venus, and finerva-laris was called upon to give judgment, and decaded in layour of venus, who rewarded him with Helen (See Helen.)

Parnassus, a mountain of Phoels, dedicated to the

Parmassus, a mountain of Phocis, dedicated to the Muses, and to Apollo and Bacchus.

Patroclus. (See Achilles.)

Pax, an allegorical divinity to whom the Athenians raised a statue, representing her as holding the mant Plutus, god of wealth, in her lap, to intimate that peac.

2 prosperity The Romans represented her with the horn of plenty.

Pagasus, the winged horse which sprang from the blood of Meduca after Perseus had out of her head. He assended to Olla these address of the page through the page.

holoid of McCusa after Fersen and ut on her leads the ascended to Ohympus and became thunder and lightning carrier for Jupiter (Zeus). He was given to Bellerophon to conquer the Chimera, and after the task was completed, Bellerophon wanted to scale the heavens on the back of Pegasus, but the annual threw him, and flew up to Olympus alone, and was

placed among the constellations by Jupiter

Pellas, the twin brother of Neleus, and the son of
Neptune by Tyro, the daughter of Salmoneus. His birth was concealed by his mother, and he was exposed in the woods, but his life was saved by shepherds and he received the name Pelias from a spot of the colour of lead on his face. Pelias visited his mother and after the death of Cretheus, Tyro's second husband, he seized the kingdom. Later Jason demanded the kingdom which Pehas had usurped, and the latter offered to resign it to him if he would recover the Golden Fleece. After the retum of Jason, Medea caused Pelas to be put to death. Pelion, a mountam of Thessaly, the top of which was covered by pines. In their wars against the gods, the giants placed Mount Ossa upon Pelion, to scale the heavens with greater ease.

Persephore, wife of Pluto and gueen of the nether world. She was the daughter of Jupiter and the mother of the Fures. and the latter offered to resign it to him if he would

mother of the Furies.

Persous the task in the hope of getting rid of set Persous the Congon Medusa, and bring the head to Polydectes, who liad set Perseus the task in the hope of getting rid of

him. Obtaining Pluto's helmet, which rendered him invisible, and other aids from other gods and goddesses, he few through the air to the land of the Gorgons. Finding the Gorgon saleep, he was able to cut off Medusa's head, and flew away with it, reaching the court of Polydectes in time to save his mother Danæ from falling into his toils. He married Andromeda, whom he had rescued from death in Ethiopia. (See Andromeda.)

Phomnix, a fabulous bird of the Egyptian mythology, said to have lived for hundreds of years, and then consumed itself on a funeral pyre set aflame by its wings, springing up again into new youthfull life from

wings, springing up again into new youthful life from

the asher

Pleiades, the seven daughters of Atlas and Pleione, who being pursued by Orion appealed the godtoe succour and were transformed into doves i

100 succour and were transformed into doves a placed among the stars.

Pluto. (See Hades.)

Polyphemus, son of Neptune and chief of the Cyclops. He lived in a cave near Mount Ætna Ulysses and twelve companions entered this cave, and six of them were devoured by the moster Then he fell asheep and Ulysses put his one eye out and servand. (See Bellet) and escaped. (See Acis.)

Pomona, the goddess of fruit trees.

Priam, king of Troy and father of Hector and Paris

(See Paris and Hector.)

Proteus, a soothsayer who lived in a cave on the island of Phares, and who could only be made to ntter his prophecies when caught asleep, as while awake he had the power of changing his shape so as not to be recognised.

not to be recognised.

Payche, a pymph whom Cupid married and visited nightly, concealing his features from her and leaving before dawn. She contrived to see him night however, as he slept, by lighting her lai enraptured with his beauty. He was awakened by the falling upon him of a drop of oil and fid. After that she wandered in search of him, but mourred it entered by Wenty, how the day to the art he law. hatred of Venus, who tried to thwart the love Psyche was ultimately mitted to Cupid, however, a d

Psyche was ultimately muted to Cupid, nowerer, a nendowed with inmortality.

Pygmalion, a sculptor who, having carved a beantful statue in nory of a weuman, appealed to Venus to breathe life into it, which the goddess did, and he marned the animate statue, who bore himpaphos, founder of the city of that name in Cyprus Python, the famous scripent of the caves of Mount Panassus 11 was born from the mud left 'y the Deucahon deluge. Apollo slew the monster.

R

Rhadamanthus, son of Jupiter and Europa, who hived such a lite of rectitude that at his death he v appointed one of the three judy's of Hades, Mu and Lacus being the other two

Ripheus, a Troian who joined. Friends the night that joy was reduced to askes, and was eventually killed after making a great carnage among the

Greeks.

Romulus, twin brother to Remus, son of the vestal virgin Sylvia. The mother was condemned to be buried alive and the children thrown into the Tiber omers are and or containen thrown into the Tiber. The boys were rescued, however, and suckled by a she-will. Afterwards they resolved to found a city, but quarrelled as to its situation, and in the conflict Retnus was killed. This left Romulus free to act upon his own choice and Rome was accordingly both.

Salamis, daughter of the River Asopus, by Methone. Neptune fell in love with her, and carned her to an island of the Ægean, which afterwards bore her name, and where she gave birth to a son called Cenchreus.

Enarcte, who married Alcidice, by whom he had Tyro. To imitate the thunder he used to drive his

chariot over a brazen bridge, and darted burning torches on every side to insitate lightning. This angered Jupiter, who struck Salmoneus with a thunderbolt and placed him in Hades near his brother Sisyphus.

asturn (Greek, Chronos), the oldest divinity of the Greek and Roman mythologies, and supposed to be the god of agriculture. From before the founding of Rome, festivals in his honour, called Saturnalia, were held. He is generally represented as a bent old man, holding a child in one hand (indicating his habit of devouring his children) and a scythe in the other. other.

other.

Saturn, a son of Ccelus, or Uranus, by Terra. He avenged his father's cruelty by mutilating him with a scythe, and afterwards obtained his father's kingdom, his brothers assenting on condition that he did not bring up any male children. Saturn therefore always devoured his sons as soon as they were born, but his wife Rhea, concealed from her husband her sons Jupiter, Neptune, and Pluto, and gave him large stones to swallow instead of her male offspring. It was this that led to the Titans making war upon Saturn, and his ultimate overthrow. Jupiter banished him, and he fied to Italy, where Janus received him him, and he fied to Italy, where Janus received him with marked attention.

with marked attention.

Soylia and Charybdis. Scylia was a dangerous rock near the Itahan coast in the Strait of Messina. This rock was a peril to mariners, but in avoiding it they were often drawn into the Charybdis whirlpool on the opposite side; hence the proverb, "to escape Scylia and fall into Charybdis."

Semale, daughter of Cadinus and nother of Bacchus, lustice stated her of the day of the stated here.

Jupiter visited her as the god of thunder and she was killed by the lightning, but gave birth to Dionysus, whom Jupiter saved and protected.

Sarapia, an Egyptian divinity, to whom many temples were built.

temples were built.

Sibyls, ten in number, were endowed with the gift of prophecy. They compiled and kept the Sibyline Books, of which there were nine volumes, three of which were bought by Tarquin and carefully preserved, until destroyed in the great fire of Sulla's time.

Simolatus, a Trojan prince, son of Anthemion, killed by Ajax.

Sphinx, the monster that Juno sent to propound the riddle to the Thebans. It had the head of a winged iton. The great Sphinx of Egypt is 79 feet long and 56 feet high, and carved out of solid rock.

Tantalus, a son of Jupiter. For revealing his father's secrets he was punished with a raging thirst and unable to obtain the water and fruits that he saw close at hand.

Telemachus, son of Ulysses and Penelope. (See Mentor.)

Terpsichore, the Muse of Choral Dance and

Thalla, the Muse of Comedy.
Themis, the goddess of law and justice, and wife of

Themia, the goddess of law and justice, and whe or jupiter.

Thiabe, a maiden beloved by Pyramus. Their parents opposed their union and they appointed to meet at the tonib of Ninus. Thisbe reached the place first, but seeing a lion ran away, letting her garment fall in her flight. Pyramus seeing this when he came thought she had been murdered and killed hinself. Then Thisbe returned and at the sight of her dead lover put an end to her own life. Sight of were a race of rights who waged at ten years'

Titans were a race of giants who waged a ten years'
war with Jupiter, but were ultimately conquered and

imprisoned in a cavern near Tartarus,

TT

Ulysses, one of the Greek leaders of the Trojan War and inventor of the wooden horse.

Yenus, the goddess of love, daughter of Jupiter and Done, but according to later legend born of the foam of the sea. She received the prize of beauty in the judgment of Paris. Cupid was her son. Yeata, the goddess of the hearth, a maiden divinity who was attended by vestal priestesses, all pure as

the goddess herself.

Yulgan, the god of fire, and son of Jupiter and Juno.
He made the armour of the gods and had his work
shops in several volcanic mountains rs well as one in Olympus.

Z

Zaus. (See Juniter.)

PRESIDENTS OF THE UNITED STATES.

The terms are for four years, and no President has served more than two terms.

George Washington												1789	James Buchanan	1857
George Washington												1703		1861
John Adams	-				-	- :		1			: :	¥797	Abraham Lincoln (assassinated April 14 same year)	*86c
Thomas Jefferson .												1800		1865
Thomas Jefferson .														1869
ames Madison	•	•			-	•	•	•		•	***	1800		1873
ames Madison	•	•	٠.		•		• •	•	•	•	٠.	1813		1877
lames Monroe														1881
													Gen. Chester A. Arthur (elected from Vice-Pres.)	1091
aines Monroe													Gen. Chester A. Arthur (diected from vice-fres.)	
John Quincey Adams	s	٠	• •	•	٠	•	•	٠	٠	•	٠,	1825	Grover Cleveland	
Andrew Jackson	٠	٠		•	•		• •	٠	٠	•	٠.	1829	General Benjamin Harrison	
Andrew Jackson													Grover Cleveland	1893
Martin Van Buren .			٠		•_			٠	r.	٠			W. McKinley	1897
General Wm. Henry	н	lat	Tis/	on	(d	ied	Α	рr	11 4	()		1841	W. McKinley (assassinated same year)	IOUI
John Tyler (elected :												1841	Theodore Roosevelt (elected from Vice-President)	1901
James Knox Polk .												1845	Theodore Roosevelt	1905
General Zachary Ta	vl	or	(di	ed	Jı	ıly	0. 1	18:	(o)			1849	William Taft	1909
Millard Fillmore (ele	ćt	ed	frv	om	v	iće	· Pı	es	id	en	t) .	1850		1913
Conoral Franklin Pie												1852	•	-,-,



Pears' Office Compendium.

This compendium comprises a variety of items of ready reference on everyday matters and routine, and will be of special utility to business men, accountants, clerks, and others engaged in office work, as well as to the general reader. It includes a number of useful tables, the latest postal and other official information, numerous statistical compilations, full lists of frequently employed—but not always understood—abbreviations, pseudonyms, foreign phrases, etc.; with a host of other matters such as people generally want to know in a hurry.

THE BRITISH EMPIRE.

The British Empire comprises the United Kingdom of Great Britain and Ireland, the Empire of India, and the British Dominions beyond the seas, including the self-governing Dominions, and the Crown Colonies, Protectorates, and other Dependencies, the whole forming one Empire under George V., King and Emperor, whose title rests upon the Act of Settlement of 1701, which settled the succession to the throne on the Princess Sophia of Hanover and "the heirs of her body being Protestants."

The British Empire contains a total area of nearly 12,000,000 square miles, equal to upwards of one-fifth of the earth's surface. Its population is about 416,318,665, or over one-fifth of the inhabitants of the globe.

Component parts of the British Empire.	Extent in Square Miles.	Population.
United Kingdom of Great Britain and Ireland Empire of India and its Dependencies Ceylon and Maldwes Eastern Asia Dominion of Canada, Newfoundland, etc. West India Islands, South America, Falkland Islands Commonwealth of Australia, etc. Dominion of New Zealand South Africa Wast Africa East and Central Africa Mauritius, Seychelles, etc.	121,000 1,900,000 26,000 2,000 3,750,000 130,000 105,000 600,000 750,000 9,000	45,216,665 314,955,240 4,100,000 7,081,869 1,572,000 4,449,983 1,050,000 8,000,000 400,000 450,000

ENGLISH MONARCHS.

I.—BEFORE TI	HE CONQUEST.
SAXONS. Began	SAXONS Reigned
to Reign.	Ethelred II. (the Unready) A.D. 979-101;
Egbert (first "King of the English") A.D. 827	Retired on Sweyn's Proclama-
Ethelwulf	tion; restored (in Canute's absence) on
Ethelbald	Sweyn's death
Ethelbert	Edmund II. (Ironside) divided the Kingdom
Ethelred I	with Canute for seven months 1016
Alfred (the Great) 871	DANES.
Edward (the Elder) goz	Sweyn
Atheistan	Canute
Edmund I. (the Magnificent) 940	Harold I
Edred	Hardicanute SAXONS, RESTORED 1040-1042
Edwy	SAXONS, RESTORED.
Edgar (the Peaceable) 958	Edward the Confessor 1042-1066
Edward (the Martyr) 975	Harold II 1066
IIFROM THE CONQUES	T TO THE PRESENT DAY.
NORMANS. Reigned	Reigned
Access. Died. Age. (Years).	Access. Died. Age. (Years).
William I 1066 1087 60 21	Mary I 1553 155B 43 5
William II 1087 1100 43 13	Elizabeth 1558 1603 70 44
Henry I	STUARTS.
Stephen 1135 1154 50 19	James I. (VI. of
PLANTAGENETS.	Scotland) 1603 1625 59 22
Henry II 1154 1189 56 35	Charles I 1625 Beh. 1649 48 24
Richard I 1189 1199 42 10	Commonwealth declared May 19, 1649,
	Oliver Croniwella Lord Protector 1653-8.
John	Richard Cromwell, Lord Protector 1658-0. [actual
Edward I 1272 1307 68 35	Charles II 1640 1685 55 25
Edward II 1307 1327 43 20	James II 1685 Abdicated 1688, Age (a)
Edward III 1327 1377 65 50	death in exile in 1701) 68. Reigned 3 years,
Richard II 1377 Dep. 1399 34 22	William III. and 1680 1702 51 13
HOUSE OF LANCASTER.	Mary II
Henry IV 1399 1413 47 13	Anne 1702 1714 49 12
Henry V 1413 1422 34 9	HOUSE OF HANOVER.
Henry VI 1422 Dep. 1461 49 39	George I 1714 1727 67 13
HOUSE OF YORK.	George II 1727 1760 77 33
Edward IV 1461 1483 41 22	George III 1760 1820 81 59
Edward V 1483 1483 13 0	George IV 1820 1830 68 10
Richard III 1483 1485 35 2	William IV 1830 1837 72 7
TUDORS.	Victoria 1837 1901 81 63
	HOUSE OF SAXE-COBURG
Henry VIII 1485 1509 53 24 Henry VIII 1509 1547 56 38	Edward VII 1901 1910 69 9
Edward VI 1547 1553 16 6	George V 1910
-313 TO 0	

THE ROYAL FAMILY.

His Majesty George V., King of the United King-dom of Great Britain and Ireland, and of the British Dominions beyond the seas, Empieror of India, horn June 3, 1865; married July 6, 1893, to Princess Mary of Teck (born May 26, 1867); succeeded his father, King Edward VII., May 6, 1910.

King Edward VII., May 6, 1910.

CHILDREN.

Prince of Wales (Edward Albert Christian George Andrew Patrick David), born June 23, 1894; Prince Albert Frederick Arthur George of Wales, born December 14, 1895; Princess Victoria Alexandra Alice Mary of Wales, born April 25, 1897; Prince Henry William Frederick Albert, born March 31, 1990; Prince George Edward Alexander Edmund, born December 20, 1902; Prince John Charles Francis, born Iuly 12, 1905. Francis, born July 12, 1905.

SISTERS LIVING.

Princess Louise Victoria Alexandra Dagmar (Princess Royal), born February 20, 1867; married July 27, 1889, the Duke of Fife, K.T., and has issue—Lady Alexandra Victoria Alberta Edwipa Louise Duff, born May 17, 1892 (niarried to Prince Arthur of Connaught, October 15, 1973); Lady Maud Alexandra Victoria Georgina Bertha Duff, bojn Alyrii 3, 1893, Princess Victoria Alexandra Olga Mary, born July 6, 2868. 196R

Princess Maud Charlotte Mary Victoria, born November 26, 2805, married July 22, 2805, Prince Charles, and son of the then Crown Prince of Denmark.

The latter succeeded *0 the Danish throne on January 29, 2906, Prince Charles having meanwhile

been chosen to rule over Norway. He was crowned King Haakon VII., on June 22, 1906, and he and Queen Maud have a son, Olav (born July 2, 1903), who thereupon became Crown Prince of Norway.

BROTHERS DECEASED.

Albert V. C. E. (Duke of Clarence and Avondale), horn January 8, 1864; died January 14, 1892. Alexander J. C. A., born April 6, 1871; died April 7.

UNCLES AND AUNTS LIVING.

Duke of Connaught (Arthur William Patrick Albert),

Duke of Connaught (Arthur William Patrick Albert), born May 1, 1850. Princess Christian of Schleswig-Holstein (Helena Augusta Victoria), born May 5, 1846. Duchess of Argyll, formerly Marchioness of Lorna (H.R.H. Princess Louise Caroline Alberta), born March 18, 1848.

March 18, 1829.

Pruices: Henry of Battenberg (Beatrice Mary Victoria Feodora), born April 14, 1857, whose only daughter, the Princess Victoria Eugenie (Ena), was married to King Alfonso of Spain on May 31, 1906.

UNCLES AND AUNTS DECEASED.

Prince Alfred, Duke of Edinburgh, afterwards Duke of Saxe-Caburg and Gotha, horn 1844. died 1900. Prince Leopold, Duke of Albany, born 1853; died 1884. His son, Prince Charles Edward, became Duke of Saxe-Coburg and Gotha in 1900, on his uncle's denuse

Empress (Frederick) of Germany (mother of Kaises William II.), born 1840; died 1901.

TABLE OF PRECEDENCY.

The Sovereign. The Prince of Wales. Other Sons of the Sovereign.

Brother (or brothers, when more than one) of the Sovereign, Sovereign's Uncles, Sovereign's Nephews, Ambassadors.

The Archbishop of Canterbury.

(In Scotland, Moderator of the General Assembly if in attendance at a royal function.]

The Lord High Chancellor.

The Archbishop of York. Prime Minister.

Lord Chancellor of Ireland.

The Lord President of the Council. The Lord Privy Scal.

The Lord Great Chamberlain.

Lord High Constable.

The Earl Marshal.

The Lord Steward of His Majesty's Household. The Lord Chamberlain.

The last five rank above all Peers of their own degree. Dukes, according to their Patents of Creation,

z. Of England: 2. Of Scotland

3. Of Great Britain;
4. Of Ireland;
5. Those created since the Union.

Marquesses, according to their Patents, in the same order as Dukes.

Dukes' eldest Sons,

Earls, according to their Patents, in the same order as Dukes

Marquesses' eldest Sons.

Dukes' younger Sons. Viscounts, according to their Patents, in the same order as Dukes.

Earls' eldest Sons.

Marquesses' younger Sons.

Bishops of London, Durham, and Winchester. All other English Bishops, according to their seniority of Consecration.

Bishops of the Insh Church, created before 1869, according to seniority.

Secretaries of State, if of the degree of a Baron. Barons, according to their Patents, in the same order as Dukes.

Speaker of the House of Commons. Treasurer of H.M.'s Household. Comptroller of H.M 's Household.

Master of the Horse. Vice-Chamberlain of Household.

Secretaries of State under the degree of Barons. Viscounts' eklest Sons.

Earls' younger Sons. Barons' eldest Sons.

Knights of the Garter. Privy Councillors.

Chancellor of the Exchequer. Chancellor of the Duchy of Lancaster.

Lord Chief Justice King's Bench. Master of the Rolls. The Lords Justices of Appeal.

Lords of Appeal. Judges according to seniority. Viscounts' younger Sons. Barons' younger Sons.

Sons of Life Peers.

Baronets of England, Scotland, Ireland, and United Kingdom, according to date of Patents.

Knights of the Thistle. Knights of St. Patrick.

Knights Grand Cross of the Bath.

Knights Grand Commanders of the Star of India. Knights Grand Cross of St. Michael and St. George. Knights Grand Commanders of the Indian Empire. Knights Grand Cross of the Royal Victorian Order,

Knights Commanders of the Bath.

Knights Commanders of the Star of India. Knights Commanders of St. Michael and St. George.

Knights Commanders of the Indian Empire. Knights Commanders of the Royal Victorian Order.

Commanders of the Royal Victorian Order.

Knights Bachelors. **Judges of County Courts** Companions of the Bath.

Companions of the Star of India.

Companions of St. Michael and St. George. Companions of the Indian Empire.

Members 4th Class of the Royal Victorian Order. Companions of the Distinguished Service Order. Members 5th Class of the Royal Victorian Order.

Eldest Sons of younger Sons of Peers.

Baronets' eldest Sons. Eldest Sons of Knights :-

z. Garter:

2. Thistle;

3. St. Patrick ;

4. The Bath :

5. Star of India;

6. St. Michael and St. George;

7. Indian Empire;

8. Royal Victorian Order:

9. Knights Bachelors.

Younger Sons of the younger Sons of Peers. Baronets' younger Sons.

Younger Sons of Knights in the same order as eldest

Gentlemen entitled to bear arms.

Women rank as their husbands or as their eldest Women rank as their hushands or as their eldest brothers; but the daughter of a peer marrying a Commoner retains her title as Lady or Honourable. Daughters of Peers rank next after the wives of their elder brothers, and hefore their younger brothers' wives. Daughters of Peers marrying Peers of lower degree are given only thenceforth the same order of precedency as that of their husbands; thus the daughter of a Duke marrying a Baron ranks as Baroness only, while her sisters married to commoners would retain their rank and take precedence of the Baroness. Official rank on the husband's part does not afford recognised similar precedence to the wife. There are three Orders confined to Ladies: the Order of Victoria and Albert, the Crown of India, and the of Victoria and Albert, the Crown of India, and the Royal Red Cross, but no special precedence attaches to such membership.

Precedence is formed by statute, patent, or usage, but the chief regulations regarding the order of precedence were settled by Parliament in the reign of Henry VIII.

Precedence locally, in county or city, has not been promulgated by cyritten code, but in any county the Lord Lleutenant hatmally stands first, followed by the Sheriff. In Loudon and other Municipal Corporations—civic or borough—the aldernen, sheriffs, and chief officers have precedence in the order named after the Mayor (or Lord Mayor, as the case may be); the Livery coming next, where such is existent.

CLERGY.

My Lord Archbishop.
I remain, my Lord Archbishop,
Your Grace's most obedient Servant

IN WRITING LETTERS TO PERSONS OF RANK

THE PROPER FORM OF ADDRESS IS AS FOLLOWS:

```
TO THE KING.
      Degin: Sir.

Conclude: I remain,
Your Majesty's faithful and dutiful Servant.
                                                                                                      ARCHBISHOP.
Superscribe:
To the King's Most Excellent Majesty, etc.
THE QUEEN.
Madam.
                                                                                                     Superscribe:
                I remain,
                       With profound veneration
                             Your Majesty's most faithful Servant.
Superscribe:
To the Queen's Most Excellent Majesty, etc.
THE PENICE (OR PRINCESS) OF WALES
Sir (or Madam).
I remain,
With the greatest respect,
Sir (or Madam).
                    Your Royal Highness's most dutiful
                                          and most devoted Servant.
Superscribe:
To His Royal Highness the Prince of Wales, K.G.
To Her Royal Highness the Princess of Wales
PRINCES AND PRINCESSES OF THE BLOOD
              iam (or Sir).
I remain, Madam (or Sir),
Your Royal Highness's most humble
and obedient Servant
       Madam (or Sir).
Superscribe:
To Her Royal Highness the Princess of, etc., or To
His Royal Highness the Dukes of C—; or To Her
Royal Highness the Duchess of C—; or To Frincess
(or Her) Royal Highness Prince E—(or Princess
 R
    DUKES.
                                   NOBILITY.
       My Lord Dake.
                 I remain, my Lord Duke,
Your Grace's most obodient Servant.
    Superscribe:
 To His Grace the Duke of A-, K T., etc., etc., etc.
 MARQUISES.

My Lord Marquis.
Concluding as in the case of a Duke, but with
"Lordship" in heu of "Grace"
    Superscribe:
 To the most Honourable the Marquis of Ripon, K.G.,
    etc., etc., etc.
EARLS, VISCOUNTS, AND BARONS.
My Lord.
    Conclude as to a Marquis.
 Superscribe:
To the Right Honourable the Earl of ——; or To The
Right Honourable the Lord Viscount ——; or To
The Right Honourable Lord ——;
    BARONETS AND KNIGHTS.
       Sır.
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Superscribe: Sir Francis T-

Lady -

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Superscribe:
To His Grace, the Lord Archbishop of Canterbury.
The style of a dress to the Archbishop of Armagh
is: To His Grace the Lord Primate of Ireland, or the
Right Hon and Mos. Rev. the Archbishop of Armagh.
The other Irish Archbishop (Dublin) is addressed in
the same style as the English Archbishops.
                                                                                                                                  BISHCPS.
                                                                                                                                     My Lord Bishop.

1 remain, my Lord Bishop,

Your Lordship's most obedient Servant.
                                                                                                                             To the Right Reverend the Lord Bishop of -... etc.,
                                                                                                                                 etc., etc.
Colonial Bishops are addressed in the same manner
                                                                                                                             Colonial Bislops are addressed in the same manner as those of England. Bushops of the Episcopalian Church of Scotland and of the United States are not addressed by the title of Lord, and letters begin: Right Reverend Sir, and end: I remain, Right Reverend Sir, Your most obedient Servant, Superscribe: The Right Reverend Bishop — [surname]
                                                                                                                             Sumply].
DRANS.
                                                                                                                                     Reverend Sir
                                                                                                                                                      I remain, Reverend Sir.
                                                                                                                                                                               Your most obedient Servant,
                                                                                                                             Superscribe The Very Reverend The Dean of ---
                                                                                                                             ARCHDEACONS.
Begin and end as to a Dean, and superscribe: The
Venerable The Archdeacon—
LURICIAL OFFICERS.
LORD CHANCELLOR.
                                                                                                                                     My Lord.

I have the honour to be, with great respect,
Your Lordship's most obedient Servant.
                                                                                                                                  Superscribe:
                                                                                                                              The Right Honourable The Lord Chancellor, etc.,
                                                                                                                                      etc., etc.
                                                                                                                                  LORDS OF APPEAL IN ORDINARY.
                                                                                                                                      As to Lord Chancellor.
                                                                                                                                  Superscribe:
                                                                                                                              The Right Honourable Lord —
LORD CHIEF JUSTICE
As to Lord Chancellor.
                                                                                                                              Superscribe:
The Right Honourable The Lord Chief Justice of England
                                                                                                                                  MASTER OF THE ROLLS.
                                                                                                                                      My Lord (or Sir).

I have the honour to be, My Lord (or Sir).

Your most obedient Servant.
                     I remain. Sir. Your most obedient Servant.
                                                                                                                              Superscribe:
To the Right Honourable Lord —— (or Sir ————),
Master of the Rolls; or His Honour The Master
                                     -, Bart. ; or Sir John B---, etc., etc.,
                                                                                                                                       of the Rolls.
Wrees of Dukes: Madam I remain, Madam,
Your Grace's most obedient Servant. Superscribe:
                                                                                                                                  LORDS JUSTICES OF APPEAL.
Sir (only addressed as "My Lord" when on the
Your Grace's most obedient Servant. Superscribe: To Her Grace the Duchess of O—.

Wives of Marguizes: Madam. I remain, Madam, Your Ladyships most obedient Servan. Superscribe: To the most Honourable the Marchioness of Q—.

Wives of Earls, Viscounts, and Barons: Begin and end as to a Marchioness. Superscribe: The Right Honourable the Countess of —; or The Right Honourable the Lady Viscountess—; or The Right Honourable Lady—.

Wives of Barvnets and Knights: Madam. I remain, Madam, Your most obedient Servant. Superscribe: Lady—.
                                                                                                                                          Bench)
                                                                                                                                                                I have the honour to be, Sir,
                                                                                                                                                      Your most obedient and humble Servant.
                                                                                                                              Superscribe:
The Right Hon The Lord Justice —: or Interest of Appeal.
                                                                                                                                                                                                                ; or The Right
                                                                                                                              Hon. Sir ——, Lord Justice ——; or T
Hon. Sir ——, Lord Justice of Appea
LORD MAYOR.
The Right Honourable the Lord Mayor of —
My Lord
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Your Lordship's obedient Servant,

Superscribe:
The Right Hon. The Lord Mayor of -

POPULATION OF THE BRITISH EMPIRE.

COMPARATIVE DECENNIAL RETURNS FOR THE BRITISH ISLES. 1811-1011.

The total population of the British Iales as a whole for 1911 showed an increase of 3,757,934 on the population of 1901. The number of mhabited houses in 1909-10 was 9,060,300, showing an increase of 114,420 on the number of the previous year.

ENGLAND AND WALES.

SCOTLAND.

Year.	Total Population.	Decennial Increase.	Per Cent.	Year.	Total Population.	Increase or Decrease.	Per Cent.
28 11	10, 164, 256	1,271,720	14.00	1811	r,805,864	197.444	12'27
1831	12,000,236	1,835,980	18.00	1851	2,091,521	285,657	15.83
r831	14,156,988	1,896,561	15'80	1831	2,364,386	272,865	13'04
E841	15,914,148	2,017,351	14.48	2842	2,620,184	255,798 268,558	10.83
1851	17,927,609	2,013,46I	12.80	1851	2,888,742	968,558	10.32
1861	20,066,224	2,138,615	11'90.	1861	3,062,294	173.552	6 00
1871	22,712,266	2,646,042	13.51	1871	3,360,018	297.724	9'72
1881	25,974,439	3,202,173	14'36	1881	3.735.573	375-555	11.18
1891	29,002,525	3,028,086	11.02	1891	4,025,047	290,074	7'77
1901	32,527,843	3,523,550	12'17	1001	4,472,103	446,456	21 00
1911	36,075,269	13.547.426	10.00	1911	4.759.445	287.342	6.4

IRELAND.

Year.	Total Population.	Increase or Decrease.	Per Cent.
1831 1841 1851 1801 1871 1881 1891 1901	7,767,401 8,175,124 6,552,385 5,798,967 5,412,377 5,174,836 4,704,750 4,458,775 4,381,951	965.574 407.723 *1,622,739 *753.418 *386,590 *237.541 *470,086 *245.975 *76,824	14'19 5'25 19'85 11'50 4'39 9'08 5'23

Total Population.	Increase or Decrease.	Per Co
143,447 144,638 141,260 147,842 150,370	321 1,191 3,378 6,582 2,757	0°22 0 83 ⁶ 2°34 4°66 1°86
148,034	1,436	ł

Indicates decrease in the decennial periods so marked in Ireland and in the Islands as a whole, apart from the mainland.

BRITONS IN FOREIGN COUNTRIES.

It is estimated that nearly 3,000,000 natives of the United Kingdom reside in foreign countries, and the following returns are given of British residents in the undermentioned countries:—

United States	2,791,403 Belgium
France	34,892 Switzerland
Argentine	
Germany	
Italy	8,768 China
Spain	7.759 Egypt
Russia	5,235 Portugal

LONDON BOROUGHS.

Apart from the great local governing bodies of the London County Council and the ancient Corporation of the City, there are in London #5 separate borough councils. The following is a list of these boroughs, with the area in acres, and the number of aldermen and counciliors elected in each, in addition to a Mayor:—

Borough.	Popula- tion.	Alder- men.	Coun cillors.	Acreage.	Borough.	Popula- lation.	Alder- men.	Coun- cillors.	Acreage.
Battersea Bermondvey Bethnal Green Camberwell Chelsea Deptford Finsbury Fulham Greenwich Hackney Hammersmith Hampstead Holbom Islington	167,793 124,739 128,282 261,328 66,385 109,498 87,923 153,284 95,977 222,587 121,521 85,510 49,357 327,403	9 5 10 6 6 9 5 10 6 7 7	54 54 54 56 56 56 56 56 56 56 56 56 56 56 56 56	2,169 1,506 7,55 4,450 0,50 1,574 5,88 1,701 3,837 3,299 2,286 2,248 409 3,109	Kensington Lambeth Lewisham Marylebone Paddington Pancras, St. Roplar Shoreditch Suthwark Stepney Stoke Newington Wandsworth Westininister Woolwich	172,317 298,058 160,834 116,245 142,376 218,453 162,442 111,463 101,907 20,024 50,669 311,360 160,277 121,403	10 10 7 10 10 10 7 7 10 10 10 5 10	60 60 42 60 60 60 42 42 60 60 60 36	2,188 4,105 7,011 1,506 1,400 2,672 2,333 648 1,119 1,765 868 9,106 2,555 8,296

LEADING LONDON CLUBS.

Following the General Club List is given a separate list containing particulars of the Principal London Clubs for Ladies, or to which they are admitted to membership jointly with Gentlemen.

Name.	Est.	Club House.	Entrance Fees.	Annual Subs.	Nature of Club.
			Cuineas,	Guineas.	
Aero (Royal)	1902	166, Piccadilly, W	2	2	Advancement of aeronautics.
Albemarle	1874	37, Dover st., W	5	785	Ladies as well as gentlemen.
Almack's	1908	20, Berkeley-st, W	-	7.4.5	Social,
Alpine	1857	23, Savile-row, W. 36, Pall Mall, S.W. 69, St. James's-st., S W.	£40	7 & 10	Mountain climbing. Army and Navy officers.
Arthur's	1837	60 St Tames's st S W	30	11 & 12	Social.
Arts	1705	40, Dover-st., W	L to share,	7	Followers of art, literature, or
	and	4 .,	plus £6	1 1	science.
	1896				35
Athenæum	1824	107, Pall Mall, S.W	30	8	For men of literature, art, science, and other distinguished persons
Atlantic	1903	12 & 18. Doverst . W.	£25	10	Anglo-American social.
Australasian	1898	24. St. Mary Axe. 1 C.	Suspended		
Authors' !	180t	17 & 18, Dover-st, W 24, St. Mary Axe, 1 C 2, Whitehall Court, S.W.	24	5, 3 & 2	Authors and literary journalists.
Automobile, Royal	1897	Pall Mall, S.W	Ü	8 8 5	Social and those interested in motor-
1	-00-	. 6. 0. 17 1. 115			ing and allied industries.
Bachelors'	1881 1876	7 & 8, Hamilton-pl., W	40	10	Social Sporting and coaching.
Baldwin	1887	no Pall Mail 5 W	16	3 5	Social.
	184	100, Pieradilly, W	10	10	Social, athletic, swimming, etc.
Bath	1870	9, Green-st., Learnter-	17	6	Social.
1		sq W.C.		1	AV 11.
Boodle's	1762	28, St. James's st , S.W	***	11	Non-political, social.
British Chess British Empire	1910	5, Whitehall Court, S.W. 12, St. James's sq., S.W.		886	Chess.
	1764	St languest S W	3.	11	Political and social
Brooks's	1866	St. James's-st. S.W 17. Savile-row, W	1		Artists and art collectors.
Caledonian	1898	30, Charles - st., St.		9,085	Scottish.
		lames v. S.W.			
Camera	1910	17. John-st., Adelphi,	:	1 2 1/2 3	Photography.
Carlton	1832	94, Pali Mali, S.W 127, Piccadilly, W.	£40	10 & 17	Conservative.
Cavalry	1800	127. Piccadilly, W.	27	16 8 11	Officers of the mounted forces.
City Athenaum	1601	Angel Court, P.C	5	5	
City Carlton	1868	24-27, St. Swithin's lane, E.C.	£.1 105	17 1.5	Conservative.
City Liberal	1874	Walbrook, E.C. 19, Old Broad-st., E.C. 7, Grocers' Hall-court, Poultry, F.C.	None	26	Liberal.
City of London	1832	19, Old Broad st., E.C.	30	10	Merchants, cankers, etc.
City of London	1852	7, Grocers' Hall-court,	None	2 97.3	Chess and social
Chess City University	1894	St. Peter's - chambers,	5	6	Social.
City University .	1094	Combill, F. C.	3	1	L'OCIBI.
Cobden	1866	Broadway Court, West-	None	l r	Free Irade
C 0		minster, S.W.			6-43
Cocoa Tree	1746 1899	64. St James's st., S.W. 4. Whitehall-court, S.W.	10	7 & S	Social. Social for Colonials
Conservative	1840	74, St. James's-st., S.W.	5 30	10	Political.
Constitutional	1883	Northumberland-avenue,	15 OF 10	7 or 4	Political.
		W.C.	·		0.43
Devonian	1891	Southampton-row, W.C.	=	144	Social and county Liberal.
Devoushire	1875	50, St. James's-st., S.W. 31, Sackville-st., W.	None	10	
Dutch East India United	1873 1849	16, St. James's sq., S.W.	£22	10 & 1 105.	Indian, military, naval, and civil
Service	-		~		services.
Eccentric	1890	21, Shafte-bury-ave., W.	10	3	Social.
Eldon	1877	3, Cursitor-st., Chancery-	None	4.62	Legal and social
Farmers'	1842	lane, W.C. 2, Whitchall-court, S.W.	1	3 & 8	Agricultural and social.
Farmers		36, Piccadilly, W.	2	3 town,	Anglers only.
Fly Fishers'	1844	30, Fictaumy, W.		114 country	
Garrick		Garrick-street, W.C	20	to country	Theatrical, literary, and social.
Garrick Golfers	1844 1831 1893	Garrick-street, W.C Whitehall-court, S.W	None	5.3 & 1	Golf and social.
Garrick	1844 1831 1893 1877	Garrick-street, W.C Whitehall-court, S.W	None	10	

Name.	Est.	Club House.	Entrance Fees.	Annual Subs.	Nature of Club.
-	_		Guineas.	Gumeas.	
rosvenor	1883	Piccadilly 70, Pall Mall, S.W	None	10 & 8	Social, non-political.
Guards'	1813	70, Pall Mall, S.W	£15	£11 1 6 10	Officers of the Foot Guards.
Gun, The	1860	Wood-lane, Notting-hill, W., and Brook-st., W.	£15	£10	Pigeon shooters.
Hurlingham Isthmuan	1868 1868	Fulham, S.W 105, Piccadilly, W	20 & 10 10	8 & 5 10 & 7	Polo and pigeon shooting. University and public school me and officer, of Army and Navy.
unior Army and Navy	-	Horse Guards'-avenue, S.W.	10	10	Fighting services.
Junior Athenæum . Junior Carlton	1864	776 Piccadillo W	None	10	Social. Conservative.
unior Carnon	1864	30 to 35 Pall Mall	None	4 & 2	Conservative.
unior Constitution'i	1887	tot. Piccadilly. W.	10 & 6	5 & 3	Conservative.
unior Naval and Military	1899	30 to 35 Pall Mall 43, 44, Albemarle-St., V. ror, Piccadilly, W	None	108:8	Commissioned officers.
unior United Ser-	1827	Charles-st., St. James's, S.W.	£40	8	Officers of Army and Navy.
Kennel	1873	8, Savile Row, W.	i –	2861	To promote dog breeding, etc.
Leander	1839	Riverside, Putney, S.W., and Henley-on-Thames Putney, S.W. St John's Wood-rd., N.W. 5, Wardour-st., W. 52, Pall Mall, S.W. St. John's Wood-rd., N.W.	2	2 60 1	For rowing men.
ondon Rowing .	_	Putney, S.W.	£2	2	Amateur rowing.
Lord's (M.C.C.)	1787	St John's Wood rd., N. W.	5	3	See M.C.C. below. Theatrical Managers.
Managers'	1906	5, wardour-st., w	1	10	Social.
Marylebone Cricket	1787	St John's Woodled N W	30 £5	£3	Cricket, tennis, etc.
Cata-	1907		~ ~	ا حي	Social and motoring
funicipal and County	1902	Whitehall-court, S.W	None	1, 2 & 3	Social, municipal officers.
Vational	f845	r, Whitehall - gardens, S.W.	None	43 to 73	Protestant.
Vational Liberal . Vational Sporting .	1891	Whitehall-place, S.W King st., Covent garden, W.C.	Suspended 5 & 2	683	Liberal, Athletic and social,
Vaval and Military		94, Piccadilly, W 4, Grafton-st., W	40	20	Army and Navy.
Yew	1893	ì	20	7 6 4,	Social.
New Oxford and Cambridge	1884	68, Pall Mall, S.W	10	-	Oxford and Cambridge Univers
New Reform New University	1900 1864	to, Adelphi-ter., W.C 57 & 58, St. James's st., S.W.	None 10 & 20	9	Advanced Liberal. Members of Oxford and Cambrid Universities.
Northern Counties.	1800 1801	2, Savile Row, W	None	7 8 5	Non-political. Theatre-goers.
Oriental	1824	18. Hanover-50 W	£31	1 6	Social,
Jrleans	1877	20, King-st., S.W	30	10	Social. Ladies admitted as gues
Oxford and Cam- bridge	1830	18, Hanover-50., W	40	9	Members of Oxford and Cambrid Universities.
Oxford and Cam- bridge Musical Phyllis Court	1899	47, Leicester-sq., W	2	3&1	Chamber music and social.
	1905	Henley-on-Thames	£10 108.	£5 55.	River headquarters, social a sporting.
Playgoers'	1834 1905	Cranbourn-st., W.C. 4, Southampton Row, W.C. o, St. James's-sq., S.W.	2}	2 8 1	Lovers of the theatre. Luiguistic attainments.
Portland Pratt's	1816 1841	o, St. James's-sq., S.W. 14. Park Place, St. James's, S.W. 7. Wine Office Court,	None	10 5	Social and non-political.
ress	1881	W.C.	1	3 town,	Journalistic.
rimrose	1 88 6	4, 5, Park Place, St.	None	2 & 1	Conservative.
rince's	1853	197, Knightsbridge, S.W.	None	7.	Racquets, tennis, and social.
ublic:Schools	1909	197, Knightsbridge, S.W. 19, Berkeley-st., W. 20, Hanover-sq., W.	None	4, 2 & 1 105.	Old Public School Boys, For working microscopists a
ueen's	1886 1858	West Kensington, V'54 . 16, Regent-st., S.W		5 & 3	students. Cricket, tootball, athletic sports. Social.
amblers	1758	217. Knightsbridge	10	58.3	Social, ladies and gentlemen.
anelagh	1894	Barnes, S.W.	20 & 10	10	Social, polo, golf, etc.
eform oyal London Yacht	1836 1838	gry, Knightsbridge	£40 None	10 7	Liberal. Yachting.
Yacht loyal Societies	1804	Cowes, 63, St. James's-st., S.W. 80 and 8z, Piccadilly, W, Pall Mall East	I	6 town	d.iterary, scientific, artistic.
loyal Societies loyal Thames. loyal Water Colour	1775 1884	so and Sr. Piccadilly, W.	Suspended	8 & 6	Yachting.
loyal Water Colour	xue*	Pall Mall East	1	I	Art and social.
it. George's Chess.	1826	87, St. James's-st., S.W. 106, Piccadilly, W. 1, Bridge-st., S.W.	2	3	Chess. Diplomatic.
t. James's	1857	. Bidgest CW	25 10	11 ,	Conservative.

Name.	Est.	Club House.	Entrance Fees.	Annual Subs.	Nature of Club.
			Guineas.	Gumeas.	
avage)		Adelphi-terrace, W.C.	5	5	Art, literature, drama, etc.
avile	18081	107, Piccadilly, W	10	6	Social.
mithfield	1798	12, Hanover-sq., W	None.	I	Livestock interests.
ports	1893	8, St. James's-sq., S.W.	10	6, 3, & z	Social and athletics.
hatched House .	1869	86, St. James's-st., S.W.	10	10	Social.
ravellers'		106, Pall Mall, S.W	30	11 25 01	Travellers.
urf	1868	47, Clarges-st., W	30	12	Sporting and social.
Inion	1822	Trafalgar-sq., S W.	21	10	Social, non-political.
nited Arts	-	35, Dover-st., W			Political (Unionist).
Inited Empire		117, Piccadilly, W	2 & I	6, 4 & T	Tariff Reform.
Inited Service	1815	rio, rig, Pall Mall, S.W.	£30	£10 home	Officers of Army and Navy; Fie Officers Militia and Yeomanry.
Inited University .	1822	r, Suffolk-st., Pall Mall.	40	R R	Members of Universities.
Jrban		Anderton's Hotel, Fleet-	27	-	Literary and social.
		st . E.C.	_	1 - 1	Literary and socialis
lictoria	1857	Wellington-st., W.C	10	6	Social and sporting.
Vellington	1885	1. Grosvenor-place, S.W.	21	10	Social. Ladies admitted as visitor
Vestminster		3. Whitehall-court, S.W.	i	5, 2, & I	Church of England,
Vhitefriars	1867	Anderton's Hotel, Fleet-	_	2	Literature and art.
Vhitehall	1864	Prince's-st., S.W.	_	10, 5, 1	Social.
Vhite's	1730	37, St. James's st., S.W.	25	11	Social, non-political.
Windham	1828	13, St. James's-sq., S.W.	31	£10	Social.
Vireless Society of		107, Hatton-garden, E.C.	105, 00.	1 ~;	Furtherance of wireless telegraph
London	- ,	3			I
orick	TR90	20, Bedford st , W.C	2	2	Literary, dramatic, artistic.

LADIES' CLUBS IN LONDON.

With the Principal Clubs to which ladies are admitted to membership jointly with Gentlemen

Name.	Est.	Club House.	Entrance Fees.	Annual Sabs.	Nature of Club.
			Gimeas	Gamests	
Albemarle	1874	37, Dover-st., W	5	.5	Ladies and gentlemen.
Alexandra	1884	12, Grosvenor-st., W	5 2	5 8 4	Ladies of recognised position.
Automobile (Ladies' Section)	1903	Clandge's Hotel, Brook-	5	5	Social and motoring.
Bath (Ladies' Sec-	1894	16, Berkeley-st , W	10	7	Swimming, social.
Interprise	1900	57, Leadenhall-st., E.C.	28. 6d.	T45.	Lady clerks and secretaries
falcyon	1911	13 & 14. Cork-st., W .	I	3 & 4	Professional women.
Navy	1902	Burlington-gardens, W	3 & 2	5 & 3	Relatives of naval and military officers. Gentlemen admitted as guests.
Ladies' Empire	1002	(o. Grosvenor-st , W	5 & t	5 & 2	Social
adies' Field	1903	Dover-st., W	J	5.6	Social and sport.
усеит	1901	128, Piccadilly, W	1	3 & 2	International club for women devoted to art, literature, etc.
New Century	1900	Hay-hill, Berkeley-sq .	2	T	Social.
New Empress	1897	35, Dover-st . W.	7	7825	Ladies of social position.
lew Era	1001	121, Victoria-st., S.W .	2	1 2	Social
New Victorian	1896	30A, Sackville-st., W	2	283	Social
Pioneer	1802	o. Park-place, W	3 & 2	3 1 2	Temperance.
Sesame	1805	28 and 29, Dover-st W	6	_ b	Laterary and educational.
University	1887	32, George-st., Hanover-	t	1	University and medical women.
Victoria	1804	145, Victoria-st., S.W.	None.	5	Town house for county ladies.
Writers'	1890	ro, Norfolk-st., Strand, W.C.	1	11 16 1	Literary and journalistic.

4

THE	AR	ONS	(1915).

Spring opens Summer ,,	• • •	:::	• • • • • • <i>•</i>	March sz.	Autumn opens		September 23. December 22.
			The longer	at day is June 22.	The shortest day, December 2	21.	

QUARTER DAYS.

ENGLAND AND IRELAND.

Lady Day	Michaelmas	September 29. December 25.					
SCOTI AND							

Lammas Martinnas August 1,

HALF-QUARTER DAYS.

ENGLAND.

February 8. 1 May 9. - 1 November 11. 1 August zr.

BANK AND PUBLIC HOLIDAYS.

In Bagland and Ireland it is ordained that the Bank Holidays shall be: Good Friday, Easter Monday, the Monday in Whitsun week, first Monday in August. the Monday in Wittun week, rist Monday in August, the soth day of December (or the 77th should the 26th be a Sunday) Ireland has in addition a special Bank Holiday on St. Patrick's Day, March 17th.

The Stock Exchange is also closed on January 1st, May 1st and November 1st, in addition to the Bank Holidays.

Empire Day (May 24th, the birthday of Queen

Victoria) is still observed in the Customs and certain other Government establishments as a holiday.

In Scotland it is enacted that the Bank Holidays observed shall be: New Year's Day, Christmas Day should either of the above days fail on a Sunday, the following Monday shall be a Bank Hol'day). Good Filday, first Monday in May, first Idonday in August. There are also one day each annually of special Spring and Autumn holiday in Edmburgh; and one in Clascow on the Fair Saturday in Jug.

Glasgow on the Fair Saturday in July.

BRITISH GAME, FISH, AND SPORTING SEASONS.

Black Game, from August 20 to December to; but in Somerset, Devon, and New Forest, from Septem-ber 1 to December 10.

ber 1 to December 10.

Blackcock—August 20 to December 10.

Buck-hunting—August 20 to September 17.

Bustard—September 1 to March 1.

Red Deer hunted—August 20 to September 20.

Male Deer (Ireland)—October 20 to June 10.

Fallow Deer (Ireland)—June 20 to Michaelmas.

Ealt [about]—August 20. October 30 to Fox Cubs—August 1 to first Monday in November. For Cubs—August 1 to inst monday in revenue Grouse-shooting—August 12 to December 10.

Hare-hunting—October 20 to February 27.

Hare-coursing—Between September and March.

Hind-Hunted in October, and again between Hind—Hunted in October, and agent boar April to and May 26.

April to and May 26.

Moor Game (Ireland)—August 20 to December 16.

Oyster Season—September 10 April.

Partridge-shooting—September 1 to February 1.

Pheasant-shooting—October 1 to February 1.

Ptarmigan-August 12 to December 10. Quan-August 12 to January 10. Rabbits-Between October and March.

Salmon-February 1 to September 1. Salmon, rod-fishing-November 1 to September. Trout-fishing—May 1 to September 10.
Trout-fishing—May 1 to September 10.
Trout, in the Thames—April 1 to September 10.
Woodcocks—November to January.

Game in England—Hare, pheasant, partridge, grouse, and moor fowl. Game in Ireland—Same as England, with the addition of deer, black game, landrail, quail, and bustard. Game in Scotland—Same as Legland, with the addition of ptamigan.

ENGLISH LAW SITTINGS, 1915.

Hilary—Begins January 11, ends March 31. Easter—Begins April 13, ends May 21.

Trinity—Begins June 1, ends July 31.
Michaelmas—Begins October 12, ends December 21.

LAW TERMS IN SCOTLAND.

Law sittings in Scotland are from October 15 to March 20, and from May 12 to July 20. Should the first day of Term fall on a Sunday, legal business commences on the day following. 75

UNIVERSITY TERMS, 1915.

OXFORD.

Lent—Begins January 14, ends March 27. Easter—Begins April 7, ends May 21. Truity—Begins May 22, ends July 10. Michaelmas—Begins October 11, ends December 17.

CAMBRIDGE. Lent—Begins January 8, ends March 27.
Easter—Begins April 18, ends June 24.
Michaelmas—Begins October 1, ends December IQ.

His representatives take in the proportions following.

Intestate dying, leaving

SHOWING HOW AN INTESTATE'S TABLE PERSONAL PROPERTY (INCLUDING LEASE-HOLDS) IS DIVISIBLE AT DEATH IN ENGLAND AND SCOTLAND.

Under the Intestates' Estates Act, 1890, the widow of a man dying intestate and without issue, is entitled to the whole estate, real and personal, if under £500 in value; and if above that amount she is entitled to take £500 out of the real and personal estate rateably before any distribution is made, and to such share in the remainder as she would have been entitled to before the Act of 1890. By the Intestate Husband's Estate (Scotland) Act of 1911, the same provisions are applied to Scotland.

Where an asterisk (*) appears the clause applies to Scotland only

Intestate dying, leaving	His representatives take in the proportions following.
Widow and child or children	alf to widow. Half to the Crown, me-third to widow, two-thirds to children in equal shares. In case of deceased children who have left issue, such issue take amongst them their deceased parent's share. One-third to widow. One-third to hving children in equal shares (but the heir must collate the heritable estare, and those children who have been advanced by intestate during life must collate the advances). One-third amongst living children per capua and issue of deceased children per starpes.
Widow and mother, no father	laff to widow. Half to father. Laff to widow. Half to mother. If the to widow, one-sixth to mother. Two-sixths to Crown.
Widow, brothers, or sisters	all to widow. Half equally amongst brothers and sisters, whether of the whole or half-blood; if a deceased brother or sister has left issue, such assue take amongst them their deceased parent's share.
•]	half to widow. One-fourth to mother. One-fourth to mephiews and nieces per streps. Halfs to widow. One-sixth to mother, two-sixths to nephiews and nieces per streps.
Husband, with or without children	all to husband. Half to husband. Half to wife's next-of-kin.
Father, brothers, and sisters	ll to father. One-half to father. One-half equally amongst brothers and systems.
Mother, brothers, and sisters	Mother one-third, Brothers and sisters two-thirds
Mother, but no other kin	equally. Il to mother.
Child, children, or grandchildren by deceased child . A	One-third to mother. Two-thirds to the Crown, amongst children in equal shares, the grandchildren by deceased children taking amongst them their deceased parent's share.
	mongst brothers or sisters in equal shares, the children of deceased brothers or sisters taking amongst them
Brother or sister, and grandfather	Il to brother or sister. Il to brother or sister. Il to grandfathor
Great-grandfather, uncles, and aunts Uncles and aunts Uncle and deceased uncle's child Uncle by mother's side, and deceased uncle or aunt's	equally for capita. Il equally. Il to uncle.
Aunts, nephew, and niece	Cinki of deceased paternal uncle or aunt takes in exclusion of maternal uncle.
Cousins	qually <i>per capita.</i> Equally <i>per capita.</i> All to nephew by brother.

Taking per capita is taking by head individually. Taking per sterpes is taking by descent or representation.

representation.

By English Law, brothers and sisters of the half blood share equally with the whole blood. By the Scottish Law, brothers and sisters german (that is, by the same father and mother) and their issue take in exclusion of brothers and sisters consangumean (that i., by the same father only) and their issue. And brothers and sisters consangumean and their issue exclusion of brothers and sisters uterine (that is, by the same mother only) and their issue.

Fosthumous children take equally with those born in the lifetime of their father.

TABLE SHOWING HOW THE REAL ESTATE OF AN INTESTATE IS DISTRIBUTED.

The persons named are those who are entitled to administer when the Intestate leaves no nearer relations than those indicated. It should be noted that leaseholds are accounted *personal* and not *real* property; and an illegitimate child cannot inheit real estate.

The Real Estate falls to-Intestate dying, leaving Wife only, no blood relations Third to wife for life, rest to Crown; copyholds to lord of manor. Wife and child, or children, and children of a der eased child

Rest to eldest son or his issue, such son and his issue, whether male or
female, being preferred to any other son and his issue, and all sons and
their issue, whether male or female, being preferred to all daughters and their issue, whether male or female. If no son, rest to daughters equally, If daughters and grandchildren (sons and daughters of deceased daughter), rest to daughters and eldest son of deceased daughter. Third to wife for life; rest to father, if deceased purchased same, or had Wife and father Wife, brother, or sister, and children Third to wife for life in any case; rest to eldest brother or his issue.

Sister and children of deceased sister, rust equally between sister and nephew (eldest). Sisters and nieces, only, children of deceased sister, rest equally between nicces. Wife, mother, nephews, and nieces . . Third to wife for life; rest to nephew (eldest), or nieces, if brother left no son Wife, mother, brother, sisters, and Third to wife for life in any case; rest to eldest brother, nieces (children of deceased brothers Rost to nieces, equally, if children of elder brother deceased. and sisters) No wife or child or issue of a deceased 1.meal ancestor paternal, males of whole blood first. Children by one or more wives, and All to eldest son, or his issue, the issue of deceased children Daughters equally, if no son. Mother, but no wife, child, or issue All to mother in default of lineal ancestors on the father's side or issue of a child, father, brother, such ancestors, nephew, or niece, or more distant descendants of father Mother, and brothers and sisters . . . All to eldest brother. Mother and sisters All to sisters. Father, and brothers and sisters . . . All to father. Child and grandchild by deceased Governed by precedence indicated in paragraph "Rest to eldest son or child his issue," under head "Wife and child," &c. Brother and grandfather All to brother. Brother's grandson, and brother or All to great-nephew, if eldest brother's grandson sister's daughter. All to brother's daughter, if child of eldest brother. Brother and two aunts Brother, all. Brother and wife Third to wife for life; rest to brother. Grandfather (no nearer) All to grandfather. Father's father, and mother's mother. All to father's father. Grandmother and uncle, or aunt on All to uncle or aunt. father's side (no nearer) Uncle, and deceased uncle's child . . Uncle, unless deceased uncle was elder brother, when his child takes all, Uncle by mother's side, and deceased Child of deceased uncle on father's side, or (if none) child of deceased uncle or aunt's child aunt on father's side. Two aunts, nephew, and niece, chil- Nephew. dren of deceased brother Uncle or aunt's children, and brother's Eldest brother's grandson; if no grandson, but granddaughters only then grandchildren through a son the latter between them equally. Nephew by brother, and nephew by Nephew by brother. Nephew by deceased brother, and All to eldest nephew, son of deceased brother, nephews and nieces by deceased sister

AFFIDAVIT, or statutory declaration

STAMPS, TAXES, DEATH DUTIES, &c.

NOTE.—The items marked with an * are varied by the Finance Act 1909-10, for particulars of which see the List of New Duties below.

AFFIDAVIT, or statutory declaration	50	2	6
AGREEMENT or Memorandum of Agree-		۰	6
ment, under hand, not otherwise charged APPRAISEMENT or VALUATION of any	0	٥	U
estate or effects where the amount of the			
appraisement shall not exceed £5	٥	0	3
Not exceeding £10	0	0	3
20	٥	I	٥
30	0	1	6
40	٥	2	6
100	0	5	ö
200		10	ŏ
eno.	ō	15	õ
Exceeding £300	I	0	٥
APPRENTICESHIP INDENTURES	0	2	6
ARMORIAL BEARINGS (Great Britain)	1	I	•
If used on any carriage BILLS OF EXCHANGE, for any amount,	2	۶	0
BILLS OF EXCHANGE, for any amount,	۰	٥	
payable on demand	٠	٠	•
and also			
PROMISSORY NOTES: Not exceeding £5	0	0	1
Exceeding £5, and not exceeding £10.	0	0	2
,, 10 ,, 25.	0	۰	3
., 25 ,, 50.	0	0	
" 50 " 75 · 100 ·	0	Ŷ	9
Every Crop and also for any fractional	۰	•	٠
Every £100, and also for any fractional part of £100, of such amount.	۰	1	٥
CERTIFICATEOf goods, etc., being duly	_	-	-
entered inwards, for drawback	0	4	0
Of birth, marriage, death, or bunal (certified		-	
CONVEYANCE, where the purchase money	٥	٥	ĸ
*CONVEYANCE, where the purchase money	_	_	,
shall not exceed £5	0	0	6
	ö	,	ć
	ö	2	0
	ŏ	2	ĕ
For every additional £25 up to £300. If exceeding £300, then for every £50. Of any kind not otherwise charged *CONVEYANCE OF TRANSFIR.*	ŏ	3	ŏ
If exceeding £300, then for every £50	o	5	0
Of any kind not otherwise charged	O	10	0
*CONVEYANCE OF TRANSFIR :-			
Of Bank of England Stock	0	7	9
for payment of any sum to bearer or order,			
on demand	٥	0	
LIMITED LIABILITY COMPANIES, on every	•	•	-
	٥	5	o
MARRIAGE LICENCE (Special), England and		-	
reidid	5	0	2
Not Special	0	10	0
PASSPORT	0	0	٥
-			
VARIOUS EXCISE LICENCES AND DE	17	117	•
_		• •	٥.
CARRIAGES, ANNUAL LICENCE (Great			
Britain) — For every carriage with four or more wheels.			
drawn by two or more horses, or drawn			
drawn by two or more horses, or drawn or propelled by mechanical power	2	2	o
	-	_	-
drawn by one horse	I	1	0
Por every carriage with less than four wheels			
(including motor bicycles and tricycles) For every hackney carnage (including	0	15	e
For every hackney carnage (including	۰		0
motors used as such)	0		6
(ireland), one doc	ŏ	7	6
Every additional dog (Ireland)	ō	2	ō
[Dogs kept by blind persons for guidance,			
Dogs of any kind (Great Britain) (Island), one dog (Island) (Islan			4
dogs under six months old, are exempt.]			
Tule arend before November - to series			
July 3r and before No ember z, to expire an July 2r following	3	۰	٥
anguly and onlying the second	•	-	-

	£	S.	d.
After July 31, expire October 31	2	•	0
After October 31, expire July 31	2	0	۰
Gamekeepers (Great Britain)	2	0	٥
Deputation of (Stamp Duty)	0	TO	•
Game Dealer's Licence (U.K.)	2	-0	ŏ
Gun or Pistol Licence. (This is rigidly enforced	-	-	_
even for carrying a revolver, wherever			
possible: volunteers and holders of game			
dicences personally exempt, but not their			
	_		
servants.)	0	ŹΟ	•
House Agents letting furnished houses above			
Medicine (Patent) Dealers (Great Britain)-	2	0	0
Medicine (Patent) Dealers (Great Britain)-			
for each shop	۰	- 4	۰
Pawnbrokers	7	IO	•
Pedlars, Police Licence	à	•	۰
Servants, Annual Licence for every male	-	3	-
servant in Great Britain	•	76	c
Tea, Customs duty per lb	×	-3	•
roa, customs duty per in	۰	٠	3
NEW DUTIES IMPOSED BY THE FIN	ı A.	NC	E
CONTRACT NOTES, for the sale or purchase of	vf e	toc	b.
and marketable securities. New Scale of	Ö	***	
Duties, according to the value of the stoc	ĸ,	et/	•

Junus, according to the value of the stock, etc.; f5 to fitco, 6d.; over fixou pu to fx00. It ofx00. Its, over fx500 up to fx00. Its over fx500 up to fx1,000. Its over fx500 up to fx500. St.; over fx500 up to fx500. 6s.; and so on [2s. extra for each additional fx1,000 up to a maximum of fx1, where the value exceeds fx0000.

Continuation Notes to be chargeable on one only

of the two transactions embraced.

Option Contract Notes to be chargeable with half the above rates only, unless the option is a double

Contract Note following a duly stamped option centract note to be releved from half the duty. CONVEY ANCES or TRANSFERS on sale of any property; existing duties (war scale in Table above) to be doubled, except conveyances or transfers of stocks or marketable securities, except also those in

which the consideration does not exceed £500. Conveyances by was of reft inter vivos to be charged as conveyances on sale. Exceptions for marriage settlement, and certain gifts of property for preservation of open spaces, and for conveyances

to appoint new trustees, etc.
ESTATE DUTY: Increased rates, in the case of persons dying on or after April 30, 1909:-

Principa							Principal vi	alı	16				Rate
of Es	t.	ite	:			per	of Estat	e					prr
excee	dı	n	Z		•	ent.	exceedin						
£100			٠.			£ı	£100,000 .	•		٠			£9
500						2	150,000.						10
1,000					٠	3	200,000 .		•	٠		٠	11
5,000						4	400,000 .				٠	٠	13
10,000						5	600,000 .				•		13
20,000				٠	٠	6	800,000 .				•		14
40,000						7	1,000,000 .		•	•			15
70,000						8 .							-

Settlement Estate Duty, to be increased from £1

Selliement Estate Dray, to be increased from Actor for per cent.

Gift made by deceased during his life to be charged, unless made more than three years before death; gifts made for public or charitable purposes, or in consideration of marriage, or as part of decased's reasonable normal expenditure, excepted. Gifts of less than £100 in value or amount also

Cotts of less than 5,100 in Value or amount as excepted. Payment of Estate or Succession Duties man, by agreement with the Commissioners, be made, wholly or in part, in the form of real or leave-holly property comprised in the extate. NCOME TAX: Rate raised from 15. ad. to 15. 3d. it the £ by the Budget of 1914. On Nov. 17, 1914.

to meet the vast expenditure on the War, the income tax was doubled, although for 1914 the increased amount was only to be collected in respect of one-third of the income. Thus for 1914 the income tax was to be levied at the rate of is. 8d.; viz., is. in respect of earned income on the ninepenny class, and 1s. 8d. on the rest; in 1915 at the rate of 1s. 6d. and 2s. 6d; and the same applies to the super-tax.

Super Tax, 6d. in the £, imposed on persons whose total incomes exceed £5,000, but the first £3,000 income not to be charged.

£3,000 income not to be charged.

**Allowence for Children may be claimed by persons whose total incomes do not exceed £500. £50 to be free of tax in respect of each child under of years old.

**Allowence to Inwners of Land and Houses, for average cost of maintenance, repairs, insurance, and management, may be claimed in addition to the present fixed allowance, subject to a limit of one-eighth of the annual value in case of land and one the width in the case of houses. This special allowance floss not apply to houses of annual value exceeding £8. Five years' average to be taken. 68. Five years' average to be taken.

Renaints abroad.—No exemption or other relief

dependent on total income is to be given to persons

not residing in the United Kingdom.

Reseptions: Present or former servants of the Crown, missionaries, servants of native States under British protection, residents in the Channel Islands or the Isle of Man, and persons residing abroad for their health.

(L.) INCREMENT VALUE DUTY: payable on the occasion (a) of any transfer or sale of land or any interest therein, (b) of any lease for more than 12 years, (c) of the land, or interest in it, passing on death. (d) In the case of Corporations, in addition to (a) and (b), and in place of (c), the duty is payable in

(e) and (b), and in place of (c), the duty is payable in 1914 and every 15 years thereafter, acts of duty [payable as a stamp duty by (c) the seller, (b) the lessor, (c) the deceased's estate, or (d) the corporation]: Li for every £5 of "increment value," i.e., the increase in the value of the stepart from the value of buildings, etc., thereonsince April 30, 1900, or since the last payment of duty. Exemptions, etc.—Agricultural land, while it has no higher value than for agricultural purposes only.—Small residences occupied by the owner, or holder of lease of 50 years, where annual value does not exceed £40 in London, £46 in towns of 50,000 population, and £76 elsewhere.—Small agricultural holdings, where land and dwelling do not exceed £50 annual value, occupied and cultivated by the owner, and not excoosding 50 acres (of average value not excoosding 50 acr value, occupied and cultivated by the owner, and not excoeding 5.75 an acre).—Recreation grounds owned by corporate and other bodies, without view of profit, not to be liable to the periodical charge (d).—Flats (transfer, lease, etc., of separate dwelling).—Ten per gent, of increment allowed free on first and on any subsequent occasion, but such allowances not to appare to more than a few cent, in any period of five subsequent occasion, but such allowances not to amount to more than 2s few cent. in any period of five years.—Allowance is to be made where Reversion Duty has been paid for the same benefit or increment.—Minerals which were the subject of a mining lease or were being worked on April 30, 1909.—Minerals not so exempt are subject to a special basis of charge to Increment Value Duty, as an annual duty. duty.

(II.) REVERSION DUTY: payable by the lessor on the determination of a lease.

Rate of Duty: Li for every Lio of the value of the benefit accruing to the lessor.

Exampliants, etc.—Reversions purchased before April 30, 2009, under leases which determine within 40 years of purchase.—Leases of agricultural land.—Leases the original term of which did not exceed 22 Leases the original term of which did not exceed ay years.—Allowance to be made where fresh lease is granted before expiration of original lease, at per cess, of duty for each inexpired year, up to 50 per cess, of whole duty.—Allowance is to be made where the period of whole duty.—Allowance is to be made where the came benefit or increment.—Mining leases not to be charged. charged.

(III.) UNDEVELOPED LAND DUTY: payable by the owner (including a lessee for a term of fifty years or more) of any land which has not been developed by the erection of dwelling-houses or buildings for the purpose of any trade, &c., other than agriculture but including glasshouses or greenhouses as trade buildings), or is not otherwise used bend-fide for any trade, &c., other than agriculture.

Rate of Duty: One halfpenny annually for every for of the "site value," i.e., the market value of the fee simple of the land if divested of buildings, timber, &c., and less the value of any minerals.

timber, &c., and less the value of any minerals.

Exemptions, etc.—Land the site value of which does not exceed £50 an acre.—Agricultural land, except on such part of the site value as exceeds its agricultural value.—Parks and spaces open to the public as of right, or to which the public are silowed reasonable access.—Recreation grounds, used as such under agreements for not less than 5 years.—Land not exceeding 1 acre occupied with a dwelling-house, up to 5 acres when site value of the whole does not exceed so times its annual value.—Agricultural land held under an existing agreement, not chargeable until agreement terminates.—Agricultural land occupied and cultivated by the owner, if all land owned by him does not exceed £50 in value. Allowance is to be made where Increment Value Duty has been pald in respect of undeveloped land.

V.) MINERAL RIGHTS, DUTY: payable in respect

(IV.) MINERAL RIGHTS, DUTY: payable in respect of the rental value of all rights to work minerals and of all mineral wayleaves.

Rate of Duty [payable by the proprietor where he works the minerals, or, in any other case, by the immediate lessor of the working lessee]: 1s. od. annually for each £1 of rental value.

annually for each &I of rental value.

Exemptions, etc.—Common clay, common brick clay, common brick carth, sand, chalk, immestone and gravel not to be charged. Reversion Duty is not to be charged on the determination, nor increment Duty on the grant, of a mining lease.—Minerals which were the subject of a mining lease or were being worked an April 20, 1909, are exempt from Increment Value Duty, and minerals not so execupt are to be charged to that Duty on a special basis in the form of an annual duty.

LEASES: the existing Stamp Dutles (vide scale in Table) to be doubled, except those which are charged with the fixed duty of rd.

LEGACY AND SUCCESSION DUTIES: The existing duties (vide Table) are thus affected:—

The 1 per cent. duty, which was abolished in most cases, is to be reimposed and extended to husbands and wives, as well as descendants and ancesters. **Exceptions: — Exates not exceeding \$15,000.—
Listes not exceeding \$15,000.\$
Legacies and successions of less than \$1,000 (\$2,000) in the case of widow or child of deceased), whatever

may be value of whole extate.

The 3 per cent, duty (brothers and sisters and their descendants) raised to 5per cent.

The 5 per cent, and 6 per cent, duties (more distant relatives) to 7per cent.

MARKETABLE SECURITIES, transferable by de-livery: Stamp Duties to be doubled, except as regards Colonial Government and certain Colonial Municipal Securities

The classes affected are :- (1) Bearer Securities The classes affected are:— (1) Bearer Securities dated or signed on or before August 6, 1885, will be charged double the duty on a mortgage.—(2) Bearer Securities dated, signed, or offered for subscription after August 6, 1885, 25, for every £10 or fraction.—(3) Bearer Securities given in substitution for the securities duly stamped, 15, for every £20 or fraction.—(4) Foreign or Colonial (except Colonial Government) Bearer Securities, on negotiation in the U.K., 25 for every £20 of fraction.

ss for every £0 of fraction.

SHARE WARRANT AND STOCK CERTIFICATE TO BEARER of any Foreign or Colonial Company to be charged as. for every £10 of fraction.

For other EXCISE DUTIES AND LICENCES administered by the Board of Customs and Excise, see p. 476.

POSTAL INFORMATION

INLAND POSTAGE.

LETTERS.

When prepaid, not exceeding 4 oz. 1d., and for every additional 2 oz., id.

Letters not prepaid are charged double postage on delivery; if insufficiently prepaid, double the deficiency. Sender legally liable for the charges. No letter, except to or from a Government office, may exceed 24 m. in length, 12 m. in width, and 12 in. in death.

The charge for redirection of letters has been abolished.

POSTAGE STAMPS

Are now issued for the following amounts:-id., rd.,

Envelopes, in two sizes, bearing embossed half-penny postage stamps, and in two sizes embossed with penny stamps, are procurable at the Post Offices, singly or in packets, at prices slightly above the face value of the stamps they carry.

LETTER CARDS.

Letter cards bearing 1d, stamp are sold at 1d. each; 1s, a packet of 12; 10s, a packet of 120.

POST CARDS.

Post cards (stout, 4\formall in. X 3\formall in), bearing a \formall d. impressed stamp, available in the United Kungdom only, are sold at \formall d. each; \(2\text{ for 14d}, \for 3\text{ for 14d}, \for 3\text{ for 24d}, \for 5\text{ for 14d}, \for 5\text{ for 14d}, \for 5\text{ for 24d}, \for 5\text{ for 3\text{ for 14d}, \for 5\text{ for 24d}, \for 5\text{ for 5\text{ fot 10}, \for 5\text{ for 16d}, \for 16d}, \for 6\text{ for 5\text{ fot 10}, \for 12\text{ fot 10}, \for 12\text

half, ad, each,

half, ad, each,

Private post cards, pictorial or plain, bearing halfpenny adhesive stamps may be used. The maximum
size to be about that of the officially issued post card,
and the minimum size allowable 4 in. long by 2f in.
wide; moreover the cards must not be folded. Nothing
may be written or printed on the address side which is
likely to embarrass officers of the Post Office in dealing
with the packet. The Post Office does not object to
the left-hand half of picture post cards being used for
writing upon if this regulation be regarded; and it is
now permissible to attach, besides a small address
label, to a post card, within the size limits, a gummel
label, not exceeding 2 in. in length by § in. in width,
bearing the name and address of the sender, and
photographs on very thin paper, provided that they

bearing the name and address of the sender, and photographs on very thin paper, provided that they are completely adherent, either on the back of the card or on the lett-hand half of the address said-these regulations, are applied to post cards of all kinds, and, moreover, single postcards of private manu-facture addressed to places abroad are no longer taxed in the British Post Office on account of the omission of the title " Post Card."

REGISTERED NEWSPAPERS

On each registered newspaper—that is, a periodical publication which has been registered at the General Post Office for transmission as such—whether posted singly or in a packet, the postage when prepaid is jd.; but a packet containing two or more registered newspaper, is not chargeable with a higher rate of postage than would be chargeable on a halfpenny packet or a letter of the same rate.

No newspaper and no cover of a newspaper may bear anything (not being part of the newspaper) except the names and addresses of the seinder and the addressee, a request for return in case of non-delivery, the title of the newspaper, the words, "With Compli-ments," and a reference to any part of the newspaper to which the attention of the addressee is directed.

Newspaper wrappers bearing the halfpenny stamp to cover mland postage are sold at the following prices:—1, 41: 2, 14: 1, 3, 14: 1, 4, 44: 1, 5 34: 6, 3jd.; 7, 4d,; and so on at the rate of 4d. for every complete 7; 5.8 8d, per packet of 120.

INSURANCE STAMPS. Health Insurance stamps of the following denominations are on sale at the various post offices:—xd., xdd., 2d., 2d., 2d., 3d., 4d., 4d., 5d., 5d., 6d., 7d., rs., 18. 2d. Unemployed Insurance stamps, 2d., 4d., and 5d., also

on sale. Health and Unemployment Insurance stamps are available only for payment of contributions under the Act, and not for general postage purposes.

HALFPENNY PACKET POST.

This has taken the place of the old Book Post, save in so far as the development of the Parcel Post and the in so far as the development of the Farcel Post and the reduction of charges on bulky packets has otherwise facilitated the transmission of printed matter by ordinary post. By the Halfpenny Packet Post printed matter or written matter not in the nature of a letter, and not exceeding 202, in weight, is carried. For the elaborate regulations governing the Packet Post see the Post Office Guide.

POST RESTANTE.

In London there is a Poste Restante at the General Post Office, and Branch Offices, where letters or parcels addressed "to be called for" can be obtained between the hours of 8 .m. and 8 p.m. In the provinces the Post Restante, as a rule, is at the Head Post Offices only.

Letters or parcels intended to be "called for" should have the words "Post Restante" included in

the address.

Letters or parcels addressed "Post Restante" to mittals or fictitious names are not rotained, but at once sent back to the writers when practicable.

Letters, etc., addressed to a London Post Office are retained—if from abroad, two months; from the provinces, one month; and from London, a fortnight; to a provincial Post Office to be called for are retained for one month if from the U.K., if from abroad, two months. If not called for by the end of that time they are sent to the Returned Letter Office for disposal. But if a letter be addressed to a seasont twom for a person letter be addressed to a seaport town for a person expected to arrive, it is kept for two months.

REDIRECTION.

Persons who wish their correspondence to be officially redirected should fill up and sign a Notice of Removal. Printed forms can be obtained at any District or Branch Printed forms can be obtained at any District or Branch Office, or from the postman on the walk. A separate notice should be filled up for parcels. Redirection for the first year after removal entails no charge; for the second and third years a fee of 1s. a year; and 5s. a year thereafter is charged.

Should a communication be received in the absence

of the addressee, it may be redirected and reposted, to the same addressee, elsewhere, not later than the day after delivery, without payment of further postage.

RAILWAY LETTERS.

Single Lefters not exceeding 4 oz. in weight, and, not containing anything which in the ordinary course should be registered, can be sent by most of the principal Railways, for immediate delivery, at an increased for dx. in addition to the ordinary postage. These

letters will be forwarded by the next available train for delivery by the postman at destination.

EXPRESS LETTERS.

Letters may be expressed for humediate delivery (from any Telegraph delivery office) at a charge of adper letter per mile, during the hours of opening for Telegraph business at the offices. On packets over z h. weight, ad. extra is charged. See Post Office Guide for full details of this service.

REGISTRATION OF LETTERS, PACKETS, OR NEWSPAPERS.

Fee 2d., which, with the postage, must be prepaid, and a receipt obtained at the office where it is posted. Under certain circumstances, explained at length in the Post Office Guide, the Postmaster-General will make good the loss of a registered letter, etc., to the make good the loss of a registered letter, etc., to the value of £5 without extra (ee; subject to the same rules he will grant compensation beyond £5 and up to a limit of £4co upon prepayment of a tee in addition to the postage and the ordinary registration fee of ad.; but if money be sent, it must, to obtain this benefit, be posted in an envelope provided for registered letters by the Post Office, sizes and prices of which are appended including the stamp covering the charges for registration and postage.

F.	5ŧ	in. by	31	in.	٠.		3jd.	each,	or:	12 for	35.	3d.
Ģ.	6	**	эŧ	**	٠,	•	зłd.	••		**	36.	4d.
*	8	50	5	**	} .		3‡d.			••	35.	9 d
K. :	ű	in. by	õ	;;	٠.		4d.	••		••	45.	od.

PREPAYMENT OF POSTAGE IN MONEY.

PREPAYMENT OF POSTAGE IN MONEY.

As a rule, the postage of letters, parcels, newspapers, and book packets can only be prepaid by means of postage stamps; but in London, at the General and offices in Edinburgh, Dublin, and certain large provincial towns, every kind of inland correspondence, other than newspapers, may be, if handed in within fixed hours, prepaid in money, provided the amount paid be in no case less than fix, and that the letters and packets be tied in bundles representing a postage of 5x each, or in the case of exceptionally bulky packets, as 6d each, with the addresses arranged in the same direction. The prepayment, however, cannot be made arrily in money and partly with stamps, and the money must be paid at the time the letters, etc., are handed in at the Post Office. The acceptance of bulk correspondence (including postcards and lailfpenny packets) at thanty small provincial towns, by payment instead of stamp attachment, can be arranged for with the Post Office now by giving timely notice.

PARCEL POST.

PARCEL POST.

Parcels not exceeding 11 lbs. in weight are transmitted by the Inland Parcel Post under the following general conditions :-

The rate of postage, to be prepaid in ordinary postage stamps is for an Inland Postal Parcel of a weight of

Not exceeding														gđ.
90	2	lbs												4d.
99	3	••	•	•			٠	•			•	•	٠	50.
31	5	**				•				٠	•	٠	٠	6d.
20	7	**				٠		٠	•	٠	٠	٠	•	7q.
**	8	••	-		-	٠				٠	٠	٠	٠	Ba.
**	9					٠								9.4
	10	**	٠	٠	٠	•	•	•	٠	-	٠	•	٠	100.
	Ľ	**	٠	٠	٠	•	٠	•	٠	٠	٠	٠	٠	HQ.

The dimensions allowed for an Inland Postal Parcel

postage, compensation for loss is given, provided the regulations have been complied with, as follows:—

Fee.	Limit of Compensation.	F	ee.	Limit of Compensation
2d. 3d. 4d 5d. 6d. 7d. 8d. 9d.	£5	18.	od.	£200
34.		15.	ıd.	220
4d	40	15.	2d.	240
5d	40 60 80	IS.	3d.	260
6d.	80	15.	id.	28 0
7d.	100	15.	gu.	300
8d.	120	IS.	6d.	300 320
od.	140	15.	7d.	410
rod.	100	15.	84.	360
11d.	180	Is.	od.	360 380
		113.	iou.	400

Live bees are allowed to pass by letter or parcel post within the U.K. if sent in suitable cases. Parcels must be handed in at a Post Office, and the postage prepaid.

CASH ON DELIVERY.

A cash on delivery system has been established for trade between the United Kingdom and certain British possessions and Ligyt, in respect of amounts not exceeding £20. For particulars of this system, see Post Office Guide.

POSTAL ORDERS.

175, 175, 6d., 185, 185, 6d., 195, 195, 6d., 205., and 215., it is 14d. Broken amounts may be made up with stamps affixed to the face of the order.

MONEY ORDERS.

Ordinary and Telegraphic.

Money Orders are granted in the United Kingdom at the following rates:-

to the following rates:—
For sums not exceeding framework above frame not exceeding framework from the framework framework from the framework fram зd. 4d. 6d. rod.

No order may contain a fractional part of a penny.
Money may be sent by Telegraph Money Order at
the same rate of poundage as for ordinary Inland
Money Orders, plus supplementary fee of al. and cost
of official Telegram of Advice, the minimum charge
being 6d, Automats of Loc can be wired from and to
any Telegraphic Money Order Office.

POST OFFICE SAVINGS BANKS

No deposit of less than is, is received, nor any pence and not more than foo in one year. No further deposit is allowed when the sum standing in depositor's name an ounts to face, including interest. Interest is allowed at the rate of a per cent (or do, in the fiper annum—that is id. over f. per month. Separate accounts may be opened in the name of wife and children.

INVESTMENTS IN GOVERNMENT STOCKS.

Depositors in Post Office Savings Banks may invest not less than is, or more than foo in any one year ending December just or Soo in all, in Two and Half per Cent. Consolidated Stock (1993); Two and Three-Quarters per Cent. Annutnes (1995); Two and a Half per Cent. Annutnes: Local Loans Three per Cent. Stock; Guaranteed Two and Three-Quarters Stock, and Guaranteed Three per Cent.

LIFE INSURANCE AND ANNUITIES.
The Post Office undertakes the insurance of lives (children between 2 and 4 years old for £5, and persons between 24 and 65 years old from £5 to £100) and granting of Annuitles, immediate or Deferred, from £5 up to £100. For full particular, see Post Office Guide.

FOREIGN AND COLONIAL POSTAL INFORMATION.

RATES OF POSTAGE AND PRINCIPAL REGULATIONS.

THE rate of postage on letters to British Possessions generally, the United States, Egypt, Morocco, and the Malay Peninsula, where there are British Post Office Agencies, is rd. per oz. The charge to all other places abroad is 24d. per oz., and 14 per oz. above. The following is a list of the British Colonies and Dependencies (including Egypt) to all of which the letter postage is rd. per oz.

Aden (including Perim) Afghanistan (extra local postage payable yond the In-frontier) le be-Indian Antigua. Ascension. Australia (including South Australia, West Australia, Victoria, New South Wales,

Queensland, Tasmania, British New Guinea, and Norfolk Island; also New Zealand) Bahamas Bahrein Barbados Basutoland Bechuanaland **Hermudas** British Central Africa British East Africa and Uganda British Gulana British Honduras British New (Papua)
British North Borneo (but not Dutch Borneo) Brunei Canada Cape Colony Cayman Islands

Cook Islands Cyprus Dominica Egypt Ellice Islands Falkland Islands Fanning Island Fiji Islands French India Gambia Gibraltar Gold Coast (irenada

Ceylon

LETTERS must in no case exceed a feet in length, or

LETTERS must in no case exceed 2 feet in length, or 1 foot in width or depth; and the transmission by post of numerous articles, particularly coin, gold, silver, precious stones, jewellery, and dutable commodities (except under regulations as to payment of charges) is prohibited to many. Foreign Countries. POSTCARPS, single, are charged 1d, postage to all British Colonies and to all foreign countries; reply postcards, ad. each. The maximum size limit is \$\frac{1}{2}\$ in, by \$\frac{1}{2}\$ in, 1 and many places abroad object to the transmission of pictorial postcards with correspondence on the left hand half of the address side. For the countries permitting this see Post Office Guides; the British Post Office can give no guarantee that foreign offices will allow the privileges it permits as to attachments to picture or other postcards. PRINTED PAPERS pass through the post to all places abroad at the rate of \$\frac{1}{2}\tau\$, for the first to \$\frac{1}{2}\tau\$, for the first to \$\frac{1}{2}\tau\$, for the first to \$\frac{1}{2}\tau\$, and \$\frac{1}{2}\tau\$, per oz. thereafter. To Foreign Countries in the Postal Union the Size-limit is \$\frac{1}{2}\tau\$ for the first to \$\frac{1}{2}\tau\$, the price of \$\frac{1}{2}\tau\$, for the first to \$\frac{1}{2}\tau\$.

age is in. per oz.

Hawaii (Sandwich Isls.)

Hong Kong and its

Agencies in China (see

Post Office Gwide)

India (British)

Jamaica

Labrador Labuan Lagos Malay States

Multa Mauritius Montserrat Muscat Natal Nevis Newfoundland New Guinea (British but not German) New Zealand

Nigeria, Northern and Southern Norfolk Island Vyasaland

Orange River Colony Papua Rhodesia St. Helena St. Kitts St. Lucia St. Vincent Sandwich Islands Sarawak Seychelles Sierra Leone Somaliland Straits Settlements Tobaga Tonga Tortola Transvaal (including Swaziland) Trinidad Tristan d'Acunha Turk's and Carcos Islands United States

abroad packets may be r feet in length. Rolls in all cases may reach 30 in, in length, and 4 in, in diameter. The maximum weights vary.

Zanzıbar

The maximum weignts vary.

SAMPLES (under regulations given in Post Office Guide) pass at the rate of 1d for the first 4 oz. and id. per 2 oz. thereafter. To Foreign Countries in the Postal Union the maximum allowable size for sample packets is 12 in. by 8 in. by 4 in., or if in rulls 12 in. long by 6 in. in diameter. To all other destinations the maximum size-limits for printing and other prohibitions, customs charges, etc., should be carefully regarded by senders; as also the top-weight regulations at different places.

PRESENTE ATUM for all articles abound is 3d.; profes

REGISTRATION for all articles abroad is ad.; regis-REGISTRATION for all articles abroadt is 2d.; registered articles may secure acknowledgment of delivery on payment of a further fee of 24d. Letter insurance abroad costs 5d, for £12 and 3dd, for every additional £12 to the maximum lunit, which varies; is not uniform, while in many cases there is no insurance service. See Post Office Guide.

FOREIGN AND COLONIAL PARCELS POST.

PARCELS sent to the Colonics and Foreign Countries through the Post Office are subject to the Customs regulations of the country to which they are addressed and to many prohibitions. Declarations have to be made by the sender on forms obtainable at the Post Office. Generally an invoice may be inclosed in the parcel, but not a letter. The weight and dimension limits, and the amount insurable on values, vary considerably. For full particulars see Post Office Guide. The following are the rates of postage on parcels to the more important countries: the more important countries:-

the more important countries:—
Argentina.—3 lb., ss.; 7 lb., ss.; 11 lb., 45.
Australia (by P. and O. or Orient Licer direct, 44
days to Sydney).—1 lb., rs.; and 6d. per lb. for each
additional lb. up to rr lb. By Italy (6 days faster),
r lb. ss.; 6d. for each lb. additional up to rr lb.
Austrla-Hungary (val Germany).—3 lb., rs. 4d; 7 lb.,
rs. 8d.; rr lb., ss.; vid Ostend Jr Flushing, 3 lb.,
rs. 7d.; 7 lb., rs. rd.; rs. lb., ss. 5d.
Barbados.—Up to 3 lb., rs.; up to 7 lb., 2s.; up to

Beignun,--g lb., 28.; ; lb., 28. 4d.; zz lb.,

British Honduras.—Same as Barbados.
Bulgaria.—By Ostend or Flushing, 3 lb., 2s. 6d.;

The strong stron

India (British).—From the Thames (23 days to Bombay, 26 to Calcutta), 3 lb., 18.; 7 lb., 28.; 11 lb., 28. 8d.; 7 lb., 28. 8d.; 7 lb., 28. 8d.; 7 lb., 28. 8d.; 7 lb., 18. 8d.; 7 lb., 18. 8d.; 7 lb., 18. 8d.; 7 lb., 28. 6d.; 28.

11 lb., 25. rod.

11 lb., ss. rod.

Jamaica.—3 lb., rs.; 7 lb. 2s.; rr lb., 3s.

Japan.—3 lb., ss.; 7 lb. 3s.; rr lb., 4s.; (vid Russia)

up to 7 lb., 6s.

Madera.—3 lb., rs. 4d.; 7 lb., rs. 8d.; rr lb., 2s.

Malta.—As Burbados if by P. and O. steamers; if vid Prance and Italy, 2s., 3s., and 4s.

Mexico.—3 lb., rs.; 7 lb., 2s. 6d.; rr lb., 3s. 6d.

Natal.—See S. Africa.

Newfoundland, as Barbados.

Nigeria.—As Barbados. Northern Nigeria at additional charge and addressees; risks.

Norway.—3 lb., rs.; 7 lb., rs. 4d.; rr lb., rs. 7d.

ditional charge and addressees; risks.

Norway.—g lb., rs.; y lb., rs. 4d.; rr lb., rs. 7d.

Russia in Europe.—g lb., rs. rrd.; 7 lb. 2s. 3d.; rr lb.,

s. 7d. (Signith) higher rates are in vogue by alternative

routes to places in Transcaspia and Assatic Russia.)

S. Africa (including Cape Colony, Natal, Orange Free

State, and Transvaal).—For each lb. or fraction thereof

ye to r l b., od. Spain.—3 lb., rs. 6d.; 7 lb., rs. 10d.; rr lb., 2s. 2d.
Spain.—3 lb., rs. 2d; 7 lb., rs. 10d.; rr lb., 2s. 2d.
Sweden.—3 lb., rs. 2d; 7 lb., rs. 7d; 7 lb., s. 7d; 7 lb., rs. rxd; rr lb., 2s. 2d.
Switzerland (by Belgium).—3 lb., rs. 7d; 7 lb., rs. xd.; rr lb., 2s. 2d.
By France, 3 lb., rs. 4d.; 7 lb., 15. 8d.; 11 lb. 25.

Transvaal (and Orange River Colony).—See S. Africa.
Trinidad — As Barbados.

Turkey.—By Liverpool to Constantinople or Smyrna (3 weeks), 3 lb., 24.; 7 lb., 25. 4d.; 2x lb., 15. 8d. Other routes faster, but costlier.

routes faster, but costlier.

United States of America.—For New York City.

Brooklyn, Jersey City, or Hoboken; 3 lb., 1s. 3d.; 7 lb. 2s. 3d.; 1r lb., 3s. 3d. For any other part of the United States; 3 lb., 3s. 6d.; 7 lb., 4s. 6d.; 11 lb. 5s. 6d. By Official Service; 3 lb., 1s. 3d.; 7 lb., 2s. 3d. 11 lb., 3s. 3d.

Venezuela.—3 lb., 2s. 6d.; 7 lb., 3s. 3d.; 11 lb., 4s.

Zanzibar.—As Barbados.

A system is in force by which in many cases the

Zanzour.—As Darbauos.

A system is in force by which in many cases the senders of parcels can pay the Customs duties to which the parcels may be liable in the country of destination; for particulars, see the Past Office Guide.

MONEY ORDERS PAYABLE ABROAD.

Money Orders payable abroad in the British Colonies and most important Foreign Countries are issued at the following rates of poundage:— s. d.

| Solution | Solution

To some Colonies and Foreign Countries sums up to £20 and £40 can be sent by Money Order, at proportionate poundage; and there is Telegraphic Money Order service to a number of places abroac. In many British Possessions overseas, Postal Orders are also issued and paid. See Post Office Guide.

TELEGRAPHIC SERVICE

INLAND.

INLAND.

In inland telegrams addresses are charged. The charge for transmission—66 for the first twelve words, and 4d. for every additional word—includes delivery within three miles of the receiving office, but, if a head office, within the postal delivery area when it extends beyond three miles. Beyond these distances, 3d, per mile is charged. The sender must pay the porterage. Replies up to forty-eight words may be prepald. Repetitions frefunded if the part of the message questioned prova a Post Office errori, half the original cost of transmission, minimum 3d., and 3d. reckoned the smallest fraction. Midisplication of one telegram to more than one person within the same radius or district, ad, each copy and 3d. for each word in the addresses. Late fees: Telegrams may be taken after the usual hours. The charges are is, to 3s, in addition to the telegraphic rate (payable on one telegram only). COUNTING.—Words not forming part of a European language or Latin are counted five letters to a word. Figures count five to one word, enters to a word.

Figures count five to one word, and fractions are counted each figure and one figure for the division between, thus "22]" is five figures or one word. The between, thus ""23," is five figures or one word. The addition of a letter to a figure counts as one word, thus "42A" is two words. A few hyphened words, such as "Newcastle-on-Tyne," "mother-in-law," and "forty-eight," count as one word; but not double names, such as "Smith Jones," which is two words Exceptional names—e.g., "McLean," "O'Connor," and "De la Rue"—are counted as one word. The contractions "don't," "can't," etc., count as one. Each initial is reckoned as one word, but E.C. and other London novial districts as one word for the composition of the cacn initial is reckoned as one word, but E.C. and other London portal districts as one word for the combination: "Durry Lane" and the like count, however, as two words. When words are underlined or placed in parentheses or inverted commas, one ext.a word is charged for. The symbols "c/o," "a/c," ""/," and "6/6" each count as one word. each count as one word.

"66" each count as one word.

REGISTERED ABBREVIATED ADDRESS.— A charge of £1 rs. per year is made for the registration of abbreviated addresses, such as "Colonizers, London." Telegrams addressed to persons, care of such addresses, must be written thus—"Jones, c/o Colonizers, London. CANCELING TELEGRAMS.—The sender may have its telegram cancelled; and if it be cancelled before the commencement of transmission, the sum paid—less a fee of ad, for cancelling—will be returned on application to the secretary at any time within three calendar months. If transmission has been completed,

an official telegram, prepaid by the sender, will be sent to the postmaster at the terminal office. If the official telegram should arrive too late, the sender will be informed that the attempt to cancel his telegram failed,

informed that the attempt to cancel his telegram failed, but the sums paud will not be refunded.

MISCELLANROUS REGULATIONS.— Telegrams may be handed to rural postmen on their way to telegraph offices. If the addressee of a telegram is known to the messenger, the message may be delivered to him by the messenger wherever on the road the messenger may meet him; if the place where they meet is within the free delivery area, no charge is made for porterage; but, if beyond, porterage is charged to the place of meeting at the rate of 3d, per mile or part of a mile, calculated from the delivering office door. office door.

HOURS OF ATTENDANCE.—Week days, 8 A.M. to 8 P.M.; Sundays (England and Ireland), 8 A.M. to 10 A.M.; (Scotland), 9 A.M. to 10 A.M. There are offices in London and large provincial centres open all night, and many which are open to 12 und.night.

FOREIGN.

Telegrams in ordinary language are reckoned by words, each not exceeding fifteen letters for European words, each not exceeding fifteen letters for European telegrams, and ten for extra-European; code words must be selected from English, French, German, Italian, Spanish, Portuguese, Dutch, and Latin dictionanes, and not more than ten letters; cypher telegrams count five figures to a word in European, and three to a word in extra-European telegrams. The address of the receiver must consist of not less than two words and must be paid for. The following are some of the more important stea per word in sec. are some of the more important rates per word; in no case, however, is a less amount than rod, charged for a

case, nowever, is a less amount than tool. charged for a telegram or reply. European.—Austria, 24d.; Belgium, 2d.; Bulgaria, 3d.; Denmark, 24d.; France, 2d.; Germany, 2d.; Gibraltar, 3d.; Greece, 54d.; Holland, 2d.; Italy, 24d.; Malta, 4d.; Norway, 24d.; Portugal, 2d.; Russia, 44d.; Spain, 3d.; Sweden, 24d.; Switzerland, 24d.; Turkey,

60. Extra-Europà.n.—Argentina, 28, 6d, and 28, 9d.; Australia and New Zealand (including New South Wales, Victoria, Westralia, South Australia, Queensland and Tasmania), 28, and 28, 9d.; Brazil, 28, 7d. to 58. (Pernambuco only, 18, 7d.); Canada, 8d. to 28, zd.; Cape Colony, 28, 6d.;

Ceylon, as. (or, viå Turkey, 1s. 11d.); Chile, 2s. 6d. to 2s. 9d.; Chma, 3s. 6d.; Dutch Eax Indies, 3s. 7d.; Egypt, 1s. to 1s. 4d.; India, 2s. (viå Turkey, 2s. 12d.); Japan, 3s. 11d.; Mexico, 1s. 9d. to 2s. 4d.; Nata, 2s. 6d.; Rwewoundland, 1s.; Crange River Colony, 2s. 6d.; Rhodesia, Southern, 2s. 8d.; Rhodesia, Northern, 2s. 11d.; Transvaul Colony, 2s. 6d.; United States, 11d. to 2s. 9d.; West Indies; Barbados, 4s. 9d.; Havana, 1s. 8d.; Jamaica, 3s.; Trinidad, 5s. 1d.; Zanzibar, 2s. 6d.; Zululand, 2s. 6d.

CABLE LETTERS.

CABLE LETTERS.

A system of day and week-end cable letters, whereby letters of from 10 to 50 words can be cabled at very low rates, the messages being accepted at any Telegraph Office in the United Kingdom on the condition that they will not be delivered before the second day after they are received at the Cable Companies' Stations. Thus 20 words can be cabled to Canada or New York for 60.; to California for 100; and various other places on the North American Continent, up to 50 words pro rate. The rates for week-end cable letters, sent on Saturday night and delivered the following Tuesday, are still lower. (See Postal Guide.)

Shore telegram letters between places in the United Kingdom (36 words for 6d.) which can be sent up to midnight and delivered at their destination the next morning's letters is also promised.

MAIL DAYS.

The principal mails for abroad are made up in London as follows:-

Canada.—Every Thursday evening and Wednesday afternoon: Saturday morning and afternoon. United States.—See special detailed table, following. Newfoundland.—Every afternate Friday evening. West Indies.—Every afternate Wednesday and

alternate Saturday.

Australia and New Zealand.—Fvery Friday evening. Austfalia and New Zealand.—Fvery Friday evening.
India.—Every Friday evening.
Clima, Japan and Ceylon.—Fvery Monday, Wednesday, and Friday.
South Africa.—Every Saturday afternoon.
West Africa.—Every Friday evening.
Provincial letters should reach London six hours

before the mails are made up.

AMERICAN MAILS.

Mails for America.							
Days of Salling.	Luie.	Mails close in London.	Mails close in Paris.				
Wed Fri Sat	†N G. Lloyd. White Star †Hamhurg American Cunard	Tues., undn't. Wed., 6 p.m Thurs., undn't Fri., midn't Sat., 2 p.m.	Tuesday Tuesday Thursday Friday. Friday.				

Must be addressed, "Per American Steamer."
Must be addressed, "Per N. G. Lloyd Steamer."
Must be addressed, "Per Hamburg Steamer."

The Mail closes on Wednesday at the General Post Office, St. Martin's-le-Grand, 72d Queenstown, White Star Lmc, at 6 p m.
Late fee of 1d. at

Late fee of ad at 7.15 p m Late fee of ad at 7 30 p.m Late fee of 2d, at Euston Station, where letters may

The Mail closes on Saturday at the General Post Office, St. Martin's-le-Grand, via Queenstown, Cunard Luie, at 2 p.m.

ate fee of id. at a.30 p.m.

Late fee of 2d. at Euston Station, where letters may be sent up to the train leaving, at 4 p.m.

Mails from . 1 merica.

Day of Sailing.	Lme.	Due in London.
Wednesday . Wednesday . Tuursday .	N. G. Lloyd American	Wednesday

The German services are suspended during in war.

DISTINCTIVE MARKS OF ATLANTIC STEAMERS.

Line	Funnel Marks	Lights.	Flags.
Allan	Re l, narrow black band in centre of red, white band under black top.	I hree blue lights in the form of a triangle.	Red, white, and blue, per- pendicular stripes, red pennant above flag.
American	Black, white band near	Blue light forward and aft, and red light on bridge.	White, with blue eagle in
Anchor	Blick	Red and white hights alter- nately.	White swallow tail, red anchor in centre.
Atlantic Transport	Red, black top .	A Roman condle throwing six stars, showing colours green, white, red, green, white, red,	Blue and white stars, American Utnon Jack
Cunard	Red, two narrow black bands, black top.	Blue light and two Roman candles, each throwing six blue stars.	Red, with yellow hon rampant in centre holding globe.
Dominion	Red, white band, red band, black top.	Roman candle throwing six red stars	Red, white diamond and blue ball in centre.
Hamburg-Amerika		A Roman candle. Red, turning to white, turning to blue.	White and blue, with anchor and yellow shield in centre H. A. with black initials P. A. G.
North German Lloyd .	All cream	Two lights, blue, red; one forward, one aft	White, blue key and anchor crossed, oak-leaf wreath in centre.
White Star	Cream, black top .	Twopgreen lights burning simultaneously.	Red swallow tail, with five- point white star in centre.
Wilson Line	Red, black top	Two red lights simultane- ously.	White pennant with red ball.

FOREIGN MONARCHS, PRESIDENTS, ETC.

			Succeeded
Abyssinia, Emperor Menelek II	1889	Japan, Emperor Yoshihito	. 1912
Afghanistan, Ameer Habibullah Khan	1901	Liberia, Pres. D li. Howard	. IQII
Albania, William I	1914	Mexico,	-
Argentina, Pres. Saenz Peña	1010	Monaco, Prince Albert	. 188g
Austria-Hungary, Emperor Francis Joseph	1848	Montenegro, King Nicholas I	. 186o
Bavaria, King Ludwig III	1913	Morocco, Emperor Muley Yusef	. 1912
Belgium, King Albert I	1909	Nicaragua, Pres. Adolfo Diaz	
Bolivia, Pres. Ismael Montes	1913	Norway, King Haakon VII	. 1905
Brazil, Pres. De Wenceslao Braz	1913	Panama, Belisario Porras	. 1012
Bulgaria, Czar Ferdmand I	1887	Paraguay, Pres. Eduardo Schaerer	. 1912
Chile, Pres. Ramon Barros Luce	1010	Persia, Sultan Ahmed Mirza, Shah	. 1912
China, Pres. Yuan Shi-Kai	1012	Peru, Pres. (provisional) Col. Oscar Benavide	
Colombia, Pres Carlos E. Restrepo	1010	Portugal, Pres. Manuel D'Arriàga	
Costa Rica, Pres. Ricardo Junenez		Roumania, King Charles I	. 188т
Cuba, Pres. Mario G, Menocal	1013	Russia, Emperor Nicholas II	. 1894
Denmark, King Christian X	1012	S dvador, Pres. Carlos Melendez	1913
Dominica, Pres. José Bordas	1013	Saxony, King Augustus III	
Ecuador, Pres. Leonidas Plaza	1012	Servia, King Peter I.	
Egypt (Proper), Khedive Abbas 11	1892	Siam, King Vajiravudh	1910
France, Pres. Raymond Poincaré	1013	Spain, King Alfonso XIII	. 1886
Germany, Emperor William II.	1888	Sweden, King Gustavus V	. 1907
Greece, King Constantine I	1013	Switzerland, Pres. Arthur Hoffmann	. 1014
Guatemala, Pres. Dom M. E. Cabrera	1010	Turkish Empire, Sultan Mohamed V	
Haiti, Pres. Michel Orestei	1913	United States, Pres Dr. Woodrow Wilson .	
Holland, Queen Wilhelmina	1890	Uruguay, Pres Don José Battle y Ordonez	. 1911
Honduras, Pres. Francisco Bertrand	1913	Venezuela, Pres. Juan Vicente Gomez	
Italy King Victor Emmanuel III	1900	Wurtemberg, King William II.	1891
	- '		-,-

TABLE FOR ASCERTAINING THE NUMBER OF DAYS FROM ANY ONE DAY IN THE YEAR TO ANY OTHER DAY.

Jan	Feb	Mar.	Aprıl	May	June.	July.	Aug.	Sept	Oct.		·D
t	32	60	91	121	152	182	213	244	274	305 306	335
2	3.3	61	92	122	153	184	214	245	275	306	335 336 337 338 339 341 342 343 344 345 346 348
3	34	62	93	123	354	184	215	240	276	307 308	337
4	35	63 64	94	124	155 156	185	216	247	277	308	338
2 3 4 5	33 34 35 36 37 38 39	64	95 96	125	156	186	217	248	278	309	339
	37	65 66	96	126	157 158	187	318	249	279 \ 280	310	340
8	38	66	97	127 128	158	188	219	250	280	311	341
	39	68 68	97 98 99		159	189	220	251	281	312	342
9	42	68	99	129	160	190	221	252	282	313	343
10	41	69	100	130	161	191	222	≥53	283	314	344
11	42	70	101	131	162	192	223	254	284	315 316	345
12	43	71	102	132	163	193	224	255	285	316	340
13	44	72	103	133	104	194	225	256	286	317 318	347
14	45 46	73 74	104	134	165 166	105	226	257	297	318	348
15 16 17 18	40	74	105	135 136 137 138	100	195	227	258	288	319	349
10	47	75 70	106	130	167 168	197	228	259	269	320	351
17	48	76	107	137	108	198	229	260	290	321	351
	49	77 78	108	138	169	199	230	261	291	322	35
19	50	76	109	139	170	200	231	262	292	323	353
20	SI	79 80	110	140	171	201	232	263	293	324	354
21	52	8z	111	141	172	303	233	264	294	325 320	353 354 355 350
22	53	82	112	142	173	203	234	265	295	320	35
23	54	82	113	143	174	204	235	266	296	327	35
24	55	83 84	314	144	175	205 206	236	267	297	328	35
25 25	53 54 55 56 57 58	24	115	145	176		237	268	298	329	359 360
30	57	85 86	116	146	177	207	238	269	299	330	300
27 28	55	80	117	147	176		239	270	300	331	30
20	59	87 88	118	145	179	209	240	271	301	332	36: 36: 36: 36:
29			119	149	181	210	241	272	302	333 334	30
31 30		89	130	150	101	511	242	273	303	334	30
31		90		151	l .	212	243		304		30

In leap years, one must be added to the number after Feb. 28.

THE NATIONAL INSURANCE ACT. ITS BENEFITS AND PROVISIONS.

The National Insurance Act, which dates its operation from July 15, 1912, as far as regards its contibutory sections—that is, the payment of premium moneys—came into full benefit force on January 15, 1912, except as to disablement benefit, which does not begin until July 15, 1914.

BENEFITS TO THE INSURED.

The benefits now in force are the following :-

The benefits now in force are the following;—
(1) Sick pay—10s, a week for a weeks for a man, and 7s. 6d. a week for a woman.

(2) Medical benefit.
(3) Medical benefit.
(4) Maternity benefit (20s. for each child born).
(5) Sanatorium benefit for consumption cases.

The disablement benefit to come into force on July 15, 1914, will amount 10 s. a week for men and women alike, commencing after 26 weeks from the beginning of the illness and continuing as long as the disablement lasts or until the age of 70. No disablement can accrue until an insured person has contributed for two years, hence July 15, 1914, is the earliest date for two years, hence July 15, 1914, is the earliest date at which any insured person can be entitled to disablement allowance.

WHAT IS REQUIRED OF INSURED PERSONS.

On January 15, 1913, every person falling within the operation of the Insurance Act was presumed to have taken steps to fulfil the conditions of membership, that is, he or she must have made up the necessary 26 weekly contributions, which contributions must have been made by stamps affixed to cards of membership, effected either through the medium of an approved society or through the Post Office. The approved society or through the Post Office. The contributions payable are 7d. per week in the case of men and 6d. in the case of women, the employer being made liable for the payments and authorised to deduct the amount from the remuneration paid.

By January 15, 1913, every person then entitled to medical benefit is supposed to have received a ticket entitling him or her to medical benefit until April 30, 1913. These tickets are issued to members of approved rgra. These tickets are issued to memors or approved societies by the societies themselves, and in the case of Post Office deposit contributors are issued to them the case of the commissioners. direct by the Insurance Commissioners. Where a person has not received a ticket, application must be made either to his or her society or to the Commissioners.

CONTRIBUTIONS BY EMPLOYERS AND EMPLOYED.

The contributions of 7d a week for men and 6d, for women must be seen to by the employer, who himself pays 3d. In each case towards the weekly sum. It is the duty of the employer to fix the stamp of the value of the Joint contribution on the card on each occasion of payment of wages. Contributions are not paid in periods of sickness, nor do they count as arrears during such time; nor are they payable in cases of sammployment, although arrears in the latter case may seem to the part of the part affect the rate of benefit.

ON WHOM INSURANCE IS MADE COMPULSORY.

Practically all workers of either an hetween the ages of 16 and 90, whose wages do not amount to more than £160 a year, come in under the Act. There are special exceptions and exemptions, however, too namerous to be enumerated here, including soldiers, sailors, Government officials, and others.

HOW TO OBTAIN SICK PAY.

Members of approved societies should apply to the local secretary, and a certificate from the doctor must be sent to him. The sick pay of 10s. a week in the case of men and 7s. 6d. in the case of women is payable as from the third day after the illness begins. The insured person may go to or call in any doctor on the local panel list and ask to be treated. On accepting iocal panel int and ask to be treated. On accepting the insured person for treatment the doctor will sign the card, and the person will in future be counted as his patient. Where difficulty of any kind arises, the local Insurance Committee will deal with it. It amounts to this, that within the range of the panels, which in most cases offer an extensive list, there is a wide choice of doctors.

MEDICINE AND SURGICAL APPLIANCES.

When a doctor gives a prescription for an insured person, any chemist who has agreed to come on the Insurance List will make it up without charge, such list being put up in the local post offices. Nor is there anything to pay to the chemist for the medicine; that comes out of the insurance funds. In the same way the insured person is entitled to such surgical appliances as the doctor may advise.

MATERNITY BENEFIT.

Every woman who is herself insured, and the wife of Every woman who is herself insured, and the wire of every insured man, is entitled to a payment of 30s, in respect of each confinement, provided that at least of weekly stamps have been put on the cards before the child is born. If both father and mother are insured under the Act, the mother is entitled to 7s, 6d, a week sickness pay as well as the 30s. This benefit is paid on application to the member's society, or, in the case of admostic constitution, to the local leavest completes. a deposit contributor, to the local Insurance Committee.

SANATORIUM BENEFIT.

Any insured person suffering from consumption can Any insured person sunering from consumption can be treated either in a sanutorium or hospital; or the insured person may call at a dispensity from time to time for treatment, or be treated by a doctor in his or her own home. The local arrangements as to consumptive patients, however, will be under the control of the local Committee, and sufferers will be arranged for by them according to the purpose. for by them according to the provisions existing.

DEPOSIT CONTRIBUTORS.

Deposit contributors must apply to the local Insurance, Commutee when destring to obtain sickness or maternity benefits, special forms being provided for this purpose. It must be borne in mind that deposit contributors can only claim benefit according to what the stamps on their cards entitle them; whereas those connected with approved societies have all the funds of their particular society against which to draw.

DISPUTES.

In the event of difficulty or dispute arising, the anter has to be settled according to the rules which apply by action in the county court. Where an insured person is unable to obtain his or her benefit by Peason of the employer having neglected to affix the proper stamps, the employer may be proceeded against for recovery of the medical benefit which she insured person would otherwise receive.

ENGLISH MONEY AND ITS FOREIGN EQUIVALENTS.

Denomina- tions.	Sta	ited ites luc.	Be Sv Italia Gr	ench, lgian, viss, in, and reek ilue,	German Value.		
	Dols.	Cents.	Frs.	Cents.	Mks.	Pfngs.	
Sovereign .	4	84	25	15	20	õ	
Half-			-	•	l		
Sovereign	2	42	12	57 24	10	•	
Crown (55.) .		21	6	24	5	n	
Four-Shilling			l		١ ،		
piece	٥	96 60	1 5	3	4 -	0	
Half-Crown .	٥	60	3 2	13	2	50	
Florin	0	48		5x	9	0	
Shilling	0	24	I I	25 63	_ I	0	
Sixpence	0	12	0	63	0	50	
Threepence	0	6	0	31	0	² 5	
Penny	0	2	0	IO	0	8	
Halfpenny .	0	I.	0	5 21	0	4	
Farthing	0	O.	0	2	0	2	

French, Swiss, and Belgian frants, Greek drachma, and Italian lire possess the same value, and circulate within the countries named other than their own; with the exception of the Italian coin, which will not pass readily either in France, Switzerland, or Belgium. Spanish and Papai Silver is below par, though often found.

The above values are, of course, nominal, and a slight deviation from them in the way of money-changers' profit is to be expected.

FRENCH MONEY AND ITS

																£	8.	đ.
100	Francs															7	0	0
50	**															3	٥	•
20		•														0	16	0
10	••	٠											٠			۰	8	0
5	••															۰	4	0
2		-														0	I	71
1	_ ** .					٠	•					٠				0	•	10
50	Centime	s	٠	•	•			•		٠		•		•		0	0	5
20	**		٠		•	•	•		٠	•	•		٠			0	0	3
10	••		•	•	•	•	•	٠	٠	•	٠	٠	٠	•	•	0	0	2
5	••		٠	٠	•	•	•	٠	•	•	٠	•	-	•	٠	•	0	여

DISCOUNT TABLE.

Per	In the £	Per		In the £
cent.	s. d.	cent.		s. d.
2	= 0 6	20	 	= 4 0
3	= 0 7'2	25	 	= 5 0
4	= 0 9.6	30	 	= 6 0
5	= 10	40	 	= 8 0
8	= 1 2	50	 	= 10 0
78	== 1 6	75	 	= 15 0
10	= 2 0	75 : : 80 : :	 	= 16 0
15	= 3 0			

Intermediate Rates are obtained by addition.

INTEREST TABLE

For £100 at 21, 3, 31, 4, 41, and 5 per cent.

Days.	si per cent.	3 per cent.	31 per cent.	4 per cent.	41 per (cent.	5 per cent.
1 2 3 4 5 6 6 7 8 9 9 10 12 0 12 0 12 0 15 0 15 0 15 0 15 0 1	s. 0 0 0 0 9 1 1 2 4 2 5 1 5 1 2 7 1 4 4 5 5 2 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 101 11 6 13 11 14 91 16 51	s. d. 2466 9 114 668 1 10 998 76 54 32 0 0 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5. 0 5 77 1 1 766 9 1 1 1 3 4 4 5 6 6 8 10 11 13 14 15 15 17 19 1 11 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8. 0 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	s. d. 38 9 9 9 1 1 1 7 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1

The amount of interest accruing in connection wiffin other sums at any of these rates, and for any number of days, can be reckoned by very simple calcu-

WAGES TABLE

Per Year.	Per Quarter	Per Month.	Per Week.	Per Day.			
£	£ s. d.	£ s. d.	£ s. d.	£ s. d.			
2	0 10 0		0 0 9	0 0 1			
2	0 15 0	0 5 0	0 1 1	0 0 2			
4	100	0 3 4 0 5 0 0 8	0 1 6	0 0 25			
3 4 5 6	150	0 8 4	0 1 11	0 0 31			
ě	1 10 0	0 10 0	0 2 3	004			
7	I 15 0	0 II 8	0 2 8	0 0 4			
7	200	0 13 4		0 0 4 0 0 4 0 0 5			
9	250	0 15 0	0 3 0 0 3 5 0 3 10 0 4 2	006			
	2 10 0	0 16 8	0 3 10	0 0 0			
11	2 15 0	0 18 4	0 4 2	0 0 7			
12	300	100	0 4 75	0 0 8			
13	3 5 0	118	0 4 112	0 0 8			
14	3 10 0	I 3 4	0 5 4 8 0 5 9 0 6 1 1	0 0 94			
15 16	3 15 0	I 5 0 I 6 8	0 5 9	0 0 9			
16	400		0 6 1				
17 18	450	z 8 4	0 6 0	0 0 113			
18	4 10 0	1 10 0		0 0 114			
19	4 15 0	1 11 8	0 7 3 0 7 8 0 8 5	0 1 0			
20	500	1 13 4	0 7 8	0 I I			
22	5 10 0	1 16 B	0 8 5	0 I 2			
24		2 0 0	0 9 2	0 1 4			
25 28	650	2 1 8	0 9 7	0 I 4			
20		2 10 0	0 10 91	0 1 7			
30			0 11 07	0 1 11			
30 35 40	8 15 0		0 13 5	0 2 2			
45		3 15 0	0 15 4	0 2 5			
50	11 5	3 6 8 3 15 0 4 3 4	0 15 4 0 17 3 0 19 2	0 2 9			
J-		7 3 4	V -9 -4	,			

Variant annual rates of salary may be worked out to their quarterly or other proportions with ease by employment of the figures here tabulated.

BRITISH WEIGHTS AND MEASURES.

Since January 1, 1826 there has been comp	ulsory uniformity of Weights and Measures.
AVOIR DUPOIS WEIGHT. 27 11.32 grains.	MISCELLANEOUS LIQUID MEASURES. The Imperial Standard Gailon comprises to Imperial Standard Pounds weight of distilled water weighed in sir, with water and air at the temperature of 6s deg. Fahrenheit, and the barouseter at 30 inches. The measure of an Imperial Standard Gailon is 277 284 cubic meches.
TROY WEIGHT. 4 grains	Inogshead of Claret
any of the standards of 18, 15, 12, or 9 carats fine gold in every pound troy. The relative value of the carat of gold is 10 penny weights. APOTHECARIES' WEIGHT. so grains make 1 scruple. 3 scruples 1 drachus. The pound and ounce are the same as in troy weight. Medicines are compounded by this weight, but drugs are bought and sold by avoirdupoits.	Quarter-cask of Brandy. 28 American barrel of Beer 30 Pipe or butt 126 126 127 128
are bought and sold by avoirdupois. APOTHECARIES' FLUID MEASURE. 60 minims make r drachm. 60 drops make r drachm. 8 drachms 1 tounce. 4 drms. 1 tablesp'ful. 90 ounces 1 punt. 2 ozs. 1 wine-gis'ful. 8 pints 1 rallon. 3 ozs. 1 teacupful. There are 4371 grains in a fluid ounce.	3 barleycorns
DRY MEASURE.	6.080 Feet = 1'13 Mile Statute. Laque = 3 Miles. Degree = 60 Geographical, or 60 121 Statute Miles. Inch (In.) = 72 Points, or 12 Lines. Nail (1:16) = 24 Inches. Palni = 3 Inches. Hand = 74 Inches. Link = 702 Inches. Ouarter (or a Span) = 0 Inches. Foot = 12 Inches. Cubit = 18 Inches. Yard = 30 Inches. Yard = 30 Inches. Yard = 50 Inches. Pace, Military = 1 Feet 6 Inches. Pace, Geometrical = 5 Feet. Verbox
### WINE AND SPIRIT MEASURE. ### gills	Rod, Pote, or Perch. = 55 Yards. Chain (roo Links). = 22 Yards (4 Poles). Cable's Length . = 100 Fathoms, 600 Feet. Furlong . = 40 Rods, 220 Yards. Mile. = 8 Furlongs, 80 Chams, 300 Rods, 1,760 Yards, 5,280 Feet, 63,360 Inches. The old Scottish Mile was 5,520 feet; ten Scots Miles being about equal to 17 Statute Miles. Eleven Irish Miles were equal to 14 Statute Miles.
A.L., BEER, AND PORTER MEASURE. 4 gills make I pint = pt 2 pints 1 quart = qt. 4 quarts 1 gallon = gal. 9 gallonis 1 firkin = kild. 2 firkins 1 kilderkin = kild. 2 kilderkins 1 barrel = bar. 3 kilderkins 1 hogshead = hhd. 3 togsheads 1 hurt 50 gallonis 1 American barrel = Am. bar.	SQUARE, SURFACE, OR LAND MEASURE. The quare Foot contains 144 square inches. Yard = 9 feet = 1.000 inches. Rod, Pole, or Perch = 3rd yards = 27rd feet. Chain = 16 rods = 484 yards = 4.356 feet, Rood = 40 rods = 1.210 yards = 10.350 feet. Acre = 4 rods = 150 rods = 4.840 yards. Yard of Land = 30 acres = 100 rods. Hide = 100 acres = 400 rods = 6.400 chains = 103.400 rods, poles, 67 perches, or 3.097.600 square yards.

SCOTCH LIQUID MEASURE.

4	gills					make	r mutchkin.
		٠	•	٠	٠	**	z choppin.
	choppins						T mint.

Rood = 40 rods = 1,210 yards = 10,850 feet.

Acre = 4 rods = 160 rods = 4,80 yards.

Yard of Land = 30 acres = 120 roods.

Mile = 640 acres = 2,500 roods = 6,400 chains = 102,400

rods, poles. & perches, or 3,097,500 square yards.

An Acre roughty stated has four equal sides of 69

yards: accurate measurement gives each side 9697;

feet.

The sides of a square half-acro would be 147 581 feet,
and of a square quarter-acre, 104 325 feet.

PEARS' CYCLOPAEDIA.	44
CUBIC OR SOLID MEASURE. Cubic Foot = 1,788 Cubic Inches Cubic Yard = 27 Cubic Feet, 21'033 Bushels. Stack of Wood = 108 Cubic Feet merchandise. Shipping Ton = 40 Cubic Feet of Timber. Ton of Displacement of a Ship = 35 Cubic Feet.	-
MEASURES OF TIME	
acres. sq. yds. 100 centiares, or 0 110 6033 = 1 ARE. 100 ares , 2 280 3236 = 1 hectare. A centiare measures 1100033 sq. yard. Solid Measure (Wood). 10 centisteres, or 37327 = 1 decistere. 10 decisteres , 37317 = 1 stere. A centistere measures for 38 cubic inches. Capacity. The unit for capacity is the litre.	
gals, qts. pints. zo millilitres, or o o o'ory6077 = { r centilitre or zo cub. cent. zo centilitres ,, o o o'x76077 = { r declitre, or zo cub. c. zo declitres ,, o r r/6077 = { r incorp. cent. zo lutres ,, o r r/6077 = { r incorp. cent. zo decalitres ,, o o'ory7 = { r incorp. cent. zo decalitres ,, o o'ory7 = { r incorp. cent. zo hectolitres ,, o o'ory7 = { r incorp. cent. zo hectolitres ,, o'ory7 = { r incorp. cent. zo hectolitres ,, o'ory7 e a pint, or o'oooozy5 of a bushed.	
Weight. The unit for weight is the gram. 10 milligrammes, or o o o o o o o o o o o o o o o o o o	1
The chief units as generally accepted by electricians are as follows: Voit Electromotive force is equal to about \$\text{ev}\$ be reent of that given by one Daniell's battery cell. Cham Resistance equals the resistance offered to the passage of a current of electricity by a thread of mercury roof cm. long and 1 mm. cross section at the temperature of melting ice.	

Megohin . . . Equals one million ohms.

Ampere . . . Current equals the current 1 volt will drive through 1 ohm. Quantity equals I sampere flowing for I second of time. Coulomb Microfarad . . . Capacity equals 'coccor coulomb at an hour. Kilowatt equals one Board of Trade Unit. One Board of Trade Unit will keep a 16-candle incandescent lamp alight for about 16 hours.
746 Watts equals 1 horse-power.

HAY AND STRAW MEASURE.

Truss of Straw, 36 lbs. Truss of Old Hay, 56 lbs. Truss of New Hay (to September 1st), 60 lbs. Load, 36 Trusses—Straw, 11 cwt. 2 qrs. 8 lbs.; Old Hay, 18 cwt.; New Hay, 19 cwt. 1 qr. 4 lbs.

WOOL WEIGHT.

Clove, cl. = 7 lbs. Clove, et. = 7 ins.
Stone, st. = 7 Cloves t4 lbs.
Tod, td. = 2 Stones 1 qr.
Wey, wp. = 64 Tod; town: 2 qrs. 14 lbs.
Pack, \$\psi\$. = 240 lbs.
Sack, \$\psi\$. = 2 Weys 13 qrs.
Last, \$\psi\$. = 12 Sacks 39 cwt.

WORSTED YARN MEASURE.

Wrap, 80 yards; Hank, 560 yards = 7 Wraps. Counts are reckoned according to the number of hanks in a lb.

COTTON WOOL WEIGHT.

Cotton Wool, Bale variable; U.S.A. average 477 lbs.; Egyptian, 719 lbs.; East Indian, 396 lbs.; Brazilian, 220 lbs.

COTTON YARN AND SILK MEASURE.

Thread = 1) yards. Lea, or Skein = 120 n = 120 yards. Hank = 7 Skeins, or Leas.

Spundle = 18 Hanks.

Reels of Cotton vary from 30 to 1,760 yards, but the length must be correctly specified.

FISH MEASURE.

Herrings are sold by the Cran, containing solimperial gallons except on the West Coast, Isle of Maze, which contains 5 long hundreds of 123 each. On the East coast of England they are sold by the Maze, which contains 5 long hundreds of 123 each. On the East coast of England they are sold by the Last, which sontains 13,200 fish. They are counted by the Warp, which is 4. 33 Warps = 1 Long Hundred, 122; 10 Hundred = 1 Thousand, 1,380; 10 Thousand = 1 Last, 13,200.

		F.A							lbs.		drs
r peck loaf									17	6	2
z half peck loaf										II	I
quartern loaf.			٠.		٠				4	5	8
a quartern (or quartern Bakers are	uart	er I	De.C	k) c	ef f	юш	٠.	٠.	. 3	. 8	0
Bakers are	not	and	υwę	d t	0.5	ien	Dī	CRO	Dyt	ne p	eck
or quartern. It (usually called q	IS g	ene	rai	ly s	oia	ın	411). a i	na 2 1	D• 101	rves
(usually called q	uar	ten	ı	ia i	ali	qu	an	CIT	1034	65).	

										_	_	_					
						C	c	A	L	, 1	w	E	IG	Н	T		
14	lbs.																z stone
28	lbs.							,									1 quarter
113	lbs.															,	I CWt.
20	cwt.																r ton r cwt.
1	sack					!											z cwt.
T	large		ac	k													2 CWt.
21	tons.	4	CW	rt.													r barge or keel r ship load
20	keels	. (42	1	OF	18)											z ship load
7	tons		1				_										z room

GENERAL NUMBERS.

1 Cum Arabic

Acres 177 7 - March

	Guil Arabic chest (E. Indies) 6 cwt.
ra articles	Gunpowder barrel
12 dozen	last
12 gross	Honey gallon
so articles	Mace case
averacies I score	Madder cask
5 score	Manuel
6 score r great hundred	Magnesia
	Nutmegs cask 200 lbs.
MISCELLANEOUS WEIGHTS.	Potash barrel 200 lbs.
	Prunes barrel 1 to 3 cwt.
Almonds basket	, puncheon
box (Jordan)	Quicksilver bottle 84 lbs.
Beef , tierce of 38 pieces (Irish) 304 lbs.	Rags bale (Mediterranean) 42 to 5 cwt.
Bristles cask	(Hamburg) s cwt.
Bullion bar rs to so lbs.	Raisins drum (Valencia) 24 lbs.
Camphor box	cask (Malaga) z cwt.
Candles barrel 120 lbs.	hor so the
Cinnamon bale	
Cochineal 70,000 insects	Rice bag (E. Indies) z cwt.
seron	
	Sago bag r cwt.
Cocoa bag r cwt.	Salt bushel 56 lbs.
cask	Soap firkin
Coffee barrel or robin x to x cwt.	barrel 256 lbs.
ti , tierce 5 to 7 cwt.	
bale (Mocha) 2 to 2 cwt.	chest
C Dale (MOCHA) 2 to 21 CWt.	Sugar bag (E. Indies) r to 1 cwt.
Currants caroteel 5 to 9 cwt.	,, hogshead (W. Indies) 13 to 10 cwt.
butt 15 to 20 cwt.	, matt or bag (Mauritius) . I to I cwt.
Feathers bale r cwt.	tierce (W. Indies) 7 to 9 cwt.
Figs drum (Turkey) 24 lbs.	Tapioca barrel
" frail (Faro) 32 lbs.	Tea chest (Congou) 80 lbs.
frail (Malaga) 56 lbs.	,, ,, (Hyson) 60 to 80 lbs.
Galls sack	,, , (ordinary) 84 lbs
Ginger bag (Barbadoes) 1 cwt.	Tiles r load r,000
(E. Indies)	Tobacco hogshead 12 to 18 cwt.
., (Jamaica) r cwt.	Vermilion bag 50 lbs.
Gum chest (Turkey) 4 cwt.	Walnuts haw
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PAPER.

Paper is sold by the ream (twenty quires), each ream consisting of from 480 to 500 alteets. In ordering paper it is necessary to give the size of the sheet and weight per ream, as well as the quality.

PRINTING PAPER

Printing paper is made from wood pulp, treated by the sulphite process, the proportion being three to one. The sizes, with their names, are:—

Inches.	
Post 19 X15	Super Royal 274 X 204
Demy 22 X17	Double Crown. 30 X20
Sheet & Half Post 23 X 19	Imperial 30 X22
Medium 24 × 19	Double Post 312 X 191
Royal 25 X20	Double Demy . 35 X22
Double Foolscap 27 X17	Double Royal . 40 X25

(The weight varies, according to the thickness and quality of the paper, from 10 to 100 lbs.)

BOOK PAPER.

Book paper of the cheapest make resembles printing or newspaper, and is made of the same materials. Ag is used in the better qualities in an increasing pro-portion. It is made in white and various tints. The following terms are used in the description of

The following terms are used in the description of various papers:—
"S. & C.," or sized and calendered. Sizing is a vegetable matter resembling resin, which is mixed with the wood pulp to make it impervious to ink. Other substances are used for "sizing," including China clay and gelatine, according to the quality of the paper. "Calendering" consusts of passing the paper through hot revolving cylindors in close contact.
"S. & S. C. "implies that the paper hry been "sized" and "super-calendered." The latter is a second process driving the paper a closer finish.

and "super-caretures." The sater is a second process, fiving the paper a glossy finish.

"Enamelled" or "art" paper is that which has been coated on one or both sides with a mixture of Chuna clay finely ground and mixed with gelature.

"Antique" paper is of a high quality, which has not been calcudered or enamelled. The sizes are the same as in printing paper; but book paper is susuily folded to the following size dedges uncut). The most common size is crown levo.

	Inches, I		Inches	ches	
Demy 8vo	. 84×53	Demy 16mo	. 51 X.	ł	
Post Bvo	. 71×5	Imperial 32mo			
Crown 8vo		Foolscap ramo.	59 X 3	χŧ	
Demy 12mo	· 74×48	Royal 32mo			
Foolscap 8vo	. 64 X44	Demy 32mo	. 48 X 2	i	
Demy 18mo	. 58×31	Crown 32mo	· 31 ^2	4	

WRITING PAPER.

Cheap writing paper is made of wood pulp. The better classes of paper are made from selected rags, whilst high-class writing paper is made exclusively of linen, highly sized, and either "calendered" er "antique."

BRISTOL BOARD.

The uses of Bristol Board are numerous. It derives its name from the fact that it was first manufactured at that city, but the majority of large paper firms now produce it. The board is made in several suzes:—

2×28, 18×28, and 25½×20½ lns. It can be obtained in almost any weight up to 160 lbs.

BROWN PAPER.

Used for wrapping; is made in a few stock sizes, of which the following are those most usually found:

Casing 46×36	Imperial Cap 293	
Double Imperial . 45×29	Haven Cap s6	
Elephant 34×24 Double Four Pound 31×21	Bag Cap 247 Kent Cap 217	
Donnie Loui Loung 31 V21	went cab at	~ 40

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Traveller, A., John Francis Campbell,
Traveler, A., John Francis Campbell,
Travers, Graham, Margaret C. Todd,
Trusta, H., Mrs. Elizabeth Phelps. Talepitcher, Arthur M. Binctead.

Turner, Ethel, Mrs. H. R. Curlewis,
Twain, Mark, Samuel Langhorne Clemens.
Two Brothers, Alfred (afterwards Lord) and Chas.
Tennyson.
Two Brothers, Archdn. J. C. and Aug. W. Hare.
Tynan, Katharine, Mrs. H. A. Hinkson.
Tytler, Sarah, Miss Henvietta Keddie.
Ubdgue, Capt. Parker Gillmore.
Uncle Remus, Joel Chandler Harris.
Vacuus Viator, Thomas Hughes.
Vagrant, R. C. Lehmann.
Vane, Derek, Mrs. B. Eaton-Back.
Variey, Mrs. G. L. Banks.
Vedette, Rev. W. H. Fitchett.
Vers. Lady Colin Campbell.
Vers. Henry Dunckley, I.L. D.
Verne, Jules, M. Olchewitz.
Violinist, A., Eric Mackay,
W. A., William Archer.

Wagstaffe, Launcelot, Washington Irving, also Charles Mackay. Walker, Patricius, William Allungham. Wallace, Jenny, Mary J. Menison.
Walter, Sir. Coell Rowlanda.
Ward, Artemus, Charles F. Browne.
Warden, Florence, Mrs. C. James.
Warden, Florence, Mrs. C. James.
Warden, Gertrude, Mrs. Wilton Jones.
West, Florence, Mrs. Lewis Waller.
Wetherell, Elizabeth, Susan Warner.
Wharton, Grace, Mrs. K. Thomson.
White, Violet, Mrs. Stannard.
Williams, F. Harold, Rev. F. W. Orde Ward
Winter, John Strange, Mrs. Arthur Stannard.
Wizard, The, J. Corlett.
Woodroffe, Daniel, Mrs. J. C. Woods.
Worbolse, Emma J., Mrs. Etherington Guyton.
Wynne, Charles Whitworth, C. W. Cayzer.
Yendy®, Sydney, Sydney Dobell.
Yorick, Laurence Sterne.
Yorke, Cutris, Mrs. Richmond Lee.
Yorke, Oliver, Francis S. Mahony.
Yorke, Stephen, Miss Linskill.
Z. Z., Louis Zangwill.
Zack, Gwendolme Keats.
Zadkiel, R. J. Morrison.
Zeta, J. A. Froude.

SIGNATURES OF ENGLISH CHURCH BISHOPS.

Bishops of the Anghean Church sign thus, prefixing their baptismal name (or initials), as "Randall Cantuar" in the case of Di. Davidson, and "A.F. London" in that of Dr. Winnington-Ingram. The signatures simply indicate (in most instances) Christian names along with the Latin tule of the see, surnames being ignored. Many Colonial bishops follow the example of the home prelates.

Canterbury, Arbp. Randall Castiner, York, Arbp. Cosmo Ebor. York, Arbp. Cosmo Ebor. London, Bp. A. F. London. Durham, Bp. Handley Dunelim. Winchester, Bp. Handley Dunelim. Winchester, Bp. H. H. Bangor Bath and Wells, G. W. Bath & Well.
Burningham, Bp. Rirmungham. Bristol, Bp. Frivial Carliel, Chelmsford, Bp. Chelmsford, Chester, Bp. F. J. Cevir. Chichester, Bp. F. J. Cevir. Chichester, Bp. C. & Cucsir.

Ely, Bp. Ely.
Exeter Bp. A. Exon.
Gloucester, Bp. Edgar C. S.
Gloucester, Hereford.
Lichneid, Bp. Luchfeld.
Lincoln, Bp. Luracht.
Liverpool, Bp. Lucerpool,
Liandaff, Bp. Llandaff,
Manchester, Bp. Manchester
Newcastle, Bp. Arwastle
Norwich, Bp. T. Norwin.
Oxford, Bp. C. Oxon.
Peterborough, Bp. E. (. Petriburg.
Ripon, Rp. Ripon.

Rochester, Bp. J. R. Roffen,
St. Albans, Bp. Edgar Alban,
St. Asaph, Bp. A. G. Asaph,
St. Davids, Bp. St. Davids,
St. Davids, Bp. St. Davids,
St. Edmundsbury and Ipswich, Bp.
St. Edmundsbury and Ipswich,
Salisbury, Bp. F. F. Sarum,
Salisbury, Bp. F. F. Sarum,
Southwal, Bp. Southward,
Southwal, Bp. Southward,
Southwell, Bp. Southward,
Truro, Bp. Wimfred O. Truron,
Wakefield, Bp. Wakefield,
Worcester, Bp. Huyshe Worcester.

ABBREVIATIONS

IN COMMON USE IN WRITTEN AND PRINTED MATTER.

A.G. - Attorney-General.

Architects. Ark.—Arkansas (U.S.).

AL.—First class (at Lloyd's).

A.A.G.—Assistant Adjutant-General.

A.A. and Q.M.G.—Assistant Adjutant and Quarter-master-General.

A.B.—Babelor of Arts.

A.B.—Babelor of Christ.

A.C.—Arts.

Adjutant.

Adj.—Adjutant.

Adj.—Adjutant.

Ad. Lib.—Adjitant.

Ad. Lib.—Adjitant.

Adv.—Advocate.

Adv.—Advocate.

Adv.—Advocate.

Adv.—Advocate.

Adv.—Advocate.

Adv.—Advocate.

Adv.—Advocate.

Arts.—Atsocate Faculty of Actuaries.

A. II.—Into Henre (the year of the Flight).
A. I.A.—Associate Institute of Actuaries,
A. K. C.—Associate Institute of Actuaries,
A. K. C.—Associate Institute of Actuaries,
A. K. C.—Associate Institute of Actuaries,
A. I. B.—Alabama (U.S.).
Alba.—Alberta.
A. I. S.—Associate of the Linnean Society.
A. M.—Anno Mundi (Year of the World): Ante Meridiem (before mid-day); Master of Arts (Artum Magster).
A. M. I. C. E.—Associate Member of Institute of Civu Engineers.
A. M. I. E. E.—Associate Member of Institute of Electrical Engineers.
Anat.—Anatomy; Anatomical.
Anon.—Anonymous.
Ass.—Answer.
A. O. D.—Ancient Order of Foresters.
App.—Appendix.
A. R. C. E.—Academical Rank of Civil Engineers.
A. R. C. C.—Associate of the Royal Academy of Music.
A. R. C. E.—Academical Rank of Civil Engineers.
A. R. C. D.—Associate of the Royal Academy of Music.
A. R. C. E.—Academical Rank of Civil Engineers.
A. R. J. B. A.—Associate of the Royal Institute of British

-Class Clk.-Clerk.

C.L.—Commander of the Order of Leopold. C.M.—Church Missionary. C.M.—Master in Surgery. C.M.—Certificated Master. A.R.S.A.—Associate of Royal Scottish Academy. A.R.W.S.—Associate of Royal Society of Water-Colours. A.S.—Anglo-Saxon. C.M.—Certificated Masier.
C.M.G.—Companion of St. Michael and St. George.
C.M.S.—Companion of St. Michael and St. George.
C.M.S.—Clurch Missionary Society.
C.O.—Commanding Officer; Colonial Office.
Co.—County: Company,
C.O.D.—Cash on Delivery.
Col.—Colonel, Colony, or Colouial.
Col.—Colonel, Colony, or Colouial.
Col.—Golural, Colonel, Colony, Colonel, A.S. Corps.—Army Service Corps.
Assoc. Sc.—Associate in Science. -Assistant. Ass.-Commiss.-Gen.—Assistant-Commissary-General. Ath.-Athabasca (Canada). Att., Gen.—Attorney-General.
A.U.C.—Anno urbis condita, "from the foundation of the city" (Rome).
A.V.—Authorised Version. Av.—Avenue Com.-in-Chf.-Commander-in-Chief. Avoird.—Avoirdupois. B.—Baron. b.—born. Conn.—Commander. Conn.—Connecticut (U.S.). Corp.—Corporal. B.A.—Bachelor of Arts Ball.—Balliol. cr.—created. Cr.—Creditor. Cr.—Crown. bar.—Barometer. Barr. - Barrister. Barr. — Barrister.
Bart. or Bt. — Baronet.
Batt. — Battelion.
Bc. — Before Christ.
B. C. — British Columbia.
B. Chir. — Bachelor of Chirurgery (Surgery).
B. C. L. — Bachelor of Civil Law.
B. C. S. — Bengal Civil Service
B. D. — Bachelor of Divinity.
B. Brow — Bachelor of Former Properties.
B. D. — Bachelor of Former Properties. B.Eng.—Bachelor of Engineering.
Beds.—Bedfordshire. Beds.—Bedfordslure.
Berks.—Berkshure.
B.L.—Bachelor of Letters or of Law.
B.M.—Bachelor of Medicine.
B.M.A.—British Medical Association,
B.N.C.—Brascones College.
B.O.C.S.—Bombay Gruf Service.
Bo.S.C.—Bombay Staff Corps.
Bot.—Botany; Botanical.
Bp.—Bishop.
Bross.—Bombay Cruf. Bp.—Bishop.
Brev.—Brovet.
Brig.—Brigade; Brigadier.
Brit. Ass.—British Association.
Brit. Mus.—British Museum.
B.F.—British Public.
B.S.—Bachelor of Surgery.
B.S.C.—Bengal Staff Corys.
B.S.C.—Bengal Staff Corys.
B Th.—Bachelor of Theology.
B V.M.—Blessed Virgin Mary.
Bucks.—Buckinghamshire
c.—Cent's; centimes; centigrade.
C.—Roman numeral for roo.
C.—Conservative. C.—Conservative
C.A.—Connervative
C.C.—Connervative
C.C.—Connervat -Drachm C.F.—Chaplain of the Porces.
C.G. H.—Cape of Good Hope.
Chan.—Chancellor; Chancery.
Ch. Ch.—Christ Church.
Ch. Coll.—Christ's College.
Ch. M.—Master of Surgery (Chirurgery).
Ch. Ch.—Chairman. . C.I.—Imperial Order of the Crown of Lidia, C.I.E.—Companion of the Order of the Indian Empire. Cir.—Circus. Circ.—Circa. C.J.—Chief Justice.

Corr. Mein. or Fell.—Corresponding Member or Fellow. C.P. R.—Canadian Pacific Railway. Cr.—Crown.
Crs.—Crescent.
C.S.I.—Coulpannon of the Order of the Star of India.
C.T.C.—Cyclists' Touring Club.
C.U.A.C.—Cambridge University.
C.U.A.C.—Cambridge University Athletic Club.
C.U.B.C.—Cambridge University Boating Club.
C.U.C.C.—Cambridge University Boating Club.
C.U.C.C.—Cambridge University Footlail Club.
C.U.F.C.—Cambridge University Footlail Club.
C.U.F.C.—Cambridge University Footlail Club. Currt - Current. C.V O - Communder of the Royal Victorian Order. C.V.O.—Communder of the Royal Victorian Ord Cwt.—Hundredweight D.—Duke; 500 (Roman minerals) d.—Pence (Lat denarr); also died; daughter. D.A.A.G.—Deputy Assistant Adjutant-General, D.A.G.—District of Columbia (U.S.). D.C.—District of Columbia (U.S.). D.C.—District of Columbia (U.S.). D.C.E.—District of Columbia (U.S.). D.D.-Doctor of Divinity. D.D.S.-Doctor of Dental Surgery. deg — Degree.
Del. — Delaware (U.S.).
del. — (L. delineavit), he drew. Dele, or d.—Delete, Cancel.
D.G.—(Der Gratia), by the Grace of God; also D.G.—[Det Gratta], by the Grace of Dragoon Guards,
Dioc.—Diocese; Diocesin
Dist. R.—(Metropolitan) District Railway.
Ditto or do.—The same
D.L.—Deputy-Leutenant,
D.L.I.—Durliam Light Infantry,
D.Litt. or D.Lit.—Doctor of Literature.
Dol. or \$-Dollar.
D.O.M.—Deo Optuno Maximo.
Dom.—Domunis, Dom.—Domanus.
Dow.—Dowager.
D.P.H.—Diploma in Public Health. Dr.-Doctor, debtor. or.—Dracim
Dr. Um. Par — Doctor of the University of Paris.
D.S.—Doctor of Science.
D.S.O.—Companion of the Distinguished Service Order
D.S.O.—Companion of the Distinguished Service Order
D.Y.—L.D. Doctor of Theology
D.V.—L.D. Doctor in Veternary Hygiene
D.V.S.—Doctor in Veternary Hygiene
D.V.S.—Doctor in Veternary State Medicine,
E.—East; Earl.
Eblan.—Elblanensis) of Dublin.
Ebor.—(Eboraceusis) of Publin.
Ebor.—(Eboraceusis) of York.
E.C.—East Central (London postal district).
Eccl.—Ecclesiastical.
E.C.U.—English Church Union.
Ed.—Editor; Edition.
Edin.—Edinbuygh.
E.E.—Early English.
E.E.—Early English.
E.E.—Early English.
E.F.—East Indian. Dr. Umv. Par - Doctor of the University of Paris. Ency. Brit.—Encyclopædia Britannica. Eng.—England. eng.—Engineer.

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Et al. —Et alibi, "and elsewhere."
Etc., &c. —Et cetera, "and other things."
Et seq.—and the following.
E. & W.L. R.—East and West London Railway.
                                                                                                                                                                 G.C.S.I.—Knight Grand Cross of the Star of India,
G.C.V.O.—Knight Grand Cross of Royal Victorian.
                                                                                                                                                                      Order.
                                                                                                                                                                 Gdns,-Gardens.
                                                                                                                                                               Gdns.—Gardens.
gen.—genus, kınd.
Gen.—General.
G.E.R.—Great Eastern Railway.
Gib.—Gibraltar.
G.F.S.—Grit's Friendly Society.
G.L.—Grand Lodge (Masonic).
 f.-fathom; franc.
F.A,-Football Association.
F.A.,—Football Association.

FALI—Fellow of the Auctioneers' Institute.

F.A.S.—Fellow of the Autiquarian Society.

F.B.A.—Fellow of the British Academy.

F.B.O.U.—Fellow of the British Ornithologists' Union.

F.B.S.—Fellow of the Botanical Society.
                                                                                                                                                                 Glos.-Gloucestershire.
G.M.-Grand Master.
 F.B.S.E.-Fellow of the Botanical Society of Edin-
                                                                                                                                                                 G.M.I.E .- Grand Master of the Order of the Indian
 burgh.
F.C.A.—Fellow of Chartered Accountants.
                                                                                                                                                                 Empire.

G.M.S.I.—Grand Master of the Star of India.

G.N.R.—Great Northern Railway.
F.C.A.—PEROW of Chartered Accomments.
F.C.P.—Fellow of the College of Preceptors.
F.C.S.—Fellow of the Chemical Society.
F.D.—Fader Defensor, "Defender of the Faith."
F.E.I.S.—Fellow of the Educational Institute of
                                                                                                                                                                 Goth.-Gothic.
                                                                                                                                                                 Govt.-Government.
                                                                                                                                                                 G.P.O.—General Post Office.
                                                                                                                                                                 Gr.-Greek.
                                                                                                                                                                g.s.—grandson.
Gt B —Great Britain.
G W.R.—Great Western Railway.
H.A.C.—Honourable Artillery Company.
Hants.—Hampshire.
      Scotland.
 F.E.S.—Fellow of the Entomological Society.
F.F.A.—Fellow of the Faculty of Actuaries.
F.G.H.S.—Fellow of the Genealogical and Historical
F.G.H.S.—Fellow of the Genealogical and I Society, F.G.S.—Fellow of the Geological Society, F.G.S.—Fellow of the Institute of Actuaries, F.I.C.—Fellow of the Institute of Actuaries, F.I.C.—Fellow of the Institute of Journalists, F.I.Inst.—Fellow of the Institute of Journalists, Fla.—Florida (U.S.).
F.I.S.—Fellow of the Linnean Society, F.M.—Field-Marshal, Fo.—Follo (one sheet), F.O.—Foreign Office; also Field Officer, fo.b.—Free on Board, F.P.—Fire-plug.
                                                                                                                                                                 Harv.—Harvard.
                                                                                                                                                                 H.B.C.—Hudson Bay Company,
H.B.M.—His Britannic Majesty.
                                                                                                                                                                n. p. m.—His Britaniic Majesty.
H.C.—House of Commons.
H.C.M.—His for Her) Catholic Majesty.
H.E.—His Excellency; His Emmence.
                                                                                                                                                                H.F.,—Hts Excellency; Hts Einmente.
Heb —Hebrew,
H.E.I.C.—Honourable East India Company,
H.E.I.C.S.—Honourable East India Company Service
Heir app.—Herr apparent.
Helr pres.—Herr presumptive.
Herrs —Herr fordshire.
F.P.—Fire-plug.
F.P.S.—Fellow of the Philological Society; Fellow of
the Philosophical Society of Great Britain.
                                                                                                                                                                 H.G.—Horse Guards.
II H —His (or Her) Highness.
                                                                                                                                                                 Hhd.—Hogshead
H l.H.—His (or Her) Imperal Highness.
H l.M.—His (or Her) Imperal Majesty.
 Fr.—French.
Pr.—Frencii.
F.R.A.M.—Frellow of the Royal Academy of Music.
F.R.A.M.—Fellow of the Royal Astronomical Society;
or of the Royal Assitic Society.
F.R.C.I.—Fellow of the Royal Colonial Institute.
F.R.C.O.—Fellow of the Royal College of Organists
F.R.C.P.—Fellow of the Royal College of Physicians.
F.R.C.S.—Fellow of the Royal College of Surgeons.
F.R.C.V.S.—Fellow of the Royal College of Veterinary
                                                                                                                                                                H.I.M.—His for Her) Imperial Majesty.
H.L.I.—Highland Light Infantry.
H.M.—His for Her) Majesty's Customs.
H.M. C.—His for Her) Majesty's Customs.
H.M. I.—His Majesty's Inspector.
H.M.I.N.—His Majesty's Indian Navy.
H.M.S.—His Majesty's Ship; or Service
Hon.—Homourable.
Surgeons,
F.R.G.S.—Fellow of the Royal Geographical Society,
F.R.Hist S.—Fellow of the Royal Historical Society,
F.R.Hort S.—Fellow of the Royal Horticultural
                                                                                                                                                                Hon.—Honorare.
(Hon.).—Honorary.
h p.—horse power (or half pay).
H.Q.—Headquarters,
(H.R.).—Home Ruler.
H.R.—House of Representatives.
      Society.
 F.R I.B.A .- Fellow of the Royal Institute of British
                                                                                                                                                               H.R.,—House of Representatives,
II.R.H.—In: (or Her) Roy al Highne
H.R.I.—Holy Roman Empire
H.S.H.—II. Serene Highness,
Hum —Humanity (Latin),
Hunts,—Huntung(onshire,
H.W.M.—High Water Mark,
 Architects.

F.R.M S — Fellow of the Royal Microscopical Society
F.R.Met.S.—Fellow of the Royal Meteorological
      Society.
 F.R.P.S.G.—Fellow of the Royal Faculty of Physicians
F.R.S.G.—Fellow of the Royal Facuity of Physicians and Surgeons, Glasgow.
F.R.S.—Fellow of the Royal Society
F.R.S.A., 1rel —Fellow of the Royal Society of Anti-
quaries of Ireland.
F.R.S.E.—Fellow of the Royal Society of Edinburgh,
F.R.S.M.A.—Fellow of the Royal School of Naval
                                                                                                                                                                H.W.M.—High Water Mark.
L.—Imperator, of Imperatus, Emperor or Empress
1a.—Lowa (U.S.A.).
1b. or Ibid.—tbiden (in the same place),
1.B.S.A.—Inanimate Bird Shooting Association,
1.C.S.—Indian Civil Service,
1d.—Idaho (U.S.A.).
 Architecture.

F.R.S.L.—Fellow of the Royal Society of Literature.
                                                                                                                                                                 Id .- idem (the same).
F.K.S.L.—Fellow of the Koyal Society of Literatur
F.S.A.—Fellow of the Society of Antiquaries,
F.S.L.—Fellow of the Surveyors' Institution,
F.S.S.—Fellow Society Science and Art, Lond.
                                                                                                                                                                Le.—a.c.t. (that is).

In.—irroric (unknown)

I.H.S.—Zerus Hominum Salvator (Jesus, the Saviour of Men).
Ft -Feet.
 Fur. -Furlongs.
                                                                                                                                                                 III.—Illinois (U.S).
I L.P.—Independent Labour Party.
I.M.D.—Indian Medical Department.
Full -- running.
F.Z.S.—Fellow of the Zoological Society.
G.A.—General Assembly.
Ga.—Georgia (U.S.).
G.C.B.—Knight Grand Cross of the Bath.
G.C.H.—Knight Grand Cross of Hanoverian Guelphic
                                                                                                                                                                 Imp.—Imperial.
I.M.S.—Indian Medical Service.
                                                                                                                                                                in.—inch.
Order.

G.C.I.E.—Knight Grand Cross of the Indian Empire.

G.C.I.H.—Grand Cross of the Legion of Honour.

G.C.M.G.—Knight Grand Cross of St. Michael and
                                                                                                                                                                 I.N.—Indian Navy
                                                                                                                                                               Incog.—Incognito (in secret).
Inc.—Indiana (U.S.)
Inf.—Infra, below.
Insp.—Inspector.
St. George.
G.C.R.-Great Central Railway.
                                                                                                                                                                Insp.-gen. of hosp.-Inspector-general of Hospitals.
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Inst.—Instant ; Institute.
Int.—Interest.
  Int. (savenst).—He idesigned.
1.0.M.—Isle of Man.
1.0.G.T.—Independent Order of Good Templars.
1.0.O.F.—Independent Order of Odd Fellows.
   i.O.U.—I owe you.
i.q.—I dem guod (the same as).
I.R.—Inland Revenue.
    Ir.—Irish,
   Irel.—Ireland
  I.R.O.—Inland Revenue Office.
I.S.C.—Indian Staff Corps.
I.S.O.—Imperial Service Order.
I.T.—Indian Territory (U.S.).
  ital.-Italics.
   Ital, or It.—Italian
  I.W.—Isle of Wight.
J.A.—Judge-Advocate.
    J.A.—Judge-Advocate.
as.—James.
es.—Jesus.
dh., Jho.—John.
J.P.—Justice of the Peace.
J.U.D.—Doctor of both Civil and Canon Law (Lat.
            Juris utriusque Doctor).
Jun.—Junior.

Jun.—Junior.

N.—O.—Junior Optime.

N.—King.

Ran.—Kansas (U.S.)

R.—Kinght of the Order of St. Andrew.

R.R.—Kinght of the Bath; Knight Bachelor

R.C.—King's College; King's Counsel.

R.C.B.—Kinght Commander of the Bath.

R.C.H.—Kinght Commander of the Hanoverian

Guelphic Order.

R.C.L.E.—Kinght Commander of the Indian Empire.

R.C.L.E.—Kinght Commander of St. Michael and

St. George.

R.C.S.I.—Kinght Commander of the Star of India.

R.C.S.I.—Kinght Commander of the Tower and

Sword.
      un.—Junior.
K.C. T.S.—Knight Commander of the Tower and Sword.

K.C. T.S.—Knight Commander of the Royal Victorian R.D.G.—Knight Oragoon Guards.

K.C. V.O.—Knight Oragoon Guards.

K.G.—Knight of the Order of the Garter.

K.H.—Knight of the Hanoverian Guelphic Order.

Kilo.—Kilogramme.

K.M.—Knight of Malta.

K.M.—Knight of Malta.

K.M. Leg. Hon.—Knight of the Legion of Honour.

K.O.S. B.—King's Own Scottish Borderers.

K.P.—Knight of the Order of St. Patrick.

K.R.—King's Royal Rifles.

K.S.—King's Scholar.

K.T.—Knight of the Order of the Thistle.

K.T. S.—Knight of the Order of the Thistle.

K.T. S.—Knight of the Tower and Sword.

Ky.—Kenight of the Tower and Sword.

Ky.—Kenight of the Tower and Sword.

Ky.—Kenicky (U.S.)

L—50 (Roman numerals).
 L.—50 (Roman numerals).
(L.).—Liberal
    Libra, Pounds (sterling).
      .—lett.
..A. — Literate in Arts; Legislative Assembly.
..a. — Louisiana (U.S.)
... A. C. — London Athletic Club.
... A. C. — Licentiate of the Apothecarles Company.
... Corp., or Lance-Corp. — Lance-Corporal.
... Lancashire.
  Lancs. - Lance
   Lat.-Latin.
 Lat.—Latin.
1b.—pound (weight).
L.C..—London County Council.
L.C.L.—London County Council.
L.C.L.—Lord Chief Justice.
L.C.P.—Lord Chief Justice.
L.C.P.—Licentiate of the College of Preceptors.
L.Div.—Licentiate of Divinity.
L.D.S.—Licentiate of Dental Surgery.
L.F.I.Inst.—Life Fellow Imperial Institute.
L.F.P.S.—Licentiate of the Faculty of Physicians and
L.G.—Life Guards.
L.H.D.—(Literarum Humaniorum Doctor) Doctor of Literature.
                                                                                                                                                                                      ٠,
  L.I.-Light Infantry.
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Lic. Med.—Licentiate in Medicine.
Linc. or Lincs.—Lincolnshire.
Lit.—Literature; Literary.
Lit.—Literature; Literary.
lit.—Literally.
Lit. Hum.—Classics.
Litt.D.—Doctor of Letters.
 Litt.D.—Doctor of Letters.
L.I.—Lord Justice.
L.L.—Lord-Lieutenant.
L.L.A.—Lady Literate in Arts.
L.L.B.—Bachelor of Laws.
L.L.D.—Doctor of Laws.
L.L.M.—Master of Laws.
 sicians.

L.R.C.P.E.—Licentiate Royal College of Physicians,
Edmburgh.

L.R.C.S. — Licentiate of the Royal College of Surgeons.

L.R.C.S. E.— Licentiate of the Royal College of Surgeons.

L.R.C.V.S.—Licentiate of the Royal College of Surgeons.

L.R.C.V.S.—Licentiate of the Royal College of Veterinary Surgeons.

L.S.—Lows rigilit, place for the seal.

L.S.A.—Licentiate of the Society of Apothecaries, f. d.—Pounds, shillings, pence; Money.

Lt.—Light (e.g., Light Infantry).

Lt. or Lieut.—Lieutenant.

Lt. Col.—Lieutenant. Colonel,

Ltd.—Limited.
         Edinburgh.
  Ltd.-
                        -Limited.
 Ltd.—Limited.
Lt.-Gen.—Lieutenant-General.
L.Th.—Licentate in Theology.
(L.U.)—Liberal Unionist.
L. & N.W. R.—London and North-Western Railway.
L. & S. W. R.—London and South-Western Railway.
L. & Y. R.—Lancashire and Yorkshire Railway.
L. B. & S. C. R.—London, Brighton, and South Coast
        Railway.

C. & D. R.—London, Chatham, and Dover Railway.

W.M.—Low water mark.
 M.—Member; Monsieur; 1000.
 m.—narried.
m.—married.
M.A.—Master of Arts.
M.A.B.—Metropolitan Asylums Board.
Magd.—Magdalen; Magdalene.
Maj.—Gen.—Major-General,
Man.—Mantioba;(Canada),
Marq.—Marquis.
Mases.—Massachusetts (U.S.)
Man — Mantoba (Canada).

Marq. — Marquis.

Mass. — Massachusetts (U.S.)

Mass. — Massachusetts (U.S.)

Mash. — Mathematics; Mathematical.

M.B. — Bachelor of Medicune.

M.C. — Master of Ceremonies.

M.C. — Master of Curemonies.

M.C. — Master in Surgery (Chururgery).

M.C.S. — Master in Surgery (Chururgery).

M.C. — Master in Surgery (Chururgery).

M.C. — Manton (U.S.)

M.E. — Manton (U.S.)

M.E. — Muning Engineer.

Mem. — Mernorandum.

M. Eng. — Master of Engineering.

Met. M. — Metropolitan Railway.

M.F. B. — Metropolitan Railway.

M.F. B. — Metropolitan Fire Brigade.

M.F. H. — Master of Forbounds.

Mich. — Michigan (U.S.)

Mil. Sec. — Military Secretary.

Min. Sec. — Military Secretary.

Mins. — Mississippi (U.S.)

M. Inst. C. E. — Member of Institute of Journalists.
M. Jnst. C.E.—Member of Institute of Civil E M. J.I.—Member of Institute of Journalists. M. J.S.—Member of the Japan Society. M. L. A.—Member of the Japan Society. M. L. A.—Member of Legislative Assembly. M. L. C.—Member of Legislative Council. Mille.—Mademoistelle (Miss). nun.—Millimetres. M. M.—Messleuts; Gentlemen. Mmg.—Madame. Mingr.—Monsignor. Mo.—Missouri (U.S.) mo.—month.
                  -month
  Mods.-Moderations; First public exam. at Oxford.
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o. -only.

% -- per cent ; or in the handred.

O.—Ohio (U.S.)
Ob.—Ded.
Obs.—Obsolete.
o.c.—only child.
O.H.M.S.—On his Majesty's Service.
O.K.—Sing term for all correct (orl krekt).
O.L.—Officer of the Order of Leopold. Mon.-Montana (U.S.) Most Rev.—Most Reverend (of an Archbishop). M.P.—Member of Parliament. Member of Pharmaceutical Society. M P.S.—Member of Pharmaceutical Society.
M R.—Master of the Rolls: Midland Ruilway.
M R.A.S.—Member of the Royal Asiatic Society.
M.R.C.P.—Member of the Royal College of Physicians.
M.R.C.P.E.—Member of the Royal College of Physicians, Edimburgh.
M.R.C.P.E.—Member of the Royal College of Physicians. Edimburgh. O.M .- Order of Merit. Ont,-Ontario. O.P.—Ordinis Pradicatorum — of the Order of Preachers (Dominican Ecclesiastical Title). Physicians, London.
M R C.5.—Member of the Royal College of Surgeons.
M R C.S.E.—Member of the Royal College of Surgeon, Edmburgh.
M.R.C.V.S.—Member of the Royal College of Veterin-O.P.—Opposite to prompter : stage term. O.r.—Ophosic to Frompier 1 stage term.

op. cit — (Opere citate).—In the work referred to
Ore —Oregon (U.S.)
O.S —Old style in the Calendar (of Great Britain before M.R.C.V.S.—Member of the Royal College of Veterinary Surgeons.
M.R.I.—Member of the Royal Institution.
M.R.I.A.—Member of the Royal Irish Academy.
M.R.I.P.W.C.—Member of the Royal Institute of Painters in Water Colours.
M.R.S.P.W.C.—Member of the Royal Society of Painters in Water Colours.
M.R.U.S.I.—Member of the Royal United Service Institute. 1752); ordinary seminin.
0.5.—Bay son.
0.5.B.—Order of St. Benedict
0.5.N.C.—Ordert Steam Navigation Co.
0.T.—Old Testament.
0 U.—Oxford University
0.U.A.C.,—Oxford University Athletic Club.
0.U.B.C.,—Oxford University Boating Club.
0.U.C.C.,—Oxford University Cricket Club.
0.U.F.C.,—Oxford University Cricket Club.
0.U.F.C.,—Oxford University Cricket Club.
0.U.F.C.,—Oxford University Cricket Club.
0.X.D. Oxford University Cricket Club.
0.X.D. Oxford University Cricket Club.
0.X.D. Oxford University Cricket Club. 1752); ordinary scaman. Institute. Institute.

M.S.—Master of Surgery.

M.S.A.—Member of the Society of Arts.
M.S.H.—Master of Stag-hounds.
M.S.,—Manuscript, Manuscripts.
M.S.,—Master of Science.
Mt.—Mountain. oz —Ounce Pa —Penne 02 - Donnes, Pa - Pennsylvania (U.S.) Parl, Agt - Parhamentary agent, P A.S.I. - Professional Associate Surveyors' Institute, Mus B -Bachelor of Music. P C -Privy Councilor; Police Constable, Perperual Mus, D - Doctor of Music. ema, 12 — 1201 (of Music, Mus, M.—Master of Music, M.V.O.—Member of the Royal Victorian Order, N.—North. p.c.—*per centum* (by the hundred); postcard, P.C. M.O.—Principal Colonial Medical Officer. P.E.—Protestant Episcopal, P.E.L.—Pruce Edward Island. (N)-Nationalist. Per pro —Per procuration.
Ph B —Bachelor of Philosophy.
Ph D —Doctor of Philosophy. n -noun, nephew. N.B -North Britain; (L. Nota Bene), note well, New Brunswick.
N.C.—North Carolina (U.S.)
N.C.U.—Nstannal Cyclusts' Union.
N.D.—No date.
N. Dak—North Dakota (U.S.)
N.E.—North-east
Neth—Nebraska (U.S.)
Neth—Nebraska (U.S.)
Nema Con.—Ventur contraduente (no one contradict-Ph D — Doctor of Philosophy, punx—(He) painted it.
Pl. — Place; Plural.
Pl. L C.— Poor Law Commissioner.
Pl. L C.— Poor Law Commissioner.
Pl. L C.— Poor Law Commissioner.
Pl. M.— Post Meratiem (after midday); Pacific Mail.
P.M.G.— Postmaster-General; Pall Wall Gazette.
P.M.O.— Principal Medical Officer
P. M.O.— Principal Medical Officer
P. M.O.— Post Office, Postal Order.
P.O.— Dost Office Order.
P.O.— Post Office Order. ing; unanimously). Nem. Dis.—.Vemine dissentiente (no person disagree-Nem. Ins.—Nomine arractivate (no person disa ing: unaninous). N.E.R.—North-Eastern Railway. Net, Nett.—(It.) Noto (free from all deductions). Nev.—Nevada (U.S.) New M.—New Mexico (U.S.) N.E.—New foundland. Pop.—Population. P.P.—Parish Priest, P.P.—Parch Priest.
Pp.—parce.
Pp.—parce.
P.P.S.—Fir. Pour prindre concé (To take leave).
P.P.S.—Futher posteript.
P.Q.—Province of Queber.
P.R.—Priese Ring (The).
P.R.—President of the Royal Academy.
Preb.—President.
P.R.I.—President of the Royal Institute of Painters in Water Colonia.
Water Colonia. N F.—Nowtoundland.
N.L.—New Grandda
N.H.—New Hampslure (U S.)
N.I.—Native Infantry.
N J.—New Jersey (U.S.)
N.L.F.—National Liberal Federation.
N.E.—North-north-east
N.N.W.—North-north-west. Prin.—Principal. Prof.—Professor. No.—Λ'*umero*, number. No.—Numero, number.
Non seq.—Non vequatur (it does not follow).
Nurthants.—Northamptonshire.
N.P.—Nottinghamshire.
N.P.—Nottinghamshire.
N.R.A.—National Rifle Association.
N.S.—Not Scotia; New Style in the Calendar (in Greit Britain since 1757); National Society.
N.S.A.—National Stating Association.
N.S.P.C.C.—National Society for Prevention of Cruelty. Pro ten.—Pro tempore (for the time being).
Prov.—Provost.
Prox.—Preximo (next)
P. R.S.—President of the Royal Society. P.S.—Posterphim (postscript).
p.s.—passed school of instruction (of officers).
p.s. c.—passed Staff College.
P.S.N. C.—Pacific Steam Navigation Co. Pt.-Pint. 😘 Children. Pte.-Private (soldier). N S.W.—New South Wales.
N. F.—New Testament; Northern Territory of South P.T.O.—Please turn over. P.W.D.—Public Works Department (roads, buildings Australia. Government railways, telegraphs, etc.). Covernment rankings, tenegrapus, tener.
Q.B.—Queen's (now K B.—King's) Bench.
Q.E.—Queen's (now K C.—King's) Counsel.
Q.E.D.—Quali erat demonstrandum (which was to be demonstrated), applied to a theorem.
Q.E.F.—Quali erat faciendum (which was to be done) applied to a problem. N U 1.—National Union of Teachers. N W —North-west. N.W. — North-western Provinces.
N.W.T. — North-western Territories.
N.Y. — New York. City or State.
N.Y. C.— New York City.
N. a. — New Zealand

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Q.M.G.—Quartermaster-General.
Oto.—Quarto (folded in four).
Quant. suff.—Quantum sufficit, a sufficient quantity
                                                                                                                                                        S.C.A.P.A.-Society for Checking the Abuses of
                                                                                                                                                              Public Advertising.
 Quant. suff.—Quantum suppose, Queensi.—Queensland.
Queensi University in Ireland.
q.v.—quod vide (which see).
(R.)—Radical.
R.—Réaumur.
   R.A.—Royal Academician: Royal Artillery.
R.A.C.—Royal Agricultural College,
R.A.M.—Royal Academy of Music
R.A.M.C.—Royal Army Medical Corps,
   R.Art.—Royal Artillery.
R.A.S.—Royal Astronomical, or Asiatic, Society
  R.A.S.—Royal Astronomical, to Assembly
R.B.—Riffe Brigade.
R.B.A.—Royal Society of British Arts.
R.C.—Roman Catholic.
R.C.V.S.—Royal College of Veterinary Surgeons
R.D.—Royal Dragoous.
D.—Buyal Dean.
D.—Buyal Dean.
   R.D.—Rural Dean.
R.E.—Royal Engineers; Royal Society of Painter
        Etchers.
   R.Eng.—Royal Engineers.
Rd.—Road.
   Rear-Adın.-Rear-Admiral.
   Rec.-Recorder.
  Rect.—Rector.
Res.—Resigned; reserve.
Reg.—Regius Professor.
Regt.—Regiment.
Reverend.
Reverend.
  R.F.A.-Royal Field Artillery.
  r.f.p.—retired on full pay.
R.G.A.—Royal Garrison Artillery.
R.H.A.—Royal Hiberian Academy; Royal Horse
 R.H.A.—Royal Hiberian Academy; Royal Horse Artillery.
R.H.G.—Royal Horse Guards.
R.H.S.—Royal Humane Society.
R.I.—Royal Institute of Painters in Water Colours R.I.—Rhode Island (U.S.)
R.I.B.A.—Royal Institute of British Architects.
R.I.G.—Royal Institute of British Architects.
R.I.G.—Royal Institute of British Architects.
R.I.M.—Royal Institute of British Architects.
R.I.M.—Royal Institute of British Architects.
R.I.M.—Royal Institute of British Architects.
  peace).
R.L.O.—Returned Letter Office.
 R.L.O.—Returned Letter Office.
R.M.—Royal Marines.
R.M.A.—Royal Marine Artillery; Royal Military
Academy, Woolwich.
R.M.C.—Royal Military College, Sandhurst.
R.M.L.I.—Koyal Marine Light Infantry.
R.M.S.—Royal Microscopical Society; Royal
Meteorological Society; Royal Mail Steamers.
R.N.—Royal Navy.
R.N.R.—Royal Navy.
Rock, The.—Gibraltar.
Ros.A.—Royal Society Society.
  R.S.A.-Royal Scottish Academy.
  R.S.E.-Royal Society of Edmburgh.
  R.S.L.—Royal Society of Literature,
R.S.O.—Railway Sub Office (Postal),
R.S.P.C.A.—Royal Society for Prevention of Cruelty
 to Animals.
R.S.V.P.—Fr. Répondez s'il vous platt (please
 answer).
R.S.W.—Royal Scottish Water Colour Society.
R.T.S.—Religious Tract Society; Royal Toxophilite
  Rt. Hon.-Right Honourable
Rt. Rev.—Right Reverend (of a Bishop).
R.U.—Rughy Union.
R.U.I.—Royal University of Ireland.
R.V.—Revised Version.
 R.W.S.—Royal Society of Water Colours.
R.Y.S.—Royal Yacht Squadron.
s.—succeeded; or son; shillings.
s.—succeeded; or son; shillings.
(S.)—Socialist.
S.—South; Saints.
S.A.—South Australia.
Salop.—Shropshire.
Sarum.—Salisbury.
S.C.—South Carolina (U.S.).
s.c.—Student at the Staff College.
Sc.—Scilicat, to make known; to wit.
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Sch.—Scholar.
S.C.L.—Student in Civil Law.
Sco.—Scottish or Scotch.
 scr.-scruple.
 sculps.—sculpsit (he engraved)
Sculpt.—Sculptor.
S. Dak.—South Dakota (U.S.).
S.D.F.—Social Democratic Federation.
S.E.—South-east.
S.E.—South-east.
Sec.—Secretary.
Selw.—Selwyn Coll., Cambridge.
S.E.R.—South-Eastern Railway.
S.E.C.—Solicitor-General.
S.H.—Somerset Herald.
 S.J.—Society of Jesus (Jesuits).
S.L.—Serjeant-at-Law.
S.L.—Serjeant-Law.
S.M.—Surgeon-Major.
S.M.E.—School of Milltary Engineering.
Sovs.—Sovereigns.
S.O.—Sub Office (Postal).
 s.p.—sine frole (without issue,
S.P.C.C.—Society for the Prevention of Cruelty to
            Children.
 S.P.C.K .- Society for Promoting Christian Knowledge,
 S.P.G.—Society for the Propagation of the Gospel.
S.P.Q.R.—Senatus Populusque Romanus (The Senate and People of Rome).
 Sq.—Square.
S.S.—Steamship; Saints.
S.S.C.—Solicitor before Supreme Court (Scotland).
S.S.C.—Solicitor before supreme coun societally. St.—Street; Saint.
St. Alb. Hall.—St. Alban Hall.
St. Edm. Hall.—St. Edmund Hall.
Stip.—Stipend; Stipendiary.
S.T.L.—Sacrae Theologiae Lector (Reader or a Professor of Sacred Theology).
S.T.P.—Sacrae Theologiae Professor (Professor of Divinity, old form of D.D.).
Supp.—Superintendent.
Divinity, old form of D.D.).

Supt.—Superintendent.

Surv.—Surviving.

S.W.—South-west.

Syn.—Synonymous; synonym.

Tasm.—Tasmania.

T.C.D.—Trinity College, Dublin.

T.R.H.—Therr Royal Highnesses.

Temp.—Temperature; Temporary.

Tenn.—Tennessee (U.S.A.).

Ter. or Ter.—Terrace.

Tex.—Texas (U.S.).

Tn.—Ton.

T.O.—Turn over.

T.—Transpose.

T.R.C.—Thames Rowing Club; Tithe Rent Charge.

Trin.—Trinity
   T.K.C.—I hames rowing Guid, Trin.—Trinty
T.Y.C.—Thimes Yacht Club; Two Year Old (or Thousand Yards) Course.
 Thousand Yards) Course.
(U.)—Unionist
U.C.—Upper Circle.
U.K.A.—Ulster King at Arms.
U.K.—United Kingdom.
U.K.—United Kingdom of Great Britain and Ireland.
Ult.—Utitimo (last).
 Ult — Ultimo (last).
Univ.—University.
U.S.,—United States.
U.S.A.—United States of America.
U.S.C.—United States of Colombia.
U.S.L.—United States Legation.
U.S. L.S.I.—United States Legation.
U.S. List.—On Unemployed Supernumerary List.
U.S.M.—United States Mail.
U.S.M.—United States Navy.

**Legatins** | Legatins** | Legatins
         .—//rrss (against).
.—Five (Roman numeral); Version; Vicar; Viscount; Vice.
Vice.
v. or vid.—Vide (see).
V.A.—Victoria and Albert.
Va.—Victoria and Albert.
Va.—Victoria Cross.
V.C.—Victoria Cross.
V.D.—Vounteer Officer Decoration.
V.D.L.—Van Dieman's Land.
Ven.—Vennerable (of an Archdeacon).
Very Rev.—Very Reverend (of a Dean).
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Vet.-Veterinary. V.G.—Veterinary.
V.G.—Vicar-General.
V.I.—Vancouver's Island.
Vice-Adm.—Vice-Admiral. Vict,—Victoria. Visc.—Viscount. Viz.—Videlicet (namely). V.L.—Vice-Lieutenant. V.P.-Vice-President. V.P.—Victoria Regina (Queen Victoria).
V.R.—Victoria Regina (Queen Victoria).
V.R. et 1.—Victoria Regina et Imperatrix (Victoria Queen and Empress). Queen and Empress).
Vt.—Vermont (U.S.)
Vol.—Volume.
W.—West.
W.A.—West Australia.
Wadh.—Wadham.
Wash.—Washington State (U.S.).

W.I.—West Indies.
Witts.—Witshire.
Wis.—Wiconsin (U.S.).
W.L.F.—Women's Liberal Federation.
W.O.—WHIEm.
W.O.—War Office. W.S.—Writer to the Signet.
W. Va.—West Virginia (U.S.).
Wyo.—Wyoming (U.S.). X.—Ten (Roman numerals)
Xmas.—Christmas. yds.—yards. Y.H.—York Herald (at Arms). Y.M.C.A.—Young Men's Christian Association. Yorka—Yorkshn". Years. Y.W.C.A .- Young Women's Christian Association.

FAMILIAR FOREIGN PHRASES AND CLASSICAL QUOTATIONS.

Fr., French. Gr., Greck. Ger., German. L., Latin. Sp., Spanish.

Fr., French. Gr., Greek. Ger., ab ante (L..), from before. a bas (Fr.), down with a bâtons rompus (Fr.), by fits and starts, abattu, fem abuttue (Fr.), cast down, a bene placito (It.), at pleasure, ab extra (L..), from without, ab initio (L..), from the beginning, ab intra (L..), from without, ab initio (L..), from the beginning, ab intra (L..), from the beginning, ab one down (Fr.), with justice.

a bon marche (Fr.), cheap, ab origine (L..), from the beginning, ab bras ouverts (Fr.), with open arms abst omen (L.), inay there be no ill omen absolv mean animam (L.). It have relieved my mind, ab une disce connec (L.), from the learn all at urbe conduct (L..), trun the year of the foundation, a capite ad causen (F.), from lead to lice!

Acherouts panulum (L.), food for Acheron, a cheval (Fr.), on account a conver (Fr.), on account a conver (Fr.), under cover, actum set de republica (L.), it is all over with the actum est de republica (L.), it is all over with the republic ad astra (L.), to the stars.

à demi (Fr), by halves, half.

a Deo et rege (L.), from God and the king ad hoc (L.), for this.

ad hommon (L.), to the man. ad hominen [L.], to the man, ad idem [L.], to the same ad infinitum [L.], buther same ad infinitum [L.], without end ad interns [late L.], in the incantime, ad libitum [L.], at pleasure, ad insertiordism [L.], in pity, and massed massed [L.], disgusting, advanced [L.], and here; advanced [L.], and here; advanced [L.], and here; and valure [L.], and here; ad valorem (L.), according to value, affaire d'amour (Fr.), a love affair, affaire de cœur (Fr.) an affair of the heart affaire (l'honneur (Fr.), an affair of honour, affiche (Fr), an advertisement. a fortion (1.), with stronger reason a gauche (Fr.), to the left. à genoux (Fr.), on the knees à genoux (Fr.), on the knees, alter dem (L.), another exactly similar, altum silentum (L.), deep silence annabilis insania (L.), a pleasing delusion, amata bene (L.), well loved (fein) a maximis ad minima (I.), from the greatest to the least, a mensa et. oro (L.), from bed and board. A merveille (Fr.), wonderfully, amicus curie (L.), a friend in court, amor patrie (L.), love of country, amor sceleratus habondi (L.), the accursed love of possession. possession. amor vincit omnia (L.), love conquers all things.

ancieu régime (Fr.), the obl order of things. Anglicè (L.), in English. anno Christi (L.), in the year of Christ, anno Christi (L.), in the year of our Lord. anno mundi (L.), in the year of the world, anno salutis (L.), in the year of redemption. samp saurts (i.), in the year of redens anus mirabhis (L.), year of wonders, ante bellum (I..), before the war, ante lucem (L.) before light, ante mendiem (L.) be fore noon, a outrance (Fr.), to fout, a pied (Fr.), on fout, a pied (77.), on 1001.
audaces fortuna juvat (1), fortune favours the brave audaceter et sincere (1,), boldly and sincerely, audax et cautus (1,), bold and cautous.
au désespoir (17), in despair. au désespoir (Fr), in despair, auch alter un partien (I.), hear the other side, au fait (Fr), well air quainted with a matter; expert au fond (Fr), at the bottom, auf wielerschein (Ger), fill we meet again au meinx (Fr), on the best of terms, au ps aller (Fr), at the worst au premier (Fr), on the first (Powe). an quatrième (Fr), on the tourth [floor]. au revoir (Fr), until we need again, aur issure fam. auri sacra fames (L), accursed hunger for gold, au sérieux (Fr), seriously, aut Cæsar aut nulius (L), Cæsar or nobody, ant Cesar ant names (1.), clease of modes; avant-course (Fr.), a foretaste, avant-point (Fr.), b, consent a verbis at verbera (L.), from words to blows, a vinculo matrimonii (1.), from the bond of matrim ny. Andron (Tr.) as otherwise. a vinction naturality (1.7), in our tree opins of making algorithm and a vinctif (1.7), at pleasure, a vostra beneplacito (1.1), at your pleasure a votre santé (Fr.), to your he dith bona fides (L.), good fault, bona is sua nôrint (L.), if they but knew their own bleasures. blessings. bon gré, mal gré (Fr.), willing or unwilling, bonhomie (Fr.), good nature, bonne bouche (Fr.), a choice morsel.

borgen macht sorgen (Ger.), borrowing makes sorrow

brevet d'invention (Fr.), a patent.
brûler la chandelle par les deux bouts (Fr.), to burn
the candle at both ends.

the Landle At both cities.

bruten fulfine (L.), a forceless thunderbolt comme il faut (Fr.), as a should be, compagnon de voyage (Fr.), travoling compan'on, compos mentis (L.), of sound mind compte rendi (Fr.), an account rendered, con amore (I.), lovingly, conditio sine qu'à non (L.), an indispensable condition,

ing. bouleversement, an overturning.

consensus facit legem (L.), consent constitutes law. consilio et prudentià (L.), by wisdom and prudence, con spirito (I.), with spirit, contra bonos mores (L.), agninst good manners contretemps [Fr.], an unlucky occurrence. copia verborum (L.), abundance of words. copia verborum (L.), abundance of words, coram domino rege (L.), before our lord the king. coram nobis (L.), before us. coram populo (L.), before the public, cordon bleu (Fr.), blue ribbou. corpus delicti (L.), the body of the offence, corrigenda (L.), ist of corrections, coup de soleii (Fr.), sunstroke coup de soleii (Fr.), sunstroke coup de vent (Fr.), sinistroke
coup de vent (Fr.), agust of wind, a gale,
crême de la crême (Fr.), the very best,
crescit eundo (L.), it grows as it goes,
cucullus non facit inonachum (L.), the c wl does not make the monk. make the monk.

cui bono? (L.), a small fault.

cum grano salts (L.), a small fault.

cum grano salts (L.), with a grain of salt.

cum privilegio (L.), with privilege.

currente calamo (L.), with the pen of a facile writer.

damnum absque injural (L.), loss without injury.

de bon augure (Fr.), of good augury.

de bonne grâce (Fr.), willingly

de die un diem (L.), from day to day. de facto (L.), actually.
de gustibus non est disputandum (L.), there is no disputing about tastes. de haut en bas (Fr.), from top to bottom,
Dei grattà (L.), by the grace of God.
de jure (L.), in law.
dejenda est Carthago (L.), Carthage must be destroyed (Cato's saying).

de mal en pis (Fr.), from bad to worse,
de novo (L.), ancw.
dernier ressort (Fr.), a last resource,
deus ex machina (L.), the one who puts matters right deus ex machina (L.), the one who puts matters right at a critical moment. elseu fugaces. . . labuntur anni! (L.), alas! the fleeting years slip by.
e'n mal, kein mal (Ger.), just once doesn't count. embarras de (du) cloux (Fr.), embarrassment in choice. en avant! (Fr.), forward: en passant (Fr.), in passing. en plein jour (Fr.), un broad day. en rapport (Fr.), un sympathy with. en regie (Fr.), un over. entente cordiale (Fr.), cordial understanding. en tout (Fr.), wholly. entente corriate (Fr.), cordial understanding, en tout (Fr.), wholly, en tout cas (Fr.), in any case, entre nois, (Fr.), between ourselves, e pluribus unum (Late L.), many in one, errare est humanum (L.), to err. is human, exceptio probat regulam (L.), the exception proves the rule, fait accompil (Fr), something already achieved. falsus in uno, falsus in ommbus (L), false in one thing. false in all. fama clamosa (L.), a current scandal, fama nihil est celerius (1..), nothing flies faster than rumour far minute (It), doing nothing. Fata obstant (L.), the Fates oppose. Fata viam invenent (L.), the Fates will discover a way. faute de mieux (Fr.), for want of better. faux pas (Fr.), a false step. felicitas multos labet amicos (L.), prosperity has many felicitas multos labet amicos (L.), friends.

femme incomprise (Fr.), a woman misunderstöod.

femme savante (Fr.), a learned woman.

fendre un cheven en quatre (Fr.), to split a hair in four.

festuna lente (L.), hasten gently.

fat justitia, ruat ccelum (L.), let justice be done

though the heavens fall.

fat lux (L.), let there be light.

fide et amore (L.), by faith and love.

fide et fiduciá (L.), by faith and confidence,

fide et fortitudine (L.), by faith and fortitude,

fidet defensor (L.), defender of the faith.

fide non armis (L.), by faith, not by arms.

fides et justitia (L.), fidelity and justice.

fillus nullius /L.), son of nobody a bastard friends.

finis coronat opus $\{L_n\}$, the end crowns the work. flagrante delicto $\{L_n\}$, in the very act. florest $\{L_n\}$, let it flourish. flosculi sententiarum $\{L_n\}$, flowers of wisdom. noscul sentenciarum (L...), nowers of wiscoms, fons et origo (L...), the source and origin. fons learningrum (L...), fount of tears. force majeure (Fr.), superior force. formaliter (Late L...), formally, fort et ficeli nibil difficile (L...), to the brave and faithful nothing is difficult. may fall, he cannot yield, fortite at erecte (L.), the brave man may fall, he cannot yield, fortiter et recte (L.), bravely and uprightly, faithfully, fellcitously. fortiter in re, suaviter in modo (L.), forcibly in act, gently in manner.

fortuna favet fatus (L.), fortune favours fools.

fortuna favet fatus (L.), fortune favours the bold.

fortuna fortes adjuvat (L.), fortune favours the brave.

forum conscientiat (L.), the court of conscience. Heinweh (Ger.), home-sickness.
hic et ubique (L.), here and everywhere,
hic jacet (L.), here lies,
hic labor, hoc opus est (L.), this is the labour, this the toil. toil.

hic sipultus (L..), here buried.
hinc illæ lacrimæ (L..), hence these tears.
hoc age (L.), this do.
hoc anno (L..), in this year.
hoc genus omne (I...), and all that kind.
hoc loco (L...), in this place.
hoc tempore (L...) at this time,
hoc volo, sic jubeo, sit pro ratione voluntas (L..), this l
will, thus I command, be my will sufficient.
hode milhi, cras tibi (L.), to-day is mine, to-morrow
thine. homein (Gr), the rabble, hominibus plenum, amicis vacuum (L.), full of nen empty of friends.
hominis est errare (L.), it belongs to man to err. homme d'esprit, a man of wit.
homo alieni juris (L.), one under another's control.
homo antiquê virtute ac fide (L.), a man of the antique virtue and loyalty.
homo homini lupus (L.), man is a wolf to man. homo multarum litterarum (L.), a man of many literary accomplishments.

homo nullius coloris (I...), a man of no colour.

homo sui juris (L.), one who is his own master.

homi soit qui nual y pense (O. Fr.), evil to him who evil thinks. honneur et patrie (Fr.), honour and country. honores mutant mores (L.), honours alter manners, honoris causa (L.), for honour's sake. honor virtutis præmium (L.), honour is the reward of virine.

honos allt artes (L.), honour nourishes the arts.

horæ subsectivæ (L.), leisure honrs.

hora fugit (L.), the hour files.

hornbile dictu (L.), lorrible to relate.

hors de combat (Fr.), disabled. hors concours (Fr.), out of the contest. hors de propos (Fr.), away from the purpose. hors de saison (Fr.), out of season. humanum est errare (L.), to err is human. hunanum est errare (L.), to err is human. ich dien (Ger.), I serve. idde fixe (Fr.), a fixed idea. idem (L.), the same. idem sonans (L.), sounding the same. idem velle atque idem nolle (L.), to like and to dislike the same things. id est (L.), that is, id genus omne (L.), all that kind. ignot nulla cupido (L.), for a thing unknown there is no desire. ignoti nulla cupido (L.), for a traing unknown there is no desire.
Igran dolori sono muti (It.), great griefs are silent.
if dolor far nienti-(It.), the sweet state of do-nothing.
if penseroso (It.), the pensive man.
impayable (Fr.), invaluable.
imperium et libertas (L.), empire and liberty.
imperium in imperio (L.), a government within another.
lapsus memorise (L.), a silp of the memory.
lares et penates (L.), household gods.

laudator temporis acti (L.,), one who praises past times, laus Deo (L.), praise to God.

lavenir (Fr.), the future, le beau monde (Fr.), the fashionable world. leitmotif (Ger.), a musical phrase denoting a certain person or idea, in an opera or oratorio. le jeu ne vaut pas la chandelle (Fr.), the game is not worth the candle. le style est l'homme même (Fr.), the style is the man is type est momme meme (Fr.), the styl-himself from Buffon], lettre de cachet (Fr.), to raise the curtain, lew non scripta (L.), unwritten law. lex scripta (L.), statute law. lex tallonis (L.), the law of revenge, licentia vatum (L.), poetic licence litera scripta manet (L.), what is written down is permanent. permanent. locum teness (L..), a deputy. locus pentitentus (L..), room for repentance. locus stand (L.), a right to interfere. lucri causă (L..), for the sake of gam, lusus nature (L.), a freak of nature. magna est veritas et prævalebit (L..), truth is great and will prevail magni nominis umbra (L.), the mere shadow of a mighty name. magnum bonum (L.) a great good. magnum onum (L.) a great good,
magnum opus (L.), a master work
maladie du pays (Fr.), home-sickness
mala fide (L.), with bad faith,
mal à propos (Fr.), ill-timed,
mal de mer (Fr.), sea-sickness,
malgré nous (Fr.), in spite of us,
nandamus (L.), a command issued by a higher court to a lower marriage de convenance (Fr.), marriage for convenience, materianillas (L.), the mother of a family, materian medica (L.), medicines generally, matinée (Fr.), morning performance, matre pulchrá filia pulchrior (L.), a daughter fairer than her fair mother. than her fair mother,
mauvaise honte (Fr.), bashfulness,
mauvais sujet (Fr.), a worthless fellow,
med culpă (Late L.), by my own fault,
medio tutissimus bis (L.), the middle course is safest,
memento mort (I..), remember that you must die,
memorabilia (L.), things to be remembered,
mems sana in corpore sano (L.), a sound mind in a sound body. mens sibi conscla recti (L.), a mind conscious of rectitude rectude
meo pericuio (L.), at my own risk
meo pericuio (Fr.), marriage with one of lower station,
meum et turm (L.), mine and thine,
mirabile ductu (L.) wonderful to relate,
mirabile is (L.), wonderful to see,
mirabila (L.), wonders.

mirabila (L.), wonders. modus (L.), manner. modus (L.), manner.
modus operandı (L.), plan ot working.
modus vivendi (L.), a way of living or agreeing.
more suo (L.), in his own way.
motu proprio (L.), of his own accord.
multum in parvo (L.), unch in little.
particeps criminis (L.), an accomplice.
parvi: componere magna (L.), to cumpare great things
with small. per aspera ad astra (L.), the father of his country.

per aspera ad astra (L.), to the stars by rough ways.

per fas et nefas (L.), through right and wrong. personnel (Fr.), persons employed. pia desideria (I..), pious regrets. pia fraus (L) pious fraud.

pièce de résistance (Fr), the substantial joint. pied a terre (Fr), temporary lodging, pis aller (Fr.), the last shift, pleno jure (L.), with full authority. pletto jure (L.), was the surroury, poeta nascitur, non fit (L.), the poet is born, not made, point d'appril, point of support. populus vult (Fr.), point of support. populus vult (Fr.), point of support. post content (L.), after death. pour passer le temps (Fr.), to pass the time. Pour pendra congé, or P.p.c. (Fr.), to take leave.

prescriptum (L.), a thing prescribed, preux chevaller (Fr.), a brave knight, primă făcie (L.), at the first glance, pro arie et focis (L.) for faith and home, profanum vulgus (L.), the rabble, proh pudor! (L.), oh, for shame! pro patrid (L.), for our country, pro tento (L.), for so much, pro tempore (L.), for the time being, pulvis et umbra aumus (L.), we are dust and a shadow. pairts as united summer (L.), we are dust and a snadow. quarte (L.), inquire. quartur (L.), the question is asked, qualitate ask incepto (L.), as from the beginning. quantum, mutatus ab ilio1 (L.), how much changed from what he was! quid riges? (L.), why do you laugh? quieta non movere (L.), let sleeping dogs lie, quis custodiet ipsos custodes? (L), who will watch the watchers? qui s'excuse s'accuse (Fr.), he who excuses himself accuses himself. accuses himself (L.), who shall separate? quit scert consents (L.), who is silent consents (L.), who joes there? quid avert a Deux; (L), who for silent consents. qui va là? (Fr.), who goes there? quod avert at Deux; (L), which may God avert! quod bonum, felix, faustumque sit (L.), may this be right, lappy, and of good omen. quod erat demonstrated. quod erat faciendum (L.), or Q.E.F., which was to be demonstrated. quod drat faciendum (L.), or Q.E.F., which was to be quod hore sib vuit? (L.), what does this mean? quod vide (L.), which see. quo jure? (L.), by what right. rara avis (L.), a rare bird, a prodigy. réchauffe (Fr.), warned up again, reculer pour mieux sauter (Fr.), to draw back to take a better leap redolet lucerna (L.,), it smells of the lamp, religio loci (L.,), the religious spirit of the place, reponse, s'il vous platt, or R.S.V.P. (Fr.), reply, if you please. please.
requiescat in pace! or R.I.P. (L.), may he rest in peace?
respice finem (L.), look to the end,
resumed (Fr.), an abstract.
resurgan (L.), I shall rise again.
[subject.
revenous à nos moutous (Fr.), let us return to our
ubique (L.), everywhere.
ultima ratio regum (L.), the last argument of kings.
ritims thus [1], the last argument of kings. ultima ratio reguin (L.), the last argument of kings, ultima thule (L.), the utmost limit, ultra vires (L.), become one's powers, usque and nausean (L.), to disgust, utile dulet (L.), as below, ut unfra (L.), as above, vade in pace (L.), go in peace, vade in pace (L.), go in peace, vade mecum (L.), a constant companion væ victis! (L.), we to the conquered! vale (L.), farewell, variae lectiones (L.), various readings, varioum note (L.), the notes of various authors, verbum sapients sat est (L.), a word is enough for a wise man. wise mait.

versus or v. (L.), against.

versus or v. (L.), against.

via media (L.), a middle course.

via ritia, via tuta (L.), the beaten path is the safest.

vice (I.), in the place of.

vice versă (L.), the termis being exchanged.

videlicet (L.), namely.

vi et armis (L.), by force and arms; by main force

vigilate et orate (L.), watch and pray

virginibus puerisque (L.), for young people

vis comica (L.), comic power.

vis inertie (L.), passive resistance

vita brevis, ars longa (L.), life is short, art is long.

vivat reginal (L.), long live the queen.

vivat resis (L.), long live the king!

vivat voce (L.), phy the hving voice.

vive, valeque (L.), life and health to you!

solid tout (Fr.), that is all

volo, non valeo (L.), I am willing, but unable.

vox, et præterea nilul (L.), a voice and nothing else.

vox populs, vox Del (L.), the voice of the people is the

voice of God veritas odium parit (I.), truth begets hatred.

HOW TO CORRECT PRINTERS' PROOFS.

The frequent use of soap being absolutely indispensable it is important to obtain it free from noxious ingredients. Too often however, the most poisonous adulterations are found in toilet paps, L.c. causing numerous skin Troubles, the origin of which o is unsuspected, It is with the fullest confidence hom. that the proprietors of Pears' Transparent Soap beler recommend their manufacture to the notice of state those not already acquanted with its longestablished merits. This soap, which has enjoyed s. caps. the highest reputation amongst the aristocracy since its invention in 1789, is prepared solely from the purest naterials, and undergoes a refining process, by which all excesss of alkaline matter is expelled, and a beautiful transparencyimparted to it; whilst its, amber colour is acquired by age only, without the addition of any foreign matter. For ; its delightful fragrance "and beautiful appearance, 2 it commends itself as the greatest luxury of the run on toilet. No medicinal properties are claimed for Pears 9 Transparent Soap, but the above-mentioned special Let. characteristics, together with its absolute purity, have obtained for it testimonials of the highest order (which may be seen at their Depst). The recommendation of the following eminent author. ities, amongst 1 numerous Lothers, Lis sufficient offguarantee for the excellence of its soap. As there are numerous imitations of Pears' Transparent Soap, it is neces sary to obtain it of a \bigcirc

EXPLANATION OF CORRECTIONS

```
Line 17-Change full-point to semi-colon; alter capital
"F" to lower case.
Line 1—Capital letters, not lower case.
... 2—Alter "a" to "e."
                                                                                                                     18—Insert quotation marks.
19—Straighten type.
20—Not new paragraph.
21—Turn letter.
            3-Insert comma.
4-Transpose "o" and "s."
   ••
   ••
                -Change to small (lower case) letter.
            6—Full-point, not comma
   ••
                                                                                                                  "21—Turn letter,
"22—Alter Roman to italic letters,
"23—Delete commas, insert rules.
Lines 23, 24, 25—Range lines at side
Line 25—Change to accented letter,
"26—Insert hyphen.
"26—Equalise spacing between words,
"26—Change wrong-fount letter; alter word "its"
to "the."
"39—Push down space.
                  Change italics to Roman letters; change to bolder type,
    ••
            8-Let it stand.
    ... zo—Commence new paragraph... zz—Alter to small capitals... zy—Change bad letter... z4—Delete "s."
           15-Insert space between words.
                                                                                                                      . 30-Take out space and close up.
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The following shows how the opposite page will read after the corrections have been made:-

THE frequent use of soap being absolutely indispensable it is important to obtain it free from noxious ingredients. Too often, however, the most poisonous adulterations are found in toilet soaps, causing numerous skin troubles, the origin of which is unsuspected. It is with the fullest confidence that the proprietors of **Pears' Transparent Soap** recommend their manufacture to the notice of those not already acquainted with its longestablished merits.

This soap, which has enjoyed the HIGHEST REPUTATION amongst the aristocracy since its invention in 1789, is prepared solely from the purest materials, and undergoes a refining process, by which all excess of alkaline matter is expelled, and a beautiful transparency imparted to it; whilst its rich amber colour is acquired by age only, without the addition of any foreign matter; for its delightful fragrance "and beautiful" appearance, it commends itself as the greatest luxury of the toilet. No medicinal properties are claimed for Pears' Transparent Soap, but the above-mentioned special characteristics—together with its absolute purity have obtained for it testimonials of the highest order (which may be seen at their Depôt). recommendation of the following eminent authoramongst numerous others, is guarantee for the excellence of the soap.

As there are numerous imitations of Pears' Transparent Soap, it is necessary to obtain it of a

SIZES OF TYPE

The following are the names and sizes in ordinary use for printed matter in books, pamphlets, and newspapers:—

DIAMOND

A hundred and twenty years ago Phane' Scar was invented, and its popularity has increased from decade to decade, it being known and used in every part of the world.

PRADE

a hundred and twenty years ago, PEARS' SOAL WAS

A hundred and twenty years ago, Pears' Soar wa NONPAREIL

A hundred and twenty years ago, PEARS' S MINION

A hundred and twenty years ago, PEARS
BREVIER

A hundred and twenty years ago, P

BOURGEOIS

A hundred and twenty years ago, P

A hundred and twenty years ag

A hundred and twenty years

A hundred and twenty y

A hundred and twent

STYLES OF TYPE

Roman Old Style

"Pears' Annual" has the largest sale

"Pears' Annual" has the largest sale

"Pears' Annual" has the largest sale

"Pears' Annual" has the largest sale of REED'S CLARENDON

"Pears' Annual" has the larges

"Pears' Annual" has the largest

HADDO

"Pears' Annual " has the lar

DE VINNE ITALIC

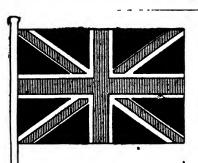
"Pears' Annual" has the large

MORLAND
"Pears' Annual" has the la

BOLD SANS
"Pears' Annual" has the I

SCHORFFER

"Pears' Annual" has the largest sale of



THE UNION JACK.

The present Union Jack is composed of three heraldic crosses, viz., the cross of St. Andrew, forming the blue and white basis; upon which lies the red and white cross of St. Patrick; and upon the whole rests the red and white cross of St. George, dividing the flag vertically and horizontally. The original Union Jack combined only the St. George and St. Andrew crosses, and was adopted on the accession of James VI. of Scotland to the throne of England under the title of James I. in 1602. No further alteration was made in the flag until January 1st, 1801, when the Irish Parliament was dissolved and the Act of Union came into force.

MOTOR-CAR SPEED PROHIBITION AND CAUTION SIGNS

FROM THE ROYAL AUTOMOBILE CLUB YEAR BOOK

The following are the signs employed on highways:-

 For no miles or lower limit of speed, a white ring, 18in, in diameter, with plate below giving the limit in figures.



Example:

 For prohibition, a solid red disc, 18m. diameter.

Example:



 For caution (dangerous corners, cross roads or precipitous places) a hollow red equilateral triangle, 18in. sides.





4. All other notices under the Act to be on diamond-shaped boards.

Example:



The above signs are placed on the near side of the road facing the driver, with their lower edges not less than 8 ft, from the ground, and about 50 yards from the spot to which they apply.

MOTOR-CAR INDEX MARKS ALPHABETICALLY ARRANGED.

The following is a list, alphabetically arranged, of the index marks allotted to the County and Borough Councils of Great Britain and Ireland by the Local Government Board.

It will facilitate the reading of the marks still further if automobilists bear in mind that all the marks containing an "5" belong to Scotland, and those containing an "1" to Ireland. With the exception of the six County Boroughs denoted in the list, all the Irish marks are those of counties.

Ă.	London.	вн	Buckingham- shire.	CR	Southampton.	EF	West Hartlepool.
A A	Hampshire			L L	Lincolnshire,	EH	Hanley and Stoke-
	(Southampton).	BI	Monaghan. East Suffolk.	1	parts of Keste-	EI	upon-Trent.
ΑB	Worcestershire.	l Bk	Portsmouth.	cu	ven. South Shields.	Ē	Shgo.
ΑÇ	Warwickshire.		Berkshire.	čw		Ek	Cardiganshire.
ΑĐ	Gloucestershire.	BL	Bedfordshire.		Burnley. Huddersfield.	EL	Wigan.
AE	Bristol.			CX		EM	Bournemouth.
A F	Cornwall,		Bolton.		Swansea.		Bootle.
AH	Norfolk.	BO	Cardiff.	D.	Kent.	FN	Bury.
ΑI	Meath.	BP	West Sussex.	DA	Wolvernampton.	EO	Barrow-in-
ΑJ	Yorkshire, N.	BR	Sunderland.	DB	Stockport.	1	Furnes
	Riding.	BS	Orkney.	DC	Middlesbrough.	EP	Montgomeryshire.
ΑK	Bradford (Yorks.)	BT	Yorkshire, E.	DE	Pernbrokeshire.	ES	Perth.
ΑL	Nottinghamshire.	l	Riding.	DH	Walsall.	ET	Rotherham.
A M	Wiltshire.	BU	Oldham.	DI	Roscommon.	EU	Hrecknockshire
A N	West Ham.	BW	Oxfordshire.	₽J.	St. Helens.	EW	Huntingdonshire.
A O	Cumberland.	ВX	Carmarthenshire.	DK	Rochdale.	EX	Great Yarmouth.
AP	East Sussex.	BY	Croydon.	DL	Isle of Wight.	EY	Anglesey.
A R	Hertfordshire.	C	Yorkshire, W.	DM	Flintshire.	F	lissex.
A S	Nairn.	1	Riding.	DN	York.	FA	Burton-on-Trent.
AT	Kingston-upon-	CA	Denbighshire.	DO	Lincolnshire,	FB	Bath.
	Hull.	CB	Blackburn.		parts of Holland.	FC	Oxford,
ΑU	Nottingham.	ČČ	Camar onshire.	DP	Reading.	FD	Dudley.
A W	Salop.	ČĎ	Brighton,	DR	Devonport.	FE	Lincoln.
AΧ	Monmouthshire.	CE	Cambridgeshire.	DS	Peebles.	FF	Merionethshire.
AY	Leicestershire.	CF	West Suffolk.	DU	Coventry.	FH	Gloucester.
В	Lancashire	CH	Derby.	DW	Newport (Mon.).	FI	Imperary,
BA	Salford.	CI	Queen's County.	DX	lpswich.		N. Kiding.
BB	Newcastle-on-	C1	Herefordshire.	DY	Hastings.	FJ	Exeter,
	Tyne,	čk	Preston.	E	Staffordshire.	FΚ	Worcester.
BC	Leicester.	ĈĹ	Norwich.	EA	West Bromwich.	FL	Peterborough
ВĎ	Northampton-	CM	Birkenhead.	EB	Isle of Ely.		(Soke of).
	shire.	ČN	Gateshead.	EC	Westmorland.	F M	Chester.
BE	Lincolnshire,	CO	Plymouth.	ED	Warrington.	FN	Canterbury,
	parts of Lindsey.	ČP	Halifax.	DE E E E E E E E E	Grimsby,	FÖ	Radnorshire.
					-		

		AFDIA	

OFFICE COMPENDIUM.

FP	Rutland.	II	Leitrim.	INA	Manchester.	SO	Elginshire.
FR	Blackpool.	ΙŪ	Limerick.	NH	Northampton.	SP	l'ife hire.
FT	Tynemouth.	ΙŴ	Londonderry.	NI	Wicklow.	SR	Forfarslure.
FΧ	Dorsetshire.	ΙX	Longford.	NS	Sutherland.	SS	Haddingtonshire.
FΫ́	Southport.	ÌΫ	Louth.	l ö ¯	Birmingham.	ŠΤ	Inverness-shire.
Ğ	Glasgow.	ΪŻ	Mayo.	ŎΛ	Birmingham.	SŪ	Kincardmeshire.
H	Middlesex.	17-	Durham (County).	lŏï	Belfast (County	ŠΫ	Kinross-shire.
ĤΑ	Smethwick.	111	Tyrone,	"-	Borough).	S W	Kirkcudbright-
ΗB	Merthyr Tydfil.	Ιŧŝ	Ross and	los	Wigtownshire,		shire.
НČ	Eastbourne.	, , ,	Cromarty.	P	Surrey.	SX	Linlithgowshire.
НĎ	Dewsbury.	ĸ	Liverpool.	PA	Surrey.	ŠΫ	Midlothian (Edin-
ΗĒ	Barnsley.	ìйı	Waterford.	ΡÎ	Cork (County	٠.	burghshire).
ΗF	Wallasey.	кs	Roxburghshire.	1	Borough).	Т	Devonshire.
ΗÏ	Tipperary,	КŤ	Kent.	PS	Zetland.	ŤΙ	Limerick (County
	S. Riding.	1 7	Glamorgan.	l Ř	Derbyshire.		Borough).
HS	Renfrewshire.	LA	London.	l Ří	Dublin (County	TS	Dundee.
ΪÃ	Antrim.	LB	London.		Borough).	ນັ້	Leeds.
ÍΒ	Armagh.	ī.č	Loudon.	RS	Aberdeen (City).	ŬІ	Londonderry
ÌČ	Carlow.	LĎ	London.	S	Edmburgh,	,	(County Borough).
ÎĎ	Cavan.	LE	London.	l ša	Aberdeenshire.	us	Govan.
ĪĒ	Clare.	ĹĒ	London.	SB	Argyllshire.	ν	Lanarkshire.
ĪĒ	Cork.	LH	Loudon.	SD	Ayrshire.	νs	Greenock.
ĪΉ	Donegal,	Lī	Westmeath.	ŠE	Banffshire.	w	Sheffield.
11	Down.	LK	London.	SH	Berwickshire.	wı	Waterford
īκ	Dublin.	LN	London.	SJ	Buteshire.		(County Borough).
ÌΪ	Fermanagh.	LS	Selkirkshire.	l sk	Caithness	ws	Leith.
I M	Galway.	M	Cheshire.	SL	Clackmannan-	١ẍ́	Northumberland.
IN	Kerry.	MI	Wexford.	1	shire.	Хs	Paisley.
10	Kıldare.	MS	Stirlingshire.	SM	Dumfriesshire	ΙŸ̃	Somersetshire.
I P	Kilkenny.	MX	Middlesev.	SN	Dumbartonshire.	ÝS	Partick.
1 R	King's County.	N	Manchester.				

EXPECTATIONS OF LIFE.

- At decennial ages according to various mortality tables extracted from the official sources by the ROWAL INSURANCE COMPANY, LIMITED, based on:—

 (1) General Population Statistics, Census Returns and Registers of Deaths for England and Wales, (2) The experience of the Life Assurance Companies in respect of their Assured Lives, (3) The experience of the Government in respect of their Annutants.

(1) Census Returns and Registers of Deaths.

Two English Life Tables based respectively on the mortality in the periods:—

	18 ₇ 81	-1854.	1891-1990,							
Age.	Males.	Females.	Males.	Females.						
At										
Birth	39.91	41.85	44'13	47'77						
10	47'05	47'67	49.63	51 97						
20	39 48	40'29	41'02	43'44						
30	32.76	33.81	33 07	35 39						
40	26.00	27'34	25'64	35 39 27 82						
40 50	19'54	20 75	18.00	20'64						
60	¥3'53 8'45	14'34	12.93	IV.IO						
	8:45	0.03	8.05	8.78						
70 80		5'26	4.62	5'05						
90	4 93 2 84	3'01	2.28	2.87						

(2) British Life Offices' Experience.

Age.	Period ending 1863.	Period 1863 to 1893.
20	42'06	43'68
30	34'68	35'57
40	27'40	27'86
50 60	30,31	20.61
60	13.83	14'07
70 80	8.50	8'71
Bo	4.72	4'84
90	2.36	2'43

(3) and (4) Annuitants' Experience.

		Annuitants. o 1875.	60 British Life Offices' Annuitants 1863 to 1893.						
Age.	Males.	Females.	Males.	Females.					
40	26'04	29'84	38.31	30.16					
50	20.36	16,36	31.53	23'49					
	14.38	10,30	14.82	17'01					
2°	9'31 5'67	6.14	9°54 5°66	6.31					
90	- '		3.12	3'45					

SPORTS RECORDS.

ROWING.

UNIVERSITY BOAT RACE.

Instituted 1829. Present Course, Putney to Mortlake, 4½ miles. Including 1914, 71 races rowed. Oxford won 39; Cumbridge, 31. Dead heat, 1 (1877).

			Lengths	1				I	engths
	nın	Sec	won by.	I			mm.	sec. 1	von by
1905 Oxford		35	3	1010	Oxford		20	14	31
1906 Cambridge	19	-4	31		Oxford .		818	29	2
-907 Cambridge	20	26	41		Oxford		† 22	5	6
1918 Cambridge	19	20	2‡	1913	Oxford		20	53	1
1909 Oxford	19	52	31	1914	Cambridge		20	23	41
Control of the contro			T	·					

The first race rowed in outriggers wis in 1846. First race in present style of boats without keels 1857. Sliding seats used for the first time 1873

· Record Tune. † Both boats were water-logged on Saturday, March 30, and ruce declared void; re rowed on Monday, April r, with the result shown.

HENLEY ROYAL REGATTA.

Course, a mile 550 yards

Grand Challenge Cup for Eight Oars. Instituted 1830.

		mm.	sec	1		nun.	sec.
1902	Third Trinity, Cambridge	7	17	1008	Christ Church College, Oxford	. 7	10
	Leander Club	7	9	1949	Club Nautique de Gand, Belgium .	. 7	8
	Leander Club	. 7	50		Magdalen (Oxford)		10
	Leander Club	Ö	58	1911	Magdalen (Oxford)	. 7	ź
1900	Nantique de Gand (Belgonn, 1	firət		1912	Sydney R C	7	6
-	foreign victory)	7	0	1914	Leander Club	ż	11
1907	Nautique de Gand (Belgium)	7	31	1014	Harvard B. (USA)	7	

HENLEY DIAMOND CHALLENGE SCULLS.

Open to all amateurs duly entered a cording to rules.

002 F. S. Kelly, Balliol College, Oxford 8 59 003 F. S. Kelly, Leunder Club 8 41 004 L. H. Scholes, Toronto R. C. Cuada 8 10 005 F. S. Kelly, Leunder Club 8 10 005 H. T. Blackstaffe, Texta R 8 35 07 Capt W. H. Darell, Household 10 10 10 10 10 11 12 12 13 12 13 14 13 14 15 15 14 15 15 15 15 15 16 16 16 17 17 17 18 18 18 18 18 18 18 18	10-6	5 14 19 19 19
---	------	---------------------------

DOGGETT'S COAT AND BADGE.

Course-I ondon Bridge to Chelsea

Instituted in 1715 by Mr. Thomas Doggett, an actor, for the encouragement of good rowing amongst Thames waterment.

			water ruitein		
904 904	R. G. Odell, Lambeth E. Burry, Brentford W. A. Pizzey, Lambeth H. Silvester, Hummersmith E. L. Brewer, Putticy	1908	A. T. Cook, Hammersouth J. Graham, Frith Geo. Robt. Luck, Erth R. J. Packk, Fton	1012	W. J. W. Fisher, Millwall P. L. Francis, Kingston G. H. J. Gobbett, Greenwich S. G. Masbu, Charlton

SWIMMING.

KING EDWARD VII. CHALLENGE CUP.

Open to All Nations. 1903 220 yds. (breast stroke) W. W. Robiuson, Liverpool 440 yds. (any stroke) D. Billington, Bacup . Germany England 880 yards (any stroke) J. A. Jaivis, Leicester

Since 1904 the conditions of the competition allow of one competitor only winning the contest consisting of two Rescue events of 15: to 440 yards, the competitor—who must be attired in walking costume, minus coat—securing the highest aggregate number of points being the winner. † Tied, 25 points each.

ft. in.

RUNNING.

English Championships.

100 YARDS.

Sec. 1

1903-1903 A. F. Duffey 100 1904 J. W. Morton 100 1905 100 1905 1905 1905 1906 1907 1908 R. Kerr 100 1908 R. Kerr 100 1908 R. Kerr 100 1908	1909 R. E. Walker 1910 F. L. Ramsdell 10 2-5 1911 G. H. Patching (S. Africa) 1913 W. R. Appleyarth 1914 " 1, 93-5 Sec. World's Record: D. J. Kelley, Spokane, 1908, 93-5 sec
	YARDS.
1905 H. A. Hyman 22 25 1909 N. J. Cart 1906 C. H. Jupp 23 25 1910 F. L. R.u 1947 J. P George 22 4-5 British and World's Record W. R. Ap	Sec. 1911 F. L. Ramsdell 22 1-5 1912 W. R. Applegarth 1912 W. R. Applegarth 1913 1914 1914 1914 1914 1915 1915 1916
QUART	er-mile.
1902 G. W. Wlute So 1-5 1907 E. H. Mo 1903 C. McLachlan 52 1-5 1904 R. I.i. Watson 51 4-5 1909 W. Halswell 50 4-5 1906 W. Halswell 50 4-5 1907 F. J. Halbi 1908 W. Halswell 50 4-5 1907 F. J. Halbi H. C. L. Tindall H. C. L. Tindall H. C. Refelin, Stephen E. C. Bredin, Stephen L. C. Bredin L. C.	Sec.
HALF	f-MILE.
British Record M. W. Sheppard World's Record E. Lunghi, Mont	m. sec. , Stadium, Loudon, 19.8 1 54 treal, 1909 1 52 1-5
British Record J. Binks, Stamfor	MILE. rd Bridge, 1902 4 16 4-5 .Y., 2895 4 25 3-5
Deltick December 1	MILES. gow, 1904 19 25 2-5

WALKING.

TWO MILES. FOUR MILES. SEVEN MILES. ONE HOUR'S WALKING.
C. E. Lamer holds each of these four records (British and World). Times: Two Miles, 13 min. 11 2-5 sec.;
Four miles, 27 min. 14 sec.; Seven Miles, 50 min., 50 4-5 sec. One Hour's Walking, 8 miles 438 yards

JUMPING.

LONG JUMP.

British Record \\ World's Record \	P. J. O'Connor, Dublin, 1901									,	ft. 24	ın.	
	HIGH JUMP.												
British Record	P. J. Leah Millstreet, 1898. M. F. Sweeney, N.Y., 1895.		•					•	•		6	4	
world's Kecord	M. F. Sweeney, M. I., 1895 .	٠	٠	٠	٠	٠	٠	•	•	•	0	51	1

POLE JUMP.

British Record {E. T. Cooke } Stadium, London, 1908, 12ft. 2in. World's Record W. R. Dray, Danbury, Conn., 1908, 12ft. 9jin. World's Record

THROWING THE 16LB. HAMMER.

(From 7 ft. circle; prior to 1908, 9 ft. circle.)

J. J. Flanagan, Stadium, London, 1908, 170ft. 44in.
M. J. McGrath, Montreal (7tt. circle), 1907, 173ft. 7in.
J. Flanagan, Celtic Park, U.S.A. (9ft. circle), 1908, 179ft 64in. British Record World's Record

CRICKET.

COUNTY CHAMPIONSHIP.

	~~~	<b>—</b> • • • • • • • • • • • • • • • • • • •				
1873 {Notts. Gloucestershire. 1874 Derbyshire. 1875 Notts. 1876 Gloucestershire. 1878 Middlesex. 1878 Middlesex. Notts. 1880 Notts. 1881 Lancashire.	1882   Lancashire. 1883   Notts. 1884   Notts. 1885   Notts. 1885   Notts. 1887   Surrey. 1888   Surrey. 1889   Lancashire. 1890   Surrey. 1891   Surrey.	1863 1894 1895 1896 1897 1898 1899 1900	Yorkshire, Lancashire, Yorkshire, Surrey, Yorkshire, Yorkshire, Middlesex,	1904 1905 1906 1907 1908 1909 1910 1911 1913	Yorkshire. Kent. Notts. Yorkshire. Kent. Kent. Warwickshire. Yorkshure.	
	=					
Notts	Kent	. 4 Mid	diesex2	Der	byshue	1

### In 1873 Notes and Gloucester fied, and in 1879, 1882, and 1899 Notes and Landashire fied. ENGLAND V. AUSTRALIA TEST MATCHES.

From 1877 to 1973 inclusive fourteen representative English crocket teams have visited Australia, and played in all 32 test matches there against Australian teams. Of these England won 27, lost 27, and 2 were drawn. Ellipwinters was the first team to go out, in 1877; Lord Harris's followed in 1875; Islaw's in 1884-1882; the Hon I. Blagh's in 1882-1883; Shaw's again in 1884-1883; and also in 1887; a combined English team in 1886; Lord Sheffield's team in 1887; A. E. Stoddart's in 1894-1895, and again in 1897 1898; MacLarent's in 1991-1992; Witner's (M.C.C.) in 1991-1992; A. O. Jones's (M.C.C.) in 1997-1993; And Watherland teams, accounting for 22 team taches, of which England has won 17 and lost 8, while 17 have been drawn. The years of these test matches were 1880, 1884, 1884, 1886, 1888, 1800-1803, 1803, 1804, 1805, 1804.

1888, 1890, 1894, 1896, 1899, 1992, 1995, 1999, and 1911.

#### SUMMARY.

In Australia: 52 matches. England won 23, Australia won 27, drawn 2 In England: 42 matches. England won 17, Australia won 8, drawn 19 Iotal , 24 matches England w m 40, Australia won 28, drawn 19

### TRIANGULAR TOURNAMENT, 1912.

RESULT OF MATCHES.

a won o; drawn 2. England won 3; South Africa won o; drawn o. Australia won 2; South Africa won o, drawn i England won 1: Australia won 0: drawn 2.

### ETON AND HARROW MATCHES.

Instituted 1805 Played 88 matches Harrow on 45, Eton 35, drawn 18,

## FOOTBALL.

### ASSOCIATION-INTERNATIONAL MATCHES.

ENGLAND v. SCOTLAND

Up to 1914. Games played 43. Scotland won 18, England won 13, drawn of

		goa	ls				gro.	als
1901	Crystal Palace, Drawn	2	2	1908	Glasgow, Drawn			1
1004	Birmingham, Drawn	?	2	1909	Crystal Palace, Engl m l		2	C
1971	Sheffield, Scotland	2	1	1910	Glasgow, Scotland		2	0
1004	Glasgow, England .	1	O	1011	Everton, Drawn		1	I
1975	Crystal Palace, England	1	0		Glasgow, Drawn		1	1
1006	Glasgow, Scotland .	2	1		Stamford Bridge, Ungland.		7	0
1007	Newcastle, Drawn	1	1	1914	Glasgow, Scotland		3	1

FNGLAND & WALES.

Played 36-England won 28, Wales 2; drawn 6. Goals-England 112, Wales 20

ENGLAND T IRELAND.

Played 33 - England won 28. Ireland 2, drawn 3. Goals-England 150: Ireland 22.

SCOTLAND v. WALES.

Played 38-Scotland won 27; Wales 4; drawn 7.

WALES v. IRELAND.

Played 33-Wales won 16; Ireland won 12; drawn 5.

SCOTLAND v. IRELAND,

Played 31-Scotland won 26; Ireland 2; drawn 3.

## LEAGUE-FIRST DIVISION CHAMPIONS-from 1000.

1900	Aston Villa	1905	Newcastle United		Aston Villa
	Liverpool		Liverpool		Manchester United
1902	Sunderland		Newcastle United		Blackburn Rovers
	Sheffield Wednesday		Manchester United	1913	Sunderland
1904	Sheffield Wednesday	1909	Newcastle United	1914	Blackburn Rovers

### ASSOCIATION CUP.

					Go.	ds	!					Goa	ıls
1900-1	*Tottenham Hotspur	beat	Sheffield United	by.	3	1	1907-8	Wolverhampton Wanderers	beat	Newcastle United	by	3	
1901-2	•Sheffield United	"	Southampton	••	2	1	1908-9	Manchester United	••	Bristol City	••	1	0
1902-3	Bury	••	Derby	,,	ō	υ	1909-10	Newcastle United	i.,		••	2	٥
1903-4	Manchester City	,	County Bolton		1	υ	1910-11	Bradford City	••	Newcastle United	••	1	0
	A 17711-		Wanderers				1911-12	<ul> <li>Barnsley</li> </ul>		West Bromwich		1	0
1304-2	Aston Villa	••	Newcastle United	••	2	0	1912-13	Aston Villa		Albion Suiderland		ī	_
1905-6	Everton	11	"		I	o	1913-14	Burnley	::	Liverpool	"	i	
1906-7	Sheffield Wednesday	••	Evertor:	••	2	1	1914-15	Sheffield United	••	Chelsea	••	3	ō

• After a draw.

## RUGBY.

### INTERNATIONAL MATCHES.

ENGLAND P. SCOTLAND.

	ENGENIE I BEGIERIE																												
Up to 1914 played 41—Scotland won 17; Lingland 15; drawn 9																													
										Ċ.	T		G.	г.	1										G.		r.	G.	T.
1901	Scotland .									3	I		o	1	1908										. 7		1	2	٥
1902	England .									ō	2		U	1	1000	Scotland											1	1	x
1903	Scotland									1	(d) 2		Ü	2	1010	England									. ĭ		2	1	0
1904	Scotland									0	`໌ 2		o	1	1011	Fingland											ř	ī	Ī
1905	Scotland .									1	1		Ö	ō	1012	Scotland												-	-
1900	England .									ō	3		Ü		1013	Fingland											Ť	ő	ò
1907	Scotland .										7		Ü	i		1 ngland					. '						ē		d) 2
-,-,											123		LĂN	-		LAND.	•		•		•	•		•			-	-1-1	-, -
												-		-	, IKI	LLAND,													
										Ŀ.	т		(·.		1										G		ı	G.	т.
1901	Ireland .										٥		T (b	) 1	1908												1	ı (1	p) o
1902	England.										2		٥	0	1909	England											2	1	0
1903	Ireland .									1	(p) z		o	O	1210	Draw .									υ		U	O	٥
1904	England . Ireland .						٠			÷	3		o	U	1911	Freland									0		1	o	0
1905	Ircland .			٠						1	4		0	1	1912	England									. 0		5	0	۰
1906	Ireland .									2	2		C)	2	1013	England									. 1(	<b>(</b> (	ĭ	1(d	) 0
1907	Ireland .									<u>۽ (</u>	հոյз		1 (p	) 2	1914										1	•	4	2(10	
											19	NO	LA		, W	ALES.													•
										G.				Ť.											٠,		т	G	r.
IQOI	Walcs										i				1	Wiles .										٠1.			1.
1902	Wales	•	•	•	٠.	•	•	•	٠.		(n) 2		ĭ	ĭ	1000	Wales .	•		•	•	:	•	•	•	. 5,		175	3	ō
1003	Wales										1377 =		÷	ō	1010	England											:	0	2
1904	England .	•	•	•	٠.	•	•	•	٠.	1,	10.15		3 (lu			Wales .									. ĩ		:	1	2
1905	Willes	•		•	٠.	•	•	•	٠.	(	47/3		3(111	יקו	1911	England											•		0
	Wales	•	•	•		•	•	•	• •	-	5					Fingland										11		•	_
1906	Wales	•	٠	•	٠.	•	•		٠.	2	_		o	1	1913											r(i)		0	4,0
1907	weres	•	•	٠	• •	•	٠	•		2	4		٥	O	1914	England	٠		• •	٠	•		•	•	. 2		0	2 (1	d)o
	SCOTLAND v. IRELAND.																												
							DI.		- 1									.1.											

Played 37. Scotland won 25; Iteland won 9, drawn J.

SCOTLAND v. WALES.

Played 30. Scotland won 13; Wales won 16; drawn 1.

IRELAND v. WALES.

Played 29 Wales won 19; Ireland won 9; drawn 1

ONFORD 7. CAMBRIDGE.
Played 41. Oxford won 18; Cambridge won 14, drawn 9

				(ı.					١,,	Ι.
IQQU-IQQI	Oxford	2	O	r	3	1907-1908 Oxford	τ	4	0	0
	Oxford					1908-1909 Drawn				0
1902-1903	Drawn		1	τ	1	1909-1910 Oxford	4	5	n	1
						1910-1911 Oxford			3	1
1904-1905	Cambridge	.3	0	:	U	1911-1912 Oxford	2	3	o	0
		3	IJ	2	T	1912-1913 Cambridge	•	o	U	1
TOOL TOOL	Oxford					rora ross Cambridge	. (/1)	-		

## COUNTY CHAMPIONSHIP. First officially recognised 1888-9.

Summary of results: Yorkshire 7; Durham 6; Devon 6; Kent 2; Lancashire 1; Gloucestershire 2; Northumberland 1; Cornwall 1; Midland Counties 1 (Winners in 1914) Devon and Durham 1 joint holders (1906-7), laving played a draw at West Hartlepool, April 13; 1907 (note try each), and a draw at Evert, April 20, 1907 (no Score)

## NORTHERN UNION CHALLENGE CUP.

			mstru	ca 109;	7.			
1897 1898	Batley. Batley.		Broughton R. Halifax.	1907	Warrington. Hunslet.			Broughton R. Dewsbury.
	Oldham.		Halifex.	Troop	Wakefield T.	- 1	1012	Huddersfield.
	Contactor					- 1		
1900	Swinton.		Warrington.	1910	Leeds.	- 1	1914	Hull.
1901	Batley.	1906	Bradford.	Į.		•		

## GOLF.

### AMATEUR CHAMPIONSHIP.

	Instituted 1886.											
1905 1906 1907 1908 1909	Winner. A. G. Barry	Hoylake. St. Andrews. Sandwich.	Winner.  1910 John Ball	Prestwick. Westward Hol St. Andrews.								
	LADIES' CHAMPIONSHIP.											
1905 1906 1907 1908 1909	Winner. Miss B. Thompson	Hurnham (Som.) . Newcastle, Co. D. St. Andrews.		Portrush.								
	LADIES	INTERNATIO		11P.								
1901 1902 1903	Ireland.   1905   England.   1906   1906   1907   1907   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908		1909 Scotland. 1910 Scotland. 1911 England.	1912 England. 1913 England. 1914 England.								

## CYCLING.

1,000 MILES. h m. s.	1	12 HOURS' SAFETY ROAD RECORD.
W. Welsh (safety) 3 days 15 57 o	1909 '	H. Green (unpaced)
A. A. Chase (paced) 4 10 35 F. H. Grubb (ordinary bicycle) 4 50 49 R. J. and A. F. Ilsley (tandem safety) 4 30 29	1897 . 1910 ! 1902	LAND'S END TO JOHN O' GROATS
H. Green	1903	RECORD.  H Green (safety) 2 days 19 h. 50 min. 1908
H. Green (safety)		ENGLISH 1 HOUR RECORD (PATH).
(tandem safety) 2 1 5) 24 HOURS.		Safety, W. T. Hall, C. T 45 210 1905 Onlmary, B. W. Attlee
F. R. Goodwin (paced, safety) 428 unles H. Green (safety, unpaced) 394 J. F. Walsh (ordinary bicycle)	1898 1901 1891	Tandem Safety, E. James and G. A. Nelson
M. A. Holbem and J. A. Bennett (tandem safety) 3074 ,,	1895	and II Thackthwaite

## HOCKEY.

ENGLAND v. IRELAND. (Instituted 1895). Played 20 matches, England won 17; Ireland 1; drawn 2.

ENGLAND v. WALES. (Instituted 1898). Up to 1914 played 17 matches. England won 17. ENGLAND v. SCOTLAND. (Instituted 1903) Played 12. England won 10; Scotland 1; drawn 1.

1RELAND v. WALES (Instituted 1895). Played 20. Ireland won 20.

IRELAND v SCOTLAND. (Instituted 1902). Played 13. Ireland won 10; Scotland won 2; drawn 1. SCOTLAND v. WALES. (Instituted 1903). Played 12. Scotland won 8; Wales won 3; drawn 1.

## LACROSSE.

### ENGLISH CHAMPIONSHIP. (Instituted 1890.)

				toua	٠.	i i					,031	
1903	Stockport	beat	Woodford .		5		South Manchester	beat	Catford		15	3
1904	South Manchester		Catford		4	1910	Old Hulmeians	.,	Catford		20	6
	Stockport		Surbiton .		3		Stockport	**	Lec		15	5
	South Manchester	**	Surbiton				Stockport	**	I.ee		18	8
	Old Hulmeians	**	Surbiton				Abandoned.		_			
1908	Old Hulmerans	"	Surbiton	. 4	I	1914	Old Hulmeians	**	Lee	٠	21	2

## LAWN TENNIS.

### ENGLAND CHAMPIONSHIP.

(Instituted 1877.)

1902 to 1906 (inclusive) H. L. Doherty 1907 N. E. Brookes (Australia). 1908-1909 A. W. Gore, 1910 A. F. Wilding.

, 1911 A. F. Wilding, 1912 A. F. Wilding, 1913 A. F. Wilding, 1913 A. F. Wilding, 1914 N E. Brookes (Australia).

* Holder did not defend title.

## LADY CHAMPIONS (Since 1903).

	(Instituted 1884). Singles.
1993-1904 Miss D. K. Douglass. 1905 Miss M. Sutton (America). 1906 Miss D. K. Douglass. 1907 Miss M. Sutton (America). 1908 Mrs. Sberry. 1909 Miss D. Boothby.	1910 Mrs. Lambert Chambers 1911 Mrs. Lambert Chambers 1912 Mrs. Lambert Chambers 1913 Mrs. Lambert Chambers 1914 Mrs. Lambert Chambers

Holder did not detend title.

## YACHTING.

#### AMERICA CUP.

The first race for the Royal Yacht Squadron Cup, now known as the America Cup, was sailed on Aug. 221.

1851, the course being round the Isle of Wight. Fifteen vessels started, including the American schooner America, which completely outsailed the British yachts, with the result that the rophy went to the New York Yacht Club, where it still remains in spite of the repeated efforts which have since been made by British yachtsmen to recover it. There have been sixteen contests in all since 1851, and all on American waters, but not until numeteen years after the first race was the challenge taken up again on this side. Canada competed in 1876, and again in 1881, but with no better result; nor did Scotl and's attempt in 1889 meet with any better fate. The more recent endeavours to wrest the Cup from America's keeping have been those of Sir Thomas Lipton, who in 1899, 1901, and 1903 made gallant but vain efforts to outsult the American yachts. He is again a challenger for 1914.

## MOTOR RACING.

#### BRITISH CAR RECORDS.

	line. Avge miles	
	H. M. S. per hour. By whom	
	0 0 20 Lee Gumness	
	o o 32\$ 68 o Lee Guinness	
	0 0 372-5 ., 963 C. Earp	
	0 0 45t 78'9 Lee Guinness	
50 Miles Fe	794	Brooklands 1908
150 Miles F	1 46 6 17 . 84 8 F. Newton	. Brooklands 1908
	'	Brooklands 1907
True.	Distance.	
	m. yds	
r Hour F		. Brooklands 1207
	151 1488. 755. ( harp	
		Brooklands 1907
24 Hours S*		Brooklands 1907
	<ul> <li>World's record also</li> <li>F. Flying Start</li> <li>S. Standing S</li> </ul>	itart.

## POLO.

#### HURLINGHAM CHAMPION CUP.

Instituted 1896. Open to any Polo Teams.
in 1833 to 1893 (inclusive) the Sussex team field the cup; in 1895 and 1896 the Freebooters; in 1897-8-9

	Rugoy, and from 19	oo tne	noiders have been:
1204	Old Cantabs (Capt. Heseltine, W. McCreery,	1910	Old Cantalys (Capt. 6
	F. M. Freake, W. S. Buckmaster).	1	W. S. Buckmaster
1:305	Roehampton (C. Nickalls, Capt. Wilson, P. W.	1011	Eaton (C. P. Nick:
- / - 3	Nickelly Cant. Lloyd).		Nickalls, C. D. Mi

Nickalls, Capt. Llovd).

1906 Roelsampton (C. Nickalls, Capt. Wilson, P. W. Nickalls, Capt. Lloyd).

1907 Freelbooters (Capt. L. C. D. Jenner, R. N. Grenfell, F. O. Grenfell, Duke of Roxburghels, Old Cantabs (Capt. G. Bellville, F. M. Freake, W. S. Buckmaster, Lord Wodehouse).

1909 Roelsampton (R. N. Grenfell, Capt. II, Wilson, A. N. Edwards, Capt. J. H. Lloyd).

G. E. Belville, F. M. Freake, r, Lord Wodehouse).

calls, G. A. Miller, P. W

1911 Eaton (C. P. Nickails, G. A., Miler, P. W. Nickails, C. D. Miler).
1912 Old Cantabs (W. S. Buckmaster, Capt G. Relville, F. M. Freake, Lord Wodehouse).
1913 Quidnuncs (Duke of Peneranda, Capt. H. Tomkinson,Capt. E. W. Palmes, Capt. F. W. Barrett).
1914 Old Cantabs (W. S. Buckmaster, Capt. G. Belville, F. M. Freake, Lord Wodehouse).

### ALL-IRFLAND OPEN OUP.

(Instituted 1878.) Open to all bona tide Club, County, and Vice-regal Staff Teams. The records since 1904 are;-

19.4 Woodpeckers [W. Bass, Hon A. Hastings, Capt. Wilson, Capt. Lloyd (and Capt. Milar).
1995 Insh County P.C. U. (A. Rotherham, S. A. Watt, Major O'Hard, P. P. O'Kellly).
1906 Woodpeckers (W. Bass, Hon. A. Håstings, Capt. Wilson, Capt. Lloyd).
1907 Rugby (Duke of Westminster, R. N. Grenfell, G. A. Miller, C. D. Miller).
1908 G. A., Miller, C. D. Miller).
1909 Old Cantabs (I.Bell, F. M. Freake, W. S. Buckmarter, Lord Wodebouse).

master, Lord Wodehouse).

1909 Woodpeckers (Sir W. A. H. Bass, Bart. Hon. A. Hassings, A. N. Edwards, Capt. H. Wilsonl.
1910 Woodpeckers (Sir W. Bass, Hon. A. Hastings, Capt. H. Wilson, Capt. J. H. Lloyd).
1911 Eaton (C. P. Nickalls, Duke of Westminster, P. W. Nickalls, Earl of Rocksavage).
1912 Alvandoned because of bad weather.
1913 Hillmorton (H. Rich, W. Bolding, J. Drage, S. Barton).

S. Barton).

## RACKETS.

### AMATEUR CHAMPIONSHIPS.

1905 E. M. Baerlein. 1906 Major S. H. Sheppard.	SINGLES (Instituted 1888), 1907 E. B. Noci. 1908-1911 E. M. Baerlein,	1	1912-191 1914 H	3 v	3. S. Foster. . Leatham.
	DOUBLES (Instituted 1890).				
1904-1905 E. H. Miles, E. M. Baerle	in.   1910 B. S. F	oster	Hon. C	. Ŋ.	Bruce.

	DOUBLES (Institute	d 1890).
1904-1905 E. H. Miles, E. M. Baerlein. 1906 E. H. Miles, F. D. Longworth. 1907 Capt. W. L. Foster, B. S. Foster.	1911	B. S. Foster, Hon. C. N. Bruce. B. S. Foster, Hon. C. N. Bruce. H. W. Leatham, H. A. Denison.
1908 F. D. Longworth, V. H. Pennell. 1909 E. M. Baerlem, P. Ashworth.	1913	B. S. Foster, H. Brougham. E. M. Baerlein, G. G. Kershaw.
1909 E. M. Dacticin, 1. Ashworth.	1 1914	L. M. Davien, C. C. Reiman.

### PUBLIC SCHOOLS' CHALLENGE CUP.

(Instituted 1868).

Played 47.
w won 19, Charterhouse 8, Eton 8, Malvern 3, Rugby 3, Wellington 3, Winchester 2, Marlborough 1.

## SHOOTING.

### THE KING'S PRIZE (£250 and the N.R.A. Medal).

(Instituted 1860.)
The competitions took place at Wimbledon down to 1889. Subsequently at Bisley. Open only to Volunteers and Retired Volunteers. Service Rifles. Winners since 1900 have been:—

1900 Private Ward, 1st Devon.	
1901 Lance-Corporal Ommundsen, Queen's Edin. 1909 Corporal H. C. Burr, London R B.	
1902 Lieutenant Johnson, 1st London. 1910 Corporal F. R. Radice, Oxford University.	
1903 Colour-Seigeant Davies, 3rd Glam. 1912 Private W. J. Chiford, Canada.	
1904 Private S. J. Perry, Canada. 1912 Private A. G. Fulton, Queen's Westminster	<b>S</b> ,
1905 Armoury-Sergeant A. J. Comber, 2nd E. Surrey. 1913 Private W. Hawkins, Canada.	
1006 Captain R. F. Davies, 1st Middlesex V.R.C. 1014 Sergeant J. L. Dewar, 4th Royal Scots.	
1907 Lieutenant W. C. Addison, Australia.	

### "NATIONAL" CHALLENGE TROPHY.

(Instituted 1864.)

Open to one team of 20 Volunteers from England, Scotland. Ireland and Wales respectively. Service Rifle.
Highest possible score, 2, 100

		Scores	_			Scores.			Scores.
900	Scotland		1005 Eng	land .		1.924			
COL	Fngland	 7,800	1906 Scot	land .		1,8no	1011	England	 1.872
902	England	 1,882	1907 Eng	land .		1,614	TQ12	England	 1.866
1003	England	 1,821	TOOR SCOT	land .		*x.044		England	
1904	Scotland	 1,010	1909 Eng	land .		1.801	7014	England	 1.072
		•		Highes	t Score				. 20-

### ELCHO SHIELD. (Instituted 1862).

Open to one team of eight from England, Scotland, Ireland, and Wales respectively. Match Ride.
Highest possible score, 1,800.

Contests to 1914: 52. England won 27: Ireland: 14; Scotland: 0; void 1. Wales has never competed. The
Winners since 1900 have been ---

		Scor			Scores.		Scores.
		1,5		Scotland		England	
		1,00		lingland		England	
1902	England	1,5	37 1907	Ireland		England	
1003	Ireland .	1,5	53 1908	Declared void	- 1913	Scotland	1,732
1904	England	1,5	70   1909	England	1,717 1914	Scotland	1,912

, ,			
	THE ST. GEORGE'S CHAL	LENG	E VASE (Founded 1862).
1882 1883 1884 1885 1886	Corporal King, and Wultshire. Sergeant Heiton, and Renfrew. Lieutenant Stevens, 19th Middlesex. Private Vilson, 3th Middlesex. Private Cosborne, 18t Warwick. Private Fergusson, and Perthshire. Private G. Marr, 18t Cheshire. Lieutenant Hole, and Somerset. Sergeant Ford, and South Staffordshire. Sergeant Ford, and South Staffordshire. Sergeant Lowson, 1st Lanark. Captain Gibbs, Gloucester Engineers. Corporal Ritchie, and Renfrew. Private Gray, 18t Norfolk.	1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909	Lance-Corporal Fleming, 4th Surrey Riffes. Corporal Omnunden, 5th Royal Scots. Sergeant Fulton, 13th Middlesex. Private J. Mahy, 1st Guernsey. Spr 19 Murchie, 1st Lanark Engineers. Captain Johnson, London Riffe Brigade. Major J. Howard, 4th Lond. Imp. Yeomany.
1894 1895 1896	Sergeant M'Neill, R. O. S. B.	1013	LtCpl. H. A. Mann, H.A.C.  Pte, A. G. Fulton (G.M.), Queen's Westminster.  Private G. M. Corrie (7th H.L.I.)
1897		1 .3.4	Tivate di lin bonio (/in talant)

## TABLES OF PHOTOGRAPHIC PLATE EXPOSURES.

The following tables (which have been prepared by and are the copyright of "liford," Ltd.), used in accordance with the instructions given, will be found useful in determining the exposure required under the varying conditions occurring in practice.

The Plate, Weather, Stop, and Subject Table should be first referred to. Find the variety of plate you are using and the weather conditions in a line with it. Then follow the column so arrived at downwards to the stop In a straight line with the stop the exposure necessary for each subject will be found under its appropriate heading. After one or two trials this can be done at a glance. Multiply the exposure by the number given in the table of Relative Exposures at Different times of the Day and Year which follows below and the exposure required is obtained.

PLATE, WEATHER, STOP, AND SUBJECT TABLE,

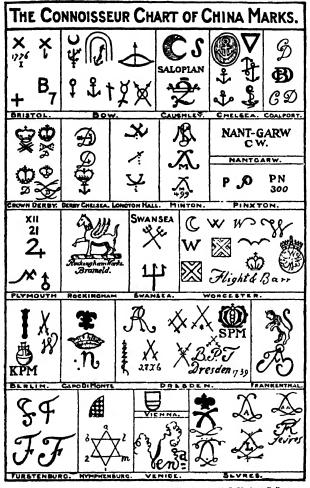
PLATE.				W	EATH	ER.					Lan	DSC	APE	s.	INTE	RIORS	P	OR	rs.
Slow	Very Dull.	Dull.	Cloudy.	Sunshine blue sky.	Sunshine white clouds.	1	ı		ej ej	_	Cattle, etc.	Groups.	ound.		ug.		n air.		
Medium	1	Very Dull.	Dull.	Cloudy.	Sunshine blue sky.	Sunshine white clouds.	1	1	and Extreme Distance.	light foreground.	with foreground,		Landscape with very heavy foreground.	nire up to	require not less than		By bright diffused light in the open		
Fast	1		Very Dull.	Dull	Cloudy.	Sunshine olue sky.	Sunshine white clouds.	1	ry, and Ext	Landscape, light	Iscape with	Foreground, Buildings, Figures,	with very h	Under Trees may require up	eriors requir	iors, up to	diffused ligh	המוס וועור.	ited room.
Ultra-Rapid	ı	ı	ı	Very Dull.	Dull.	Cloudy.	Sunshine blue sky.	Sunshme white clouds.	Sea and Sky,	Open Lanc	Open Landscape	Foregroun	Landscape	Under Tre	Bright Interiors	Dark Interiors,	By bright	ny good studio ugnt.	In well-lighted room.
Stors	5.66	11	11 16 22		5.6 8 11 16 22 32 45 64	5.6 8 11 16 22 32 45 64	5.6 8 11 16 22 32 45 64	5 6 8 11 16 22 3? 45 64 —	TROOF TOO TOO TOO TOO TOO TOO TOO TOO TOO	1005 1 1 1 1 1 1 1 1 1 2 1 2 2 2 2 2 2 2 2		1008 THE ROLL 1 2 48	10 10 10 10 10 10 10 10 10 10 10 10 10 1	m. s. 10 2 0 4 0 8 0 16 0 32 1 4 16 8 30 17 0	0 10 0 10 0 32 1 2 1 4 10 8 30	0 1 0 2 0 4 0 8 0 16	10 1 11 1 12 1 28 1 5 2	36 2 I I S 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 0 12 24 48 40 20

#### RELATIVE EXPOSURES AT DIFFERENT TIMES OF THE DAY AND YEAR.

Hour of Day. 12 N	June,	May. July.	April. August.	March. September.	February. October.	January. November.	December.
a.m. p.m.  11 or 1  9 . 3  8 . 4  7  6 ., 6  5 7	1 1 1 2 2 2 3	1 1 2 3 6	14 14 14 2 3°	300	2½ 3 4 10*	4 5 19°	5 6 26

This table is calculated for latitudes about 52° N. and is suitable for exposures in the British Isles (except the North of Scotland), Holland, Belgium, Derlmark, Mid. Russia, Southern Canada and British Columbia.

N.B.—These figures are too low if the sunset is a markedly yellow one, unless the Chromatic or Rapid Chromatic plate is being used, when they may be taken as sufficiently correct. Exposures with plates of altogether exceptional rapidity, will be two-thirds of those given for Ultra-Rapid in the above table.



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#### Useful Terms for China Collectors.

CHINA.—A modern descriptive term applied to pottery which is made semi-transparent by adding bone to the other materials used in its manufacture.

to the other materials used in its manuscurre.

PORCELAIN.—Semi-transparent pottery made from natural clays, no bone being used. For example:—
Chinese, Dresslen, Linnges, &c.
LUSTRE WARE.—Pottery decorated with gold,

silver, or copper.

BISCUIT.—The first stage of china after being fired.
It is white and porous, and ready for decoration.

IRONSTONE CHINA, SEMI-PORCELAIN, SILICON CHINA, &c.-Trade terms applied to fine qualities of

earthenware.
EARTHENWARE.—A descriptive term to distinguish opaque pottery from china, stoneware, terra-cotta,

ON-GLAZE.-Decoration on the ware, after it has been glazed.
UNDER-GLAZE.—Decoration on the ware when it

is in biscuit state.

## THE LONDON

1697 to June 1720. June 1720 to 1756.

1756 to 1784. 1784 to 1821.

(1) Britannia (Fig. A). (2) Maker's Mark. (3) Date Letter. (4) Lion's Head erased (Fig. B). (2) Leopard's Head Crowned (Fig. C). (3) Maker's Mark. (3) Date Letter. (4) Lion Passant (Fig. D). (1) Leopard's Head Crowned (Fig. E). (9) Maker's Mark. (3) Date Letter. (4) Lion Passant (Fig. F). (3) Explaint (5) Date Letter. (4) Lion Passant (Fig. F). (5) Reigning Sovereign's Head. The first two years of King's Head, £c., 1781-1785 the head is to Left and intaglio, after that it was turned to Riog't to relief.

	Right in relief.	1-1785 the head is to L	ett and intaglio, after	that it was turned to
A	В	न्त्रि ॰	D D	<b>3</b>
Mar. to May.	1716-17	2756-7	1756-7	2776-9
<b>B</b> 1697-8	<b>B</b> 1717-18	<b>b</b> 1737-8	1757-8	1777-8
1698-9	C 1718-19	1738 9	1758-9	<b>C</b> 1778-9
1699-1700	1719-20	dd 1739 40	1759-60	1779-80
1700-ct	1720-21	<b>(P)</b> 1740-41	Geo. 111, 1760-61	£780-81
1701-2	1721-2	1741-2	1761-2	1781-9
Anne. 1702-3	<b>G</b> 1722-3	1742-3	1762 -3	<b>5</b> 1782-3
1703-4	1723-4	1743-4	2763-4	<b>1</b> 2783-4
2704-5	1724-5	1744-5	1764-5	<b>1</b> 2784-5
1705-6	<b>K</b> 2725-6	<b>1745-6</b>	1765-6	2785-6
1706-7	1726-7	1746-7	1766-7	<b>1</b> 2786-7
1707-8	Geo. 11.	1747-8	<b>1767-8</b>	1787-8
1708-9	N 1728-9	2748-9	1768-9	1788-9
1709-10	1729-30	<b>1749</b> -50	1769-70	<b>0</b> 2789-90
1720-22	P 1730-1	1750-51	1770-71	1790-91
1711-19	Q 1731-2	<b>9</b> 1751-2	1771-2	2791-2
1712-13	<b>R</b> 2732-3	1752-3	1772-3	1792-3
1713-14	<b>S</b> 1733-4	<b>1753-4</b>	1773-4	<b>S</b> 2793-4
Geo. I. 1714-15	T 1734-5 ·	<b>1754-5</b>	2774-5	<b>1794-5</b>
1715-16	<b>V</b> 2735-6	1755-6	2775-6	1795-6

## SILVER MARKS.

1821 to 1890.
(2) Leopard's Head Uncrowned (Fig. G). (2) Maker's Mark. (3) Date Letter. (4) Lien Fassant (Fig. H). (5) Reigning Sovereign's Head.
As above but without Sovereign's Head as Duty on Silver was withdrawn.
(2) Leopard's Head Uncrowned (Fig. J). (2) Maker's Mark. (3) Date Letter. (4) Lien Fassant (Fig. K).

NOTE.—The date letter is usually changed at the end of May, and that accounts for two years appearing opposite each mark.

	<b>5</b>	F		G		н		J		ĸ	
A	1796-7	<b>a</b>	1816-17	A	1836-7	A	1856-7	$\langle \widehat{\mathbf{A}} \rangle$	1876 -7	a	1896-7
B	1797-8	<b>b</b>	1817-18	8	Vic. 1837-8	(b)	1857-8	B	1277-8	B	1897-8
C	1798-9	C	1818-19	C	1838-9	C	1858-9	(C)	1878-9	C	x898-9
D	1729-10-10	<b>a</b>	1819-20	D	1839-40	<b>(3)</b>	1859 60	(D)	1879-80	d	1899-1908
E	180, -01	e	Geo. IV. 1820-21	Œ	1840-41	P	<b>1860-61</b>	Ě)	1880-81	<b>e</b>	1900-01
E	1801-2	$\mathbf{f}$	1821-3	F	1841-2	<b>(f)</b>	1861-2	Ť	1881-2	(1)	Ed. VII. 1901-02
G	<b>18</b> 02-3	E	1822-3	G	1842-3	<b>B</b>	1862-3	G	1882-3		2902-3
H	1803-4	H	1823 4	36	1843-4	F	1863-4	H	1883-4	B	1903-4
(1)	1804-5	1	1824 5	3	1844-5	1	1864 5	Ū	1884-5		1904-5
K	z805-6	K	1825-6	1	1845-6	R	1865-G	K	1885-6	K	1905-6
	1806-7	(1)	1826-7	1	1846-7		1866-7	Ŭ	z886-7		2906-7
M	1807-8	m	1827-8	Œ	1847-8	m	z867-8	M	1887-8	M	2907-8
N	1808-9	n	1828-9	$\Omega$	1848-9	T	1868-9	W	1888-9	O	1908-9
0	1809-10	0	1829-30	0	1849-50	0	1869-70	Ŏ	1889-90	0	1909-10
P	1810-11	P	Will. IV. 1830-31	P	1850-51	P	1870-71	P	1890-91	P	Geo. V 1910-11
Q	1811-12	9	1831-2	0	1851-2	9	1871-2	0	1891-2	9	<b>1912</b> -12
R	1812-13	T	1832-3	R	™552-3	r	1872-3	R	1892 -3	r	1912-13
S	1813-14	S	T833-4	S	1853-4	(3)	1873-4	S	1893-4	S	1913-14
	2814-15	(I)	1834-5	Ū	1854-5	<b>(1)</b>	1674-5	Ť	<b>2894</b> -5	Ŧ	1ç14-15
U	1815-16	u	1835-6	O	1855-6	Ø	1875-6	U	189 <u>4-</u> 6	لگ	-: 14-15

## LIQUOR DEALERS', TOBACCO, MOTOR SPIRIT AND OTHER LICENCES AND DUTIES INCLUDED IN THE FINANCE BILL, 1909-10.

The figures below are those applying to the aute-war period. In present changing conditions we which may be superseded any day.

refrain from grung later figures
LIQUOR MANUFACTURERS' LICENCES. Brewer of Beer for sale: according to quantity brewed in preceding year, viz., not exceeding to but rels, fit; exceeding 100, fit for the first 100, and 128. for every further 50.  Distiller of Spirits: not exceeding 50,000 gallons, first exceeding 50,000, for the first 50,000, and fit for every further 25,000.  £ s. d
Rectifier of Spirits
LIQUOR DEALERS' (WHOLESALE) LICENCES. £ s. d.  Beer 50 10 10 0 0 Spirits 55 5 Sweets 55 5 Wine 10 10 10 0
LIQUOR RETAILERS' ON LICENCES.  Beer (Beer-house Licence): a Duty equal to a third of the annual value of the premises, subject to a minimum of from £3 ros to £-3 ros, according to population of district. There is an option to pay in proportion to the annual "compensation value" in certain cases of large beer-houses and "seasonal" hotels.  Clder: from £2 5s where annual value is under £30, up to £6 where it is £100 or over.  Spirits (Publican's Licence): a Duty equal to half the

annual value of the premises, subject to a minimum

innual value of the premises, subject to a minimum of from £5 to £35 according to population of district. There is an option to pay in proportion to the annual "compensation value" in certain case of large public-houses and "sorsonal" hotels. (Hotels and Restaurants): duty to be charged according to proportion that recepts from intoxicating liquors bear to total recepts, or optionally, as per cent. of the "annual licence value"; subject in either case to a minimum charge.

(Clubs): an Excise Duty of 6d, in the £ on their

(Clubs): an Excise Duty of 6d. in the £ on their purchases of intoxicating liquors, but no Licence Duty.

(Theatres, Music Halls and Refreshment Rooms):

The Bill has special provisions.

Sweets: the same scale as for Cider.

Wine: from £4 10s. where annual value is under £30, up to £12 where it is £100 or over.

#### LIQUOR RETAILERS' OFF-LICENCES.

Beer: from £1 105, where annual value does not exceed £10, up to £10 where it exceeds £500. 

### OTHER LIQUOR LICENCES.

Passenger Vessel: £10 (annual); £2 (one day),
Railway Restaurant Car . . . . £1 0 0
Occasional Licences: 10s. per day (5s. if for beer and wine only)

Motor Spirit, manufactured in U.K. the gallon foo of Duty repayable to persons using otherwise than for notive power for motor cars, and half duty repayable when used for trade cars or lackney carrarges, or by a medical man for professional purposes.

Motor Spirit Manufacturer, annual licence	£ı	٥	٥
One put at a time may be sold without a li	0	5	0
One puit at a time may be sold without a li	cend	ce.	)
Spirits, made in U.K.: as, od. additional.			
making total duty per proof gallon	£.o	11	۰
making total duty per proof gallon Tobacco, grown in Ireland (from April 30,	7000	ā.	ñ.
grown in England or Scotland (from Jan. 1.	1010	3".	-
,		s.	a
Manufactured in bond per lb.			ë
Unmanufactured, if containing to per cent.	•	•	۰
moisture per lb.			6
Less than to per cent, moisture ,,	ú	3	11
Tobacco Growers, Cultivators or Curers,		_	
England and Scotland, annual licence	0	5	۵

#### RECEIPTS.

Receipts for the payment of £2 or upwards . . . , rd. (Persons receiving the money to pay the duty.)

Penalty for giving a receipt hable to duty not duly stamped, £30.

Letters acknowledging the safe arrival of Bills of Exchange, etc., and other securities for money, are no longer exempt from the Stamp Act, but must have a stamp affect.

stamp affixed.

#### HOUSE DUTY.

On inhabited houses, occupied as farm-house, I public - house, coffee - shop, shop, or lodging-house, of the annual value of £20.			£
and not exceeding £40	0	0	2
Exceeding £40, and not exceeding £60	0	0	4
Other houses of the annual value of £20, and		0	Š
Other houses of the annual value of £20, and	_	_	_
_not exceding £40	0	0	3
Exceeding £40, and not exceeding £60.	٥	0	6
,, 60	٥	0	9

#### LLTTERS PATENT.

(For Inventions)

(For Inventions)

On application for provisional protection . £x o o On filing complete specification

Upon application for certificate of renewal, before the expiration of the 4th year and in respect of the 5th year, £5; 6th year, £6; 7th year, £7; 8th year, £8; 9th year, £9; 10th year, £10; 11th year, £11; 12th year, £12; 12th year, £13; 12th year, £14.

Every Patent is granted for the term of 14 years from the date of application, subject to the payment, before the expiration of the 4th and each succeeding year during the term of the Patent, of fees as above, and of other small fees prescribed by the Treasury and the Board of Trade from time to time. The patentee may pay the whole or any portion of the aggregate of such prescribed annual fees in advance. Formerly the fees were much lingiler than the above.

## REGISTRATION OF BIRTIIS, MARRIAGES

AND DEATHS.

An infant must be registered within 42 days after its birth. No fee is payable; but after six weeks the registration must take place in the presence of the Superintendent Registrar, when—besides liability to a penalty for neglect—a fee is chargeable.

In Scotland every child has to be registered within 21 days after its birth.—A marriage must be reg stered within three days after the occurrence.—A death must be registered within eight days after the demise

## THE FRENCH METRICAL SYSTEM.



The above diagram illustrates the method of calculation adopted in working out the French Metrical System, which is based on the assumed length of the distance from the Equator to the North Pole. The 10,000,000th part of this distance is adopted as the unit of length and called a metre, and all other measurements are derived from this unit. Thus, the cube of the tenth part of the metre is the unit of capacity, called a tire, and the weight of a millilitre of water at a temperature of 4 Centigr. or 39 1/5 Fahr. is the unit of weight called a gramme. The unit of land measurement is 100 sq. metres, called an are. The multiples in Greek are:—

he to.	1,000 kilo	10,000 myrta,
	rooth	r.oooth
	cents	milli
		hecto. kilo

## EQUIVALENTS OF METRIC WEIGHTS AND MEASURES IN TERMS OF IMPERIAL WEIGHTS AND MEASURES FOR USE IN TRADE.

METRIC TO IMPERIAL.

METRIC TO	IMPERIAL
LINEAR MEASURE.	MEASURES OF CAPACITY.
r millimetre (mm) (1-1000th m.)= 0'03937 inch.	z centilit. (z-zooth litre) = 0.070 glll.
z centimr. (z-rooth m.) = 0'3937	r decilitre (r-roth litre) = 0 176 pint.
z decimetre (z-zoth m.) = 3'937 inches.	I LITRE
( 39'370113 INCHES.	z decalitre (10 litres) = 2 200 gallons.
I METRE (m) = 3 380843 FEET.	r hectolitre (100 litres) = 275 bushels.
1 decametre (10 m.) = 10'936 yards.	WEIGHT.
r hectometre (100 m.) = 109'36 "	Avoirdupois.
r kilometre (1000 m.) = 0.62137 mile.	r milligram (r-roooth grm) = 0.015 grain.
	r centigram (1-rooth grm.) . = 0'154 ,
SQUARE MEASURE.	1 decigram (1-10th grm.) = 1.543 grains.
r square centimetre = 0'15500 sq. inch.	1 granime (1 grm.) = 15 432
z sq. decimetre (100 sq. centi-) = z5.500 sq. inches.	z decagram (10 grm.) = 5 644 drams.
metres)	1 hectogram (100 grm.) = 3'527 oz.
z sq metre (100 sq. deci-{} 10'7639 sq. teci.	r KILOGRAM (1,000 grin ) = 2 2046223 LB. OF
metres) ( 1'1900 sq. yards.	(15432 3504 GARING
r are (100 sq. metres) = 119 60	i myriagram (re kilog.)
I hectare (100 ares of 10,000) = 2.47II acres.	
sq. metres)	r tonne (1,000 kllog.) = 0'984 ton.
CUBIC MEASURE.	r gramme (i grm.)
z cubic centimetre = o o o o cubic in.	( 15 43s grams
z cubic decimetre (c.d.) (1,000) = 61'004 cubic ins.	Apothecaries.
cubic centimetres) )	( 0'2572 drachm.
s cubic metre (1,000 cubic) _ { 35'3166 cubic feet.	r gramme (r grm.) = o'7716 scruple.
decimetres)	15'432 grains.

#### IMPERIAL TO METRIC.

#### APOTHECARIES MEASURE. LINEAR MEASURE. r inch . . . . . . . . = 25'400 millimetres. r foot (12 inches) . . . = 0'30480 metre. I YARD (3 feet) . . . = 0 014383 METRE. I fathom (6 feet) . . . = 1 8288 metres. AVOIRDUPOIS WEIGHT. SQUARE MEASURE. = 6'4516 sq. centimetres. 1 ounce (16 drachms) ... = 28'350 " 1 FOUND (16 ozs. or 7,000) = 0'45359243 KILOGRAM. 2 rations ... = 6'350 kilograms. 2 quarter (28 lb.) ... = 12'70 1 hundredweight (cwt.) } = {50'80 " 1 ton (20 cwt.) ... = {10'6 kilograms.} CUBIC MEASURE. r cubic inch . . . . . = 16 387 cub. centimetres r cubic foot (1728 cubic) = 0.028317 cubic metre. = 16'387 cub, centimetres. TROY WEIGHT. r cubic yard (27 cubic feet) = 0.764553 troy pound (12 oz.) = 373°2420 MEASURES OF CAPACITY. . . . . . . . = 1'42 decilitres. z gill 1 gill = 1'42 declitres. 1 pint (4 gills) = 0'568 litre. 1 quart (2 pints) = 1'156 litres. 2 GALLON (4 quarts) = 4'5459637 LITRES. 1 peck (2 gallons) = 9'092 litres. 1 bushel (8 quallons) = 3'037 dekalitres. 2 quarter (8 bushels) = 2'909 hectolitres. APOTHECARIES WEIGHT.

NOTE .- One litre equals 1,000 cubic centimetres, and one millilitre equals one cubic centimetre.

## WATCH AND TIME REGULATIONS ON SHIPS.

A ship's crew is mustered in two divisions; the Starboard (right side, looking forward) and the Port (left). The day commences at noon, and is thus divided :-

Afternoon Watch ... noon to 4 p.m.
First Dog ... 4 p.m. to 6 p.m.
Second Dog ... 5 p.m. to 8 p.m.
First ... 8 p.m. to 4 a.m.
Middle ... 12 a.m. to 4 a.m. Morning Forenoon ,, . . . . . 4 a.m. to 8 a.m. ,, . . . . . 8 a.m. to noon.

This makes seven WATCHES, which the crew keep alternately, the Watch which is on duty in the forenoon one day having the afternoon next day, and the men who have only four hours' rest one night have eight hours' the next. This is the reason for *Dog Watches*, which are made by dividing the hours between 4 p.m. and 8 p.m. into two Watches.

Time is kept by means of "Bells." Two strokes of the clapper at the interval of a second, then an interval of two seconds, then two more strokes with a second's BELL, ONE SECOND; B. TWO SECS; B. S.; B SS.
B. S.; B. SS.; B.

r Bell is struck at 12.30, and again at 4.30, 6.30, 8.30 p.m.: 12,30, 4.30, and 8 30 a.m.

2 Bells at 1 (struck with an interval of a second between

each-B. s, B.), the same again at 5, 7, and 9 p.m.,

1, 5, and 9 a.m.
3 Bells at 1.30 [B. s, B. ss, B.), 5.30, 7.30, and 9.30 p.m.;
1.30, 5.30, and 9.30 a.m.
4 Bells at 2 [B. s, B. ss, B. s, B.), 6 and 10 p.m.; 2, 6,

and to a.m. 5 Bells at 2.30 (B. s, B. ss, B. s, B. ss, B.) and 10.30

p.m.; 2.30, 6.30, and 10.30 a.m. 6 Bells at 3 (B. s. B. s. B. s. B. s. B. s. B.) and 11

o Bells at 3 (B. s, B. ss, B. s, B. ss, B. s, B.) and 11 p.m.n.; 3-7, and 11 a.m. 7 Bells at 3.50 (B. s, B. ss, B. s, B. ss, B. s, B. s, B.), and x1, x30 p.m.; 3.50, 7.30, and x1, 30 p.m. 8 Bells (B. s, B. ss, B. s, B.) every 4 hours, at noon, at 4 p.m., 8 p.m., midnight, 4 a,m., and 8 a.m.

## ROMAN NUMERALS.

I 1	XI	11   XXX	30 1	C 100	ID	
11 2	XII	12   XL	40 l	CX 110	IDC	
III 3	XIII	13 L	50	CX1 111	DCCC	800
<u>1</u> V · · · · · 4	XIV	14 LV	55	CXC	DCCCLXXVI .	876
V 5	XV	15   L.X.,	60	CC	CM	900
VII · · · · · · · · · ·	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10 1000	2º 1	CCXX	CMXCIX	999
VIII	l Qviii	2 1 5 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1	8	CCC	MT)	1800
IX	XIX	TO XC	20	CCCXX	MDCCC	1800
X 10	XX	20 XCIX	<u>چ</u>	CD	MM	2000

## FLAGS OF THE BRITONS



**ROYAL STANDARD** 



MERCANTILE MARINE



UNION JACK



BLUE ENSIGN



WHITE ENSIGN



SCOTLAND



IRELAND



INDIA



CANADA



AUSTRALIA



NEW ZEALAND



UNION OF S.AFRICA



NEWFOUNDLAND



STRAITS SETTLEMENTS



CEYLON



JAMAICA



BRIT GUIANA



BRIT. EAST AFRICA

## FLAGS OF THE WORLD



UNITED KINGDOM RED ENSIGN



UNITED KINGDOM BLUE ENSIGN



UNITED KINGDOM



UNITED STATES



FRANCE



GERMANY MERCHANT



RUSSIA



ITALY MERCHANT



AUSTRIA-HUNGARY MERCHANT



NETHERLANDS MERCHANT



BELGIUM MERCHANT



SWITZERLAND



NORWAY MERCHANT



SWEDEN



DENMARK MERCHANT



SPAIN



PORTUGAL MERCHANT



GREECE



TURKEY



RUMANIA MERCHANT



BULGARIA MERCHANT



SERVIA MERCHANT



JAPAN ENSIGN



CHINA



BRAZIL



ARGENTINA MERCHANT



MERCHANT



# Pears' Gazetteer of the World

In this section are set forth the names and brief descriptions of the principal countries, states, cities, towns, seas, mountains, rivers, lakes and other geographical features of the world, together with notes of the chief historical and other events connected with those places, and the latest statistical information, based upon the most recent census returns. It will be found to include many places which have only come into prominence in recent years by the changeful course of events. Brevity is a necessity of the compilation, but so far as the facts stated go they may be depended on for accuracy.

## For this edition the Census figures of 1911 are inserted as far as regards the chief places in the United Kingdom.

#### THE ABBREVIATIONS ADOPTED ARE AS UNDER:

agr. = agriculture. alt. = altitude.		ft = feet.	٠	par. = parish.
alt. = altitude.	i	G = gulf.		parly. = parliamentary.
bor. = borough.	:	<i>isl.</i> = island.		prom = province.
C. = cape.	i	L. = lake.	÷	R. = river.
$\epsilon$ . = city.	;	m = miles.		ry. stn. = railway station.
eap.=capital.	:	m/tg. = manufacturing.	1	S. = south.
co. = county.	i	mkt. = market.		spt. = \raport.
dep.=department.		mtn. = mountain.		sq. m. = square miles.
dist. = district.	* :	$V_{\bullet} = \text{north}$		t = town.
div. = division.		N.S.W. = New South Wales.		זול. == village.
E. = east.		$p_{\cdot} = \text{population}.$		$W_{\cdot} = \text{west.}$

As, the name given to numerous small streams in

Aa, the name given to numerous small streams in Germany, Switzerland, France, Russia, and Holland. Aach, & Baden, p. 950.

Aach, & Baden, p. 950.

Aach, & Switzerland, p. 2,500.

Aaford, & Trondhjem, && Norway, p. 3,800.

Aagaard, & Trondhjem, && Norway, p. 3,800.

Aagaard, & Trondhjem, && Norway, p. 3,800.

Aalizheby, & on & of of Bornholm, Denmark, p. 974.

Aal, & on R. Ustedial, Norway, p. 4,000.

Aalborg, & and && in Jutland, prov. Denmark, p. Aalborg, c. and && in Jutland, prov. Denmark, p. Aalborg, c. and && in Jutland, prov. Denmark, p. Aalbord, of the wittenberg, p. 7,500. Ip 11,672.

Aalean, walled in Wurtenberg, p. 7,500. Ip 11,672.

Aalesund, \$pt. Norway, centre of herring fishery,
Aalsmeer, vol nr. Anisterdani, p. 4,500.

Asismeer, vil nr. Amsterdam, p. 4,500.
Asismeer, vil Netherlands, prov. Gelderland, p. 6,800 Aalum, vol. Jutland prov. Denmark, fine Norman church.

Aar, R. in Switzerland, flows through the Brientz and Thun lakes, and thence into the Rhine.

Aarau, t. Switzerland, cap. canton Aargan, p 7,824 Aarburg t on R. Aar, p 2,100 [Bainy, p 1,500.
Aarce, 1st. on Little Belt, off Hadersleben, N Ger-Aardenburg, t, prov. Zeeland, Netherlands, p 1,812
Aargau, canton in N. Switzerland, area, 542 sq. m.;

has extensive vineyards, p. 200,408.

Aarhuus, c. and principal Jd. on E. coast of Jutland,
Denmark; famons Gothic cathedral, p. 51,814.

Aarianderveen, f. in S. Holland, p. 300.

Aarid, prov. Arabia, containing Riadh city, cap. 2. the

AATIO, 5707. Arabit, Containing States (1), 19, 2,500, Aarmuhle, liealth resort, cauton Bern, Switzerland, Aba, t. in Hungary, p. 3,000.
Abach, t. nr. Ratisbon, in Bavaria, on the Danube,

p. 2,800.

Abaco, Great and Little, two of the Bahama Islands, the greater isl. (sometimes called Lucaya) has an area of 1,600 sq. m.; Litcie Abaco, lying to the N.W., is 26 mules long.

Abad, vel. on R. Theiss, Hungary, p. 2,700. Abadeh, t. in Persia, p. 4,500 [L. and R. in Abyssmia. Abat, t. and harbour on N. W. co.ist of Horneo; also Abate, t. in Brazil, flowing in R. San Francisco.

Abakan, R. in Sheria, affluent of the Yenses, from the Altai mitns.; also a fortified town on the R., p. 4, roo. Abalak, t ad t p. Abancay, t and prov in Peru, in the silver mine dis.

p. 6,500. Abanili, fortified / in N.E. Spain, p. 6,100.

Abano, c in N Italy, prov. Padua, sulphur waters and mud baths, p. 4,760
Abaro, mtss. in Assam, N.E. India.
Abart, R. in Britsh Guiana

[p. 50,000.

Abasia, A. in Ditush Guiana [p. 50,000.
Abasia, prev of Circassia, on E coast of Black Sea,
Abatamagormay, L. in N.W. Territory, Canada.
Abatsho, L. on R. Benne, W. Airica, p. 1,500
Abazai, fortified vt. N.W. Ind., on Swat R.
Abb, L. in Yemen, Arabia, p. 5,500.

Abb, t in Fymen, Arabia, p 5,500.
Abba Yared, with in Abysama, one of the Samen range, 1,508 ft high.
Abbazia, t, and health resort on the Gulf of Fiume,

Austria, p. 2,343
Abbeokuta, f. in W. Africa, 50 in north of Lagos,

p. 160,000.

Abbeville, co. and t. in South Carolina, U.S A.,

p. 45,000.

Abbeville, mftg c. in N. France, on the R. Somme. DOEVIIIE, mitg. c. in N. France, on the N. Somme, Has large factories for the manufacture of black cloths, velvets, cottons, linens, serges, hosiery, etc., station on the Northern Railway, and connected with Paris and Belgium by canals. Church of St. Wolffam, fine Gothic structure of the time of Louis XII, p. 20,058.

All, p. 20,056. Abbeygeale, par. and t. Linierick, Ireland, p. 916. Abbeygreen, vil. in co. Lanark Scotland, on the Nethan; sometunes called Lesmahagow, p. 1,450.

Abbeyleix, par. and t. in Queen's co., Ireland, p. 1/36.

Abiategrasso, A. N. Italy, prov. Milan. Has silk factorics, p. 12,000.

Abbitible, L. and R. in N.W. Canada.

Abbatibbl, L. and R in N.W. Canada.
Abbotsbad, f British India, hendquarters of the
Hazara dist of the Pinitab, p 10,000.
Abbotsford, residence built by Sir Walter Scott, on
the S. bank of the Tweed, about 3 m from Melrose,
co. Rozbungh.
Scotland, p. 7,500
Abbotshall, far. now merged in Kirkaldy and
Dysart, Stotland, p. 8,659
Abbot's-Langley, v.d. and par. in Herts, birthplace of
Nicholas Breakspeare (Adrian IV.) the only Englishman ever raised to the Papacy.
Abb's-Head, a promontory at the entrance to the
Firth of Forth.
Abda. #prov. W. Africa, on the Morocco Coast.

ADD'S HEAR, a promonitory at the entrance to the Firth of Forth.

Abda, prov. W. Africa, on the Morocco Coast, Abde-lekur, til. in Indian Occan, p. 250.

Abdelekur, til. in Indian Occan, p. 250.

Aberavon, parly, and municipal bor in Glamorganshire, Wales; on K. Avon, 8 m. E. of Swansea, large coal and iron mdustries. Has a good harbour, Port Talbot. As one of the Swansea dist, boroughs returns a member to Parlt. in 1.2556. a member to Parkt, p. 73,506.

Abercarn, mming & co. Monmouth. Ten in, N.W. of

Abercarti, initing f. co. monitoria. Let m. 2008.
Newport, p. 16,445.
Aberchirder, par of Scotland, co. Banff, p. 1,048.
Aberconway.—(see Conway.)
Abercorn, par. in co. Limithgow, Scotland, on the Forth. Roman wall bank by Antonina-shegan here, and extended to Kirkpatrick on the Clyde, p. 933.
Aberdare, f. in Glainerganshire, Wales, on the R. Cynon, 4 in. S.W. of Merthyr Tydvil; valuable coal and fron midistries. p. 50,844.

Cytion, 4 in. 5. W in secrity 1 years, valuations command from industries, in 50.844. The particular state of the secretary and ref. in Carnaryonshire, Wheeless, Not Scotland "the grante city" laneous for its Diwersity and him bindings. Has large textile the secretary and him bindings.

industries, p. 163,084

industries, p. 163,684
Aberdeen, intounskip on Hinter R, 159 m. N. of
Sydney, N.S.W.
Aberdour, There are two pars and rais, of this
name in Scotland, one in co. Aberdeen, the other in
co. Fife. The latter, the smaller of the two places,
is in regnite for its sea-butting.

Aberdovey, spt. M. rionethshire, Wales, p. 1.750 Aberfeldy, post t., 150 m. from Melbourne, Victoria Aberfeldy, t. m. Pertiishire, famed for its "birks,"

p 1,592 Aberffraw, par and val. nr. Holyhead, Wales, p. 1,000 Aberford, val. nr. Tadcaster, co York, p. (reg. dist.)

Abergolde, har, and ry can in Pertishire, p. 1.1.17
Abergovenny, r in Monnouthshare on the R. Usk at a point where it is joined by a stream called the Gavenny, p. 8,711
Abergolde, the name of a royal residence on Deciside, Abergole, small watering-place in co. Denhagh, Wales,

P 5.572. Aberlady, 74% in Scotland, co. Haddington, p. 963.

Aberlour, par and r) star, co. Banff, p 2.644.

Abernethy, t in Pertheline on the right bank of the Tay, 7 m below Perth; once the cap, of the Pictish Abert, L. in Oregon, U.S.A.

Abert, L. in Oregon, U.S. A.
Abertan, L. Bolemia, p. 4,000.
Abertan, L. Bolemia, p. 4,000.
Abertan, L. Rolemia, p. 4,000.
Abertyschan, L. Monnouth, ur. Pontypool, p. 24,66x
Aberyschan, L. Monnouth, ur. Pontypool, p. 24,66x
Aberystwith, order and open annual-cturing par. of
Monnouthshire, p. 57,671.
Aberystwith, p. Mr. and op. in Cardiganshire, Weles,
municipil and parly for situated about the centre
of the coast-line of Cardigan Bay. A penalar watering place, with fine seeners in the neighbourhood,
including the Devil's Bridge, p. 54,12,
Abeabr, L. Soudan, cap of Wadal, p. 10,500.
Abingdon, J. in Berkshire on R. Thanies, 7 in. S. of
Oxford. Was an important town in the days of the
Heptarchy, and was uncorporated by Queen Mary,
Parly and municipal bor., p. 6,870.

Abington, vil. in Scotland, co. Lanark. There are places of the same name in Northanpionshire and in Cambridgeshire (Great and Little Abunyon), and in Cost. Innertic and Tipherry, Ireland; as well as in Plymouth or, Massachusetts and Washington co., Virginia, U.S.A.

Virguna, 0.53.4. Abitaman, 7 in Madras Presidency, p. 7,500. Abitada, sait 7. in Atghamstan, in Gharzi. Abo, 374. jornierly capital of Fuland, European Russa; industris; tunlier, pitch, and tar'p. 34,564. Aboh, 7 on N.ger, Africa, 80 in from the coast;

Aboh, f. on Niger, Amery, West Africa, p. 6,000.
Abomey, ap of Dahomey, West Africa, p. 6,000.
Abou-Arish, walled t in Arabia, p. 8,000.
Aboukir, t and bay on the coast of Egypt. Lord Nelson different fer rench fleet here in 1798.
Aboyffe and Gleintanner, pars, vol. and ry. str. in. Rallater, Aberdeenshire, p. 1,255

Abiaham, Plains of, in. Quebec. Wole's victory, Abrantes, t in Estremalica, fortingal, on the Tagius, p. 2,000

Here the French were gallantly resisted by immes, p. 4,978.

p 7,000 Here the French were gallantly resisted by Wellington in 18-9.

Abrudbanya, 7 in S. E. Hin gare, fumors to its gold Abrudzai and Molise, a mer of Italy on the Adriatic, including the provs of Aquit. Texano, Chieti, and the state of the providence and shalf million.

Campobas o, p. nearly one and a half milhous, Abu, famous min resert, 5,650 it alt in Rajputana,

N. Ind.; Abu-Arish, et al. Arabia, on the borders of Red Sea, Abu-Klea, et et R. Nile, r. Sondan, British victory over Michaels, Jan. 17th, 1863.
Abury, 18 and 18

Abury .- ( ee Avebury ) Abydos, a ramed c in upper I gypt, celebrated for its temple of Osnis; also an ancient castled c in Natoha on the Dardanelles, which desperately resisted Pulho of Macedon, and famous for the love story of Hero and Leander.

Abyssima, a sowerful country in Eastern Africa; part of an ent Ethiopa. Chief, Adowa, The total are of the Abys man Linput, as reconstructed under the Finperor Menchk, is 320 0.00 q in., it time inflions Acadia or Acadie, of Acade, old French maine of Nova Scotia.

and New Branswick

Acaputa, 57. San Salvador, Central America Acaputa, 57. San Salvador, Central America Acaputa, 57. San Salvador, Mexico, p. 6,000. From this castled port the Stamen galloons in old days sailed wan the wealth of the West Acari, r and R in Peru, p. of town, o oor.

Accariants, with Altula, 2000, of Greece, cap. Missolough, p. 140,000.

Accadia, / in new of Avellino, S. Italy, p. 4,800.

Accatting, / in Naples, in Potenza, p. 4,750.

Accar, / and British settlement on the Gold Coast, W.

After A. Settled from many of After Assets of Settlement. Africa, seat of government of the Colony, p. 17,892 Accrington, mitg. I, in Lancashne, 22 m. N. Man

Acterington, ming t in Landashine, 22 n. N. Man chester, p. 45-64.

Acterno, t in Italy, prov Bashinato p. 4,500.

Acterno, in Italy, prov Salerno, p. 411.

Acterna, in vervancient t in S. Italy, in m. N.T. of Najiba p. 15,400.

Achalai, with Lilbs, prov. Greec. p. 20,500. Chief t. Achalaik, fortithed t. Kussa, government. This.

Acheen, and state N.W. of Sumatra, E. Indies;

Achenkol, Indian 2n., pass and temple, I rivancore, Acheron, R. and post 2., 75 m. N.L. of Melbourne,

Achill, Ise and Head, off the W coast of Ireland, co. Mayo, p. 4,657. Head, a n.a it above sea-level. Achiras, c. Argentina, 300 m. N.W. Buenos Ayres, in

Achiras, 7. Arjentina, 300 m. N.W. Buenos Ayres, in silver immig dist.
Achonry, par in co. Slogo, Ireland, in 10,500.
Achray, Loch, 7. and small 7. in Perthshire, Scotland, 27 m. N.W. of Stirling
Achross, Point, in C. in Cadway, Treland
Achtyrka, 7 m. Kharkov, Kussia, p. 24,500.
Acidar, R. in Greece
Ac

D. 2 C.Y.

Aconcagua, min., one of the Andes of Chili, S. America, alt. 23,910 ft. Also a prov. of Chili, p. 113,156, cap. San Felipe.

Aconquija, wuw. range in Argentina between Cata-marca and Tucuman.

marca and aucuman.

Acquariva, f. in S. Italy, prov. of Barl, p. 8,000.

Acqui, an ancient walled f. in N. Italy, prov. Alessandria, p. 13,786, famous for its cathedral, sulphur baths, and silkworm industry.

Acte, c. and spt. of Syria, key of Palestine, famous for its many sieges during and since the Crusades, p. x1,000, principally Moslems. Acton, c. in co. Middlescx, Eng., residential suburb of

London, p. 57.523.

Actopan, t., R. and dist. in Mexico, State of Hidalgo, Ada, vil., Ohio, U.S.A., p. 3.100.

[p. 12,000.

Adalia, spt. and very ancient t. on S. coast of Asia Minor, p. 30,000.

Minor, p. 30,000.

Adamawa, country of W. Africa, divided between Brt. Northern Nigeria and the Cameloons; area, Adam Bay, N.W. coast of Austraha. 19,000 st.nn. Adams, nitg. t. in Mass, U.S. A., p. 11,134.

Adam's Haland, one of the Marquesas group, just below the equator in the Pacific.

Adam's Peak, coincid sacred min. in S. Ceylon, alt. Adamson Peak, min. in Southern Tasmana.

Adam's Run, t. in Colletin co., S. Carchina, p. 5,000.

Adamstown, val., Northumberland co., N.S. W., 8° m. N. of Sydney.

N. of Sydney. Adams, Prov. in Asiatic Turkey, including the ancient Ciclia, p. 405,000; cap. Adams, p. 31,000. Adams, tk. f. in Ireland, co. Linierick, p. 500. Addams, R. in N. Italy, affluent of the Po. It drains L. Como

Addanki, t. in India, Madras pres., p. 6,500.
Addingham, val. W. Riding of Yorks, p. 2,450.
Addington, a co. in the prov. of Ontario, C Several parishes in England are thus rained; one nr. Several parishes in England are thus rained; one nr. Croydon, in Surrey, was the seat of an Archiepiscopal palace.

Addison's Flat, mining £ in N. Zealand, p. 2,500.

Addel, Lough, in Co West Meath, Ireland.

Addle, or Adel, x²l. ur. Leeds, in W. Riding of Yorks, famous for its Roman remains and fine old Norsear-abuseh.

Yorks, famous for its reconant canadas and mine one Norman church.

Adelaide, cap. of S. Australia, on Torrens R. named in honour of Queen of William IV.; p. with suburbs, v62,094. Possesses a fine university

Adelaburg. A in the prov. of Canuola, Austria, 20 m., N.E. of Trieste; lamous for its extensive grotto and

N.E. of Triesie; lainous for its extensive grotto and stalactic caverin, p. 3,056.

Aden (with Perim), small \$z', and **ryportant British coaling station on S. coast of Arabia at entrance of Red Sea, p. 46,05.

Adenau, t. in Rheinish Prussia, p. 1,500.

Aderan, t. at foot of Eina, Sicily, p. 25,873.

Adforton, \$zz\$, in Ludlow in co. Hereford, p. 250.

Adjige, R. in W. Italy, enters Adrait N. of Po.

Adjirondacks, Mrs. in New Yurk State, Highest peak, Mr. Marcy & doe ft. In this tener isses the Mt. Marcy, 5,402 ft. In this range rises the R. Hudson.

R. Hudson.

Adjai, R. in Bengal, India, joins the Bhagirathi.

Admiralty G., N. W. of Western Australia.

Admiralty Inlet, Washington Territory, U.S.A.,
opening to Piget Sound.

Admiralty Isls., S. Pacific Occan, N.E. of New
Guinea, comprise some 40 small islands, abound in
cocos-nut trees, belong to Germany.

Ado, t. on Slave Coast, W. Africa, p. 3,0,000.

Adonal, t. Madras, India, p. 26,000.

Adonal, t. in Hungary, on R. Danube, p. 4,577.

Adour, R., 280 m. in S.W. France, rises in Pyrenees
and after a course of 200 m. enters B. of Biscay
below Bayonne.

Adowa, or Adus, t. Tigré, Abyssinia, alt. 6,000 ft.;

below Bayonne.

Adowa, or Adua, t. Tigré, Abyssinia, alt. 6,000 ft.;

145 m. N.E. Gondar. Here the Italians were decisively defeated in 1896 by King Messells, p. 3,000.

Adra, spt. t. in Spain on the Mediterranean, p. 12,000.

Adramyti, spt. of Asia Minor, nr. Smyrma; exporta
olives, wool, etc., p. 5,200 in prov.

Adria, spt. Rovigno, Italy: formerly on coast, now

4 m inland. An old Etruscan c., p. 16,500.

Adrian, c. in Michigan, U.S.A., 73 m. W. of Detroit,

p. 9.654.
Adrianople, c. European Turkey, prov. of Romella, on the left bank of the Maritza, founded or greatly developed by Emperor Hadran, in 125. From 1364 to 1453 residence of the Sultans, p. of prov. 1,006,500,

to 1433 residence of the Sultans, p. of prov. 1,006,500, of city, 70,000.

Adriatic Sea (area 2,000 sq. m., length 450 m.), a branch of the Mediterranean, between tally and Turkey. Forms the G. of Venice on the N.; chief trading ports, Venice, Trieste, and Ancona on the N. and Brindisi on the S.

ann smaais on the S.
Adrigole Harbour, in Cork, Ireland.
Adrigole, pare, co. Galway, nr. Dunnore, p. 2,000.
Adullan, ddr. Palestine, S.E. Jerusalem. Here was formerly the Canaante city and cave which furnished David with his hading place from King Saul.
Advr. R. 20 nn. n Sussex, flowing into English Channel.
Advent, vid. nr. Camelord, co. Cornwall.

Advent, vil. nr. Camellora, co. Comwan.
Adventure, B., on the E. coast of Brune Isl., nr. the
Court extremity of Tasmania.

[Channel.]

Advocate Harbour, 39t Nova Scotia, on Minas Adwalton, hamlet in Drightlington township, nr. Bradford, W.R. Yorks. On Adwalton More Fairfax was defeated by the Royalist forces under Lord Newcastle in 1642.

Aegades, group of rocky fife, off W. coast of Sicily, chief t. Faviguana, on isl. of that name, p. 5,000.

Aegean Sea, a branch of the Mediterranean, studded

with als, between Greece and Asia Minor, called the Archipeligo,
Aegina, isl. of Greece, in G. of same name, p. 6,000.
Aeroe, isl. in the Baltic, off the coast of Denmark,

p. 12,000.

Aerschot, f. in Belgium, prov. S. Brabant, p. 4,800. Ætolia. (See Acarnania.)

Atolia. (See Acaramia.)
Afghanistan, mountainous country N. of Baluchistan, between Persia and India. Important as "buffer state between British and Russ dominions. Chief towns, Kabul, Herat, and Kanduhar. The principal rivers are the Kabul and Helmund, 500 m. N. to S. 600 inlies from Herat frontier to khabur pass; 278,000

sq m.; p. four to five millions. [Minor, p. 1,800. Afiun-Kara-Hissar, c. important trade centre of Asia Afragola, Neapolitan infing. t. (straw hats, etc.).

p. 20,336.
Africa, the second largest continent, area 12,000,000 sq.m. The Mediterranean separates it from Europe on the N., the Red Sea and the Indian Ocean he on the E., the Southern Ocean on the S., and the Atlantic on the W. Ajjoins Asia at the Isthmus of Suez. Nearly the whole of this continent has been Suez. Nearly the whole of this continent has been partitioned among various European powers. England is the dominant power in the S., centre, and E., and France in the N. and W.; p. estimated about 200,000,000. The only independent states in Africa are Abyssinia and Morocco. British possession or control extends to Egypt. Anglo-Egyptian Soudan, Gambia, Sierra Leone, Ashantee, Goltony, Yomba, Lagos, Nigeria, Rhodesia, Transvaal Colony, Orange River Colony, Bechanand, Natal, Cape Colony, Zauzibar, Uganda, and Somaliland. All kinds of bug game except the tiger are found in Africa. land, Natal, Cape County, Antzinar, Oganus, and Somaliand. All kinds of bug game except the tiger are found in Africa.

African Isles, group of low-lying islets in Indian Ocean.

Afradagarh, t. in India, N. W. prov., p. 8, 150.

Agades, eap. of Air or Ashen onsis, Saliara, p. 16,000.

Agrapara, t. nr. Calcutta in India, called also Distrackpuir, p. 30,000.

Agrassiz, 214. and 219. 509. on Central Pacific line Canada, 380 m. W. of Donald.

Adge, 346. t. in France, dept. Hérault, p. 8,500.

Ageles, two separate parishes in co. Chester, one nr. Knutsford, the other nr. Malpas.

Agen, t. on R. Garonne, cap. dept., Lot-et-Garonne, 89. m. from Bordeaux, p. 22,000.

Ageroe, a Norwegian 512. off the West coast, prov. Trondhjem, p. 4,500.

Aghabog, par. in co. Monaghan, Ulster, p. 5,000.

Aghery, Lough, in co. Down, Ireland.

Aghery, Lough, in co. Down, Ireland.

Aghris, Point, a C. in Sligo, Ireland.

Agiacourt, wil in the dopt. of Pas-de-Calais, France, from the for battle in Luty between English, led by Henry V., and French under d'Albert. Agira, or San Flippo d'Agira. J. Sicily, p. 15,000.
Agnes, St., par. nr. Truro, co. Comwall, once fumous for its "Bioly" well, p. 6,000.
Agnese, £ in S. Italy, prov. Campobasso, p. 6, co. Agrae, c. on Juma kl., N.W. prov. India, Rengal, Pres., 140 m. from Delhi and 840 from Calcutta formerly cap. of Mogul Empire. Fauned for its white marble mausoleum misid with preckous stones where the Emperor Slash Jalian and his favourite wife are buried. It occupied 22 years in building and employed 20,000 men continuously, p. 182,469.
Agram, or Zagrab, c., cap. of Croatia and Slavonite, Austria, on R. Save, has important manufactures, and a University p. 57,030.
Aguadilla, p.f. in Puerto Rica, p. 17,000.
Aguas Callentes, c. and State in Moxico, 6,000 ft. above sea, famous for hot springs, p. (of city) 40,000.
Aguallas, f. and port of Spain, on the Mediterranean, p. 3,000.

Southerly pt. of Africa
Agulhas, C. 100 m. E. of Cape of Good Hope, most Alien, f. in Westphala, p. 4,000.
Abmedabad, c. and div.f., Guzerat, India, 200 m. from Bombay, p. (of c.) 170 coo.
Ahmedapar, or Dowlatabad, c. in Deccan, 120 m. 6.0 ft. of Mendapar, or Dowlatabad, p. 100.
Ahmedopur, f. m Punjab, India, p. 10,000.

p. 45,000.
Ahmedpur, A. m Punjah, India, p. 10,000.
Ahmedpur-Barra, A. m. Bahawalpur, N. India, Ahwuz, A. m. Persia, formerly the winter residence of the Shah.

Aidone, t. in Sicily, prov. Catania, p. 8,000 Aiguillon, L. in France, dep. Lot-et-Garonne, Aigun, L of Manchura, China, on bank of Amur K.;

centre of "Boxer" rising it 1900, p 20,000.

Allac Craig, tocky 181. of Ayrshire coast, alt. 1,114 ft.

Ain, R. and dept. of L. France, mainly agricultural.

Annal, t. in Arabia, prev. Hadramaut, p. 10,000
Annal, t. in Arabia, prev. Hadramaut, p. 10,000
Annals, t. on N. frontier of Syria, indicary centre in the Middle Ages, many Armemans massacred there in [Derby hundred.] 1895, p. 45,000. [Derby hundred. Aintree, a suburban dist. of Liverpool in the W. Arr, or Asben, oasre in Sondan, cap Agade. Airdrie, untg. t. in N.L. Lanark, to n. E. of Glasgow,

p. 24,388. Airds Moss in S. Ayrshire, battle of Covenanters

Airds Moss in S. Ayrshire, battle of Covenanters fought on the moor, 7680. Aire (70 m), R in W.R. Yorks, 5rth. of Ouse. Aire, two L's in France, one. cplscopal, dep. Landes. p. 5,000; the other, forthfiel, dep. Pas-de-Calan. p. 5,500. Iof Airlie, p. 723. Airlie, t. in Forfar, Scotland, castled seat of the Earls Airlie, p. 721. Airlie, p. 722. Airlie, t. in Forfar, Scotland, castled seat of the Earls Airlie, p. 300. D. h. h. N. E. France, r. tho. of Oise; also sugar-growing and agr. dep., p. 534,204. [p. 36,000. Airall, t. f. in the Levant, opposite is l. of Mitylene, Air, mftg. t., France, 17 in N. Marseilles, p. 30,000. Airalla-Chapelle, cathedral c. Rhen. Prussa, 44 m. from Cologne, celebrated for its baths, p. 135-25. Aira-les-Bains, health resort, Savoy, France, residential, p. 5,000.

dential, p. 5,002. Health resort, Savoy, Prainte, 20,770 Ajaccio, car. of Corsica, birthplace of Napoleon, 1762, Aalgarh, native State, tentral India, arca 800 sq m. p. 93,048. Adm, or Guzel-Hissar, t. in Asia-Minor, 8t m. from

Again, or Guzel-Hissar, t. in Asia-Minor, 8t m. from Smyrna, Exports ramins, figs, etc., p 38,000. Aymer-Merwara, c. and prov. in Rajputana, British India, p. (of c.) 86,973; (of piov.) 501,395. Aymer suffered severely from the lamino of 1890-1900, more than a fourth of the population receiving relief.

Aiuruoca, t. in Brazil, prov. Minas Geraes, p. 18,500.
Akabah, harb, and t. at N E. of Red Sea. Was, in the tool, century, as Halia or Alici, the great port of Palestine.

(1968 and, p. 80,000 and p

Akerman, Russ. t. on Black Sea, at mouth of Dniester, p. 28,303, or, including the suburbs, 40,000.

Akhaltsykh, fortified Russian 4. in Transcaucacia, p. 15,387, mainly Armonan.

Ak-Hissar, t. in Asia Minor, 50 m. N.E. Smyrna. The ancient Thyatira, on the Roman road from Pergamos to Laohicea, p. 13,000. [522,96 in dist Akola, t. and dist. of Berar, India, p. 21,000 in t. and Akron, mfg. c., Ohio, U.S.A., cap. Summit ee, p.

69,767. [p. 15,000. Ak-Shehr, t in Asia Minor (the classical Philometical). Ak-Su, t and k. in Eastern Turkestan. The town is walled, and forms an important trading centre on the caravair route, p. 30,000 The R. Ak-Su, rising in the Tian-shan mins. runs into the Tarim.

Alabama, state, U.S.A., c.p. Montgoinery, chief.

port, Mobile, minerals, cotton, sigar, 52,250 Sq. m.,

port, women, innerials, cotton, signi, 54,55 ed. de., p. 1,828,557.

Alabama, K. in N. America, length over 600 m., Montgomery, the State cap. of Alabama, is situated on as banks. Navigable for half its length by large

Alabaster, one of the Bahama isls, famous for pineapples and fine gypsum rock.

Alagoas, maritime prov. Brazil, the chief c. is also named Alagoas, p. 30,000.

named Alagous, p. 30,000.
Alais, t. in Cevennier dist, dep. of Gard. France, extensively engaged it sericulture, p. 26,000
Alageula, c. and \$rrow, of Costa Rica, p. (of cap.) 3,000.
Alameda, c. Cal. U.S.A., p. 20,000, also an old Andalusan I. in Spain, p. 4,300.
Aland, Isles, a group belonging to Russia, at the entrance of the Guit or Bothma, p. of group, 15,000.
Alapur, r. in the N.W. prov. of Italy, p. 57.
Ala-Shehr, C. in Anatola, Asiatic Turkey, anciently called Philadelphia, p. 22,000

called Philadelphia, p. 22,000

Alaska, U.S.A. eer., 550,000 sq. m.; bought from Russa in 1957; chief softlement Stika, largest t. Juneau on U.S route to Kloindike, p. 63,392.
Alaska, v. m. eema, N. Italy, p. 5,250.
Alaska, m. mr tanges in Aslatic Russia.

Ala-tau, m/m ranges in Asiatic Kussia.

Alatri, t in Italy, prov. Rome, p. 13,500. [p. 11,500.

Alatry, t on the Sura (a trib. of the Voiga) in Russia,

Alava, a Basquo prov. in N. Spain, chief t. Victoria,

p. 95.000.

Alba, t in prov. of Cuneo, N. Italy, p. 12,500; also a t.

Albacete, t and prov. in S.E. Spain, p. (of t.) 22,000,

tof now 1 and prov.

(of prov.) 240,000.

to prov. 240,000.

Albania, m to May, 1013, a prov. of Europ Turkey now at matependent state, bounded on the east by Servia and on the west by the struct of Otranto ceded by Turkey after the Balkan War of 1912-13.

ceded by Jurkey after the Bilkan War of 1932-13, area, abi 12,000 sq. m. ip 200,000 aprings
Albans, c. m. Rome, Iruy, bay saline springs
Albans, St., cathe irad c. Herts, Fig., p. 18,722,
Albany, St. n. cap of Now York, U.S.A., situated on R. Hadson, n. n. c. 23; ibo. c. Oregon, U.S.A., also t. Georgia, U.S.A., also t. Georgia, U.S.A., also t. Georgia, U.S.A. also t. div. of Capie Colony, S. Africa, also spot t. m. West Australia, p. 4,000.
Albay, f. Luzon, Philippen Isl., p. 34,000.
Albay, f. Luzon, Philippen Isl., p. 34,000.
Albay, f. Luzon, Philippen Isl., p. 34,000.
Albemarle, Isle, the largest of the Galapagos in the Dartiff (Foots, all Summits, 5 webove sea-level)

Alberta (2) was a min, per min

P 24 0.00 Albert Edward Nyanza, one of the Nile basin lakes of Equatorial Airica Diamed by Semilke K. Length so m., width as in all, 3,200 ff.

Albert Nyanza, another great reservoir of the White Nile extreme langiti room, gent breadth so in alt 2,10 ft. Greater particishores of this L. Alito British. E. Africa, Uganda Protectionate [Austraha, p. 250.

Alberton and Queenstown, source of Adolade, S. Albi, ear of Tarn dep. France, p. 20,000 Albia, A. ap Meuroe ec., Iona, U.S.A., p. 2,500 Albion, an Meligian, U.S.A., p. 5, 500 Albion, Park, A. to Canden, N.S. W., p. 1,100.

Albox, 2. Spain, prov. Almeria, p. 17500 Albuera, cog. ni. Badaros, in Estremadura, Spain-French del, by Bri 1870, in Estremadura, Spain-Albula Pass, Portugol, prov. Algarres, p. 500 Albula Pass, Alps, Canton Groons, leading to Up

Fine admic Albunol, A in S. Spain, 45 m. S.L. Granada, p. 10,000.

Albuquerque, t. In Spain, 25 m. N. of Badajoz, p. 8,000; also C. of New Mexico, U.S.A., on Rio Grande R., p. 6,038.

Albury, t. on Murray R., N.S.W., p. 6,000; there are also English parishes of this name, in the co.'s of Surrey, Oxford, and Hertford Alcala de Ovasdaira, t. nr. Seville, Spain, p. 20,000.

Alcala de Henares, t. in Spain, 20 m. E. of Madrid, p. 14,000.

Alcala de Los Gazules, t. in Spain, 20 m. E. of Madrid, p. 14,000.

Alcala de Los Gazules, t. in Spain, 20 m. E. by S. of Alcala is Real, t. in Andalusia, Spain, p. 15,000.

Alcambe, t. in Sicily, 50 m. S. of Palermo. Originally a Saracenic t. producing wines, p. 5,1814.

Alcandete, t. nr. Jean, Spain, p. 5,1814.

Alcandete, t. nr. Jean, Spain, p. 10,000.

Alcantara, fortified t. in Spain on the Tagus, p. 11,000.

p. 11,000. Alcazar de San Juan, t. nr. Ciudad Real, Spain,

Alcazar de San Juan, t. nr. Ciudad Real, Spain, p. 10,000.
Alcester, t. in Warwickshire, Eng. Needle and fishhook mfers., p. (of rural dist.) 17,868.
Alcha, t. in Spain, 20 m. S. of Valencia, p. 20,000.
Alciston, par. nr. Lewes, co. Sussex, England.
Aldoy, t. 25 m. N. of Alicante, Spain, p. 32,000.
Aldan, navigable R. (300 m.) of Siberia, and min. range surrounding sea of Okonist, average alt. 4,000 ft.
Aldborough, vt. in W.R. Yorks, nr. Boroughbridge, the Issurium of the Romans, also par. in Holderness, E.R. Yorks; also township in N.R. Yorks, nr. Richmond; also par. nr. Ayleshan, co. Suffolk.
Aldeburgh, wat. place in Suffolk, 30 m. from Ipswich, p. 2,274.

D. 9,374
Alderney, most N. of the Channel Islands, 8 m. in circumterence, 30 m. off English coast, and 10 m. W.

of C. La Hague, p. 2,000.

Aldershot, t. in Hants, prin, milit, camp in England, Aldinga, t. in. S. Australia, nr. Adelaide, p. 1,050.

Addston Moor, t. in Cumberland on Northumberland

border, p. 5,000. Alemoor, Loch, co. Selkirk, Scotland.

alemoor, Loca, co. Seikirk, Scotland.

Alemquer, sm. t. in Estreniadura prov. of Portugal; also t, on the Amazon R. in Brazil, p. 3,500.

Alemtejo, maritime prov. of Portugal, 9,380 sq. m., p. 400,000.

Alemoon, cap. Orne dep., France, on R. Garthe, Alepō C., Southerly point of Asia Minor, at mouth of Algran Sea, opposite Isle of Rhodes.

Alepho, c. chief trade centre in N. Syria, Turkish.
Earthquake in 1880 killed 20,000 persons, p. 127, 150.
Aleahki, c. in Russia, on the Dnieper, opposite

Kherson, p. 10,130.
Alessandria, c. in N. Italy; cap. of the prov. of the same name, on the Tanaro, 46 m. E. of Turin, near Marengo; Napoleon's victory in 1800 over Austrians;

Marengo; Napoleon's victory in 1800 over Austrans; p. 70,000.

Alesaio, t. nr. Scutari, European Turkey, p. 3,510.

Aleutian Islas, chain of Islas between C. Alaska and Kamchatka. The Fox Islands form a portion.

Alexandra, mining t. on Goulburn R., Victoria, 50 m. N.E. of Melhourne.

Alexandra Nile, K. of Equatorial Africa, affluent of Victoria Nyanza, one of the chief feeders of the Nile, traverses a lake of the same name.

Nile, traverses a lake of the same name. Alexandretta, prin. perro of the Aleppo vilayet, p. 8,000. Alexandria, chief port of Egypt. The city was founded by Alexander the Great in 329 E.C. Forts destroyed by English Fleet in 1882, p. 330.000; also t. Scotland, Dumbartonshire [p. 8,399; also in U.S.A., c. on R. Potomac, Vinginia [p. 14,538]; t. in Louisland p. 56,88; and c. of co. Madison, Indiana; also t. in Roumania, nr. the Danube (p. 15,569;) also dist. in Rusia, on the Ingulets, nr. Poltava (p. 14,500). Alexandrina, a L. in S. Australia; the Murray R. falls into by

into it.
Alexandropol, f. in Russian Armenia, p. 30,477.
Alexandrov, f. in Govt. Vladimir, Russia, p. 7,200.
Alexandrovak, fortified f. on the Dneiper, Russia, p. 16,500.
[Aberdeenshire, Scotland, p. 1,464.
Alford, f. Lincolnshire, Eng., p. 2,394; also par.
Alfortville, f. in France, dep. Seine, p. 12,614.
Alfred Port, in C. Colony, 88m. S.E. of Grahamstown.
Alfreton, industrial f. in Derbyshire, Eng., p. 19,049.
Algarve, most southerly prov. of Portugal, ered.
1,878.08, m. p. 24,049.

1,873 sq. m., p. 254,307.

Algebras, t. in Spain, prov. Cadiz. on Gibraltar Bay,

Algeria, N. African prov. of France, bounded on the N. by the Mediterranean, W. by Morocco, S. by the Great Desert of Sahara, and E. by Tunis; area

255,000 sq. m., p. 5,672,842.
Algezira, dist. in Asiatic Turkey, between the Euphrates and the Tigris.

[p. 10,000.

Algesira, dist. in Asiatic Turkey, between the Euphrates and the Tigris.

Exphrates and the Tigris.

Exphrates and the Tigris.

Exphrates and the Tigris.

Exphrates and naval pt. of Algeris, strongly fortified; great trade centre, p. 140,000.

Algoas Bay, about 425 m. E. of the Cape of Good Hope, Port Elisabeth chief seaport.

Algoma, dist. Ontario on L. Superior and Huron; area 170 st. m., p. 25,670.

Algona, t. Iowa, U.S.A., p. 3000.

Alguada, reef in Bay of Bengral, off coast of Pegu.

Alkama, c. in the prev. of Granada, Spain; noted for its hot springs, p. 8,500. Also t. in the prov. of Murcia, p. 8,350.

Granada, Spain; albama, c. in the prev. E. Spain, noted for its wine, frutts, and muerals; p. (prov.) 300,000, (of t.) 15,140.

Alicante, t. and prev. E. Spain, noted for its wine, frutts, and muerals; p. (prov.) 300,000, (of t.) 15,140.

Alicant, westermost of the Lipari Isla. N. of Sicily, 4. m. long.

Aliga, Jast. Merut, N.W. prov. Brit. India, between Ganges and Junna, p. 1,203,047. Chf. c. Aligarh (also known as Koll), 876 m. from Calcutta, p. 70,127.

Aligo, Jast. in the Pacific. W. of Lower Carolies.

Aligarh, dist. Merut, N.W. prov. Brit. India, between Ganges and Jumna, p. 1,203,047. Chf. c. Aligarh ialso known as Koll, 876 m. from Calcutta, p. 70,227. Alijoa, Isks. in the Pacific, W. of Lower Carolina. Alima, R., Central Africa, trih. of Congo, discovered by Brazza, 1878. lagency, area 837 sq. m., p. 72,000. Alirajpur, native state of India, under Bhopawar Alisse, t. in dep. Côte d'Or, 30 m. N.W. of Dijon, usually identified with Alesia, the ancient cap. of Central Gaul.

Aliwal, North and South, tos. in Cape Colony, N. Aliwal is on the Orange R., and S. Aliwal on

N. Aliwal is on the Orange R., and S. Aliwal on Mossel Bay.

[Sikhs, råd.
Aliwal, t. in N.W. prov. india, Brit. victory over Alkham, p.r. in co. Kent, Eng. in. Dover, p. 650.
Alkmaar, t. on N. Holland Canal, 20 m. from Amsterdam, p. 18-275.
Alkrington, a factory township, 5 m. N.E. of Alkshabad, cap. of N.W.F. India, 130 m. from Delhi, 560 m. from Calcutta, p. 175-748. Allahabad dist. contains close upon 13 million souls, and covers a area of 3.62 sq. m.; entire division comprises 17,265 sq. m., with a total p. of over 15 millions.
Allan, Bridge of, vz. in co. Perth, Scotland.
Allan, Bridge of, vz. in co. Perth, Scotland.
Alleghamy, R. U.S.A., joins the Ohio R., Pittsburg, Pa., 30 m. long.

Pa., 30 m. long.
Alleghany, or Allegheny, American iron and steel mig. 1. on Alleghany R., opposite Pittsburg, p.

190,000, Alleghany, or Appallichian Mins, a series of parallel ranges between Atlantic and Mississippl. Highest peaks, Black Dome, 6,707 ft., and Mt. Washington, 5,388 ft.

Allen, Bog of, a group of peat morasses in Kildare and Queen's co. s, Ireland, 37s sq. m. in extent. 1sl. of Allen is a village 3 m. N. of Kildare, and Allen Lough, a L. with an area of 8,000 acres, in co.

Leitrim, one of the sources of the R. Shannon.
Allendale, min. ¿ Northumberland, Eng., p. 4,970;
also a ¿ in S. Carolina, U.S.A., p. 3,050.
Allendorf, ¿ on R. Werra, Hexe-Nassau, Prussia, d.
Allenderfa, ¿ on the Alle R. in E. Prussia, é § m. S. of

51,03; also a Dorougn in anominous cos, Academy, p. 695.
Allequasi, R. in Northern Maine, U.S.A., branch of Aleppi, 59t. S. India, state of Travancore, p. 24,000.
Aller, t. in Spain, prov. Oviedo, p. 12,000.
Aller, dep. France, centrally situated, occupied by mining industry, p. 422,082.
Allier (230 m.), R. in Cent. France, trib. of Loire.
Alligator Swamp, marsh in N. Carolina, U.S.A., area

3,000 sq. m.
Alloway, bar, with rulned kirk, S. Ayrshire, Scotland, nate famous by Burns in "Tamo' Shanter."

Marie ramous by Birns in Tam o Shanter.
All Saints' Bay, karbour on Bahla coast, Brazil.
Allstedt, t. in Saxe-Weimar, Germany, p. 3,550.
Alma, R. in Crimea. Great victory over Russia by
Allies, 1854; also villages in S. Australia (nr.

Adelaide) and Victoria (nr. Melbourne); also isl. in Saguenay R., Canada. [English Crusaders, p. 8,000, Almada, f. on Tagus, opposite Lisbon, founded by Almaden, f. in Sierra Morena, Spain. The ancient Slaspon, famous for its quicksilver mines, p. 9,000.
Almagro, lace mig. f. Spain, 22 m. E. of Ciudad Real,

Alimagro, lace mig. t. Spain, 2s m. E. of Ciudad Real, p. 9,000.
Alimansa, t. in Albacete prov., Spain, p. 20,000.
Alimansa, t. in Spain, on R. Tagus.
Alimadas, Fortug, fort on French in the sand retaken by Wellington.

In Spain, prov. Beatagor with the sand retaken by Wellington.

Alimada, t. and met. prov. of E. Spain; p. 1200.
Alimadralejo, in Spain, prov. Beatagor wine and Alimada, t. and met. prov. of E. Spain; p. (prov.) 350,000 (of tow 46,600.
Almodowar, prov. of Cludad Real, Spain, p. 13,500; also a smill Spain, b. on the River Guadalquirir, almond, R. in Scotland, trib. of Tay, 1slos a second Alimadaduury, populous par, adjoining Huddensfield, W. R. Yorks, woulen mig., p. 24,734.

Alimondabury, vii. it Gloucestershine, Eng., Saxon Almondabury, vii. R. Gloucestershine, Eng., Saxon Almondabury, vii. a Gloucestershine, Eng., Saxon Almondabury, vii. a Viii. p. 8000.

Almora, 4. in N.W. P. India, p. 8,000; Almora dist, is in the Kumaun div. and lies among the mts. between the upper waters of the Ganges and the Gogra, area

5,416 sq. m., p. 465,576.

Almunecar, 596, in Spain, on Meditern., p. 8,500.

Almey, an ss. in R. Severn, nr. Gloucester, Battle between Canute and Edmund Iyonside, 1016.

Ainey, an i.i. in R. Severn, nr. Gloucester, Battle between Canute and Edmund Ironide, 2016. Almouth, watering place on Northumbrian coast, midway between Newcastle and Berwick, p. 593. Alweick, i. Northumberland, Eng., p. 7,041. Alora, i. in Spain, old prov. of Andalusia, p. 17,000. Alost, i. of Beigium, 17 m. S.E. of Ghent, p. 30,000. Alpena, c. on Thunder Bay, Mich., U.S.A., p. 172,000. Alpena C. on Thunder Bay, Mich., U.S.A., p. 172,000. Alpena C. on Thunder Bay, Mich., U.S.A., p. 172,000. Alpena Basses, Frontier dept. in S.E. France, chief. t. Digne, p. 172,762. Alpena-Hautes, S.E. dept. France; doming Alpena-Alpena-Maritimes, S.E. dept. France; formerly Nice, ceded by Italy in 1860, chief. t. Nice; p. 300,822. Alpa, highest mit., in Europe; foom long from G. of Genoa to near Vienna; 130 m. broad in Tyrol. The principal peaks are Mont Blanc (15,784 ft.); Mont Ross (15,217 ft.); Mont Cervin (14,717 ft.); Finster-aarhorn (14,006 ft.); Jungfrau (12,607 ft.); Monte Viss (15,85 ft.); and Mont Cenis (12,605 ft.) Hont Alpa, Alparalian, min. range between E. Victoria and N.S.W.; highest peak, Mt. Townsend, 7,350 ft. Alpa, Alparalian, min. range between Westland and Canterbury, Now Zealand.
Alsace-Lorraine, a prov. of the German Empire, total area, 5,601 sq. in. Taken from France in 1871, p. 1,319,451.

toral area, 5,001 Sq. III. I area 1700 France in 1871, p. 1,719,451.

Alsen, 517. on coast of Denmark, in the Little Belt, Alsfeld, sm. £ in Grand Duchy of Hesse, 4 r m. S. W. of Cassel.

Alsten, R. in Prussia, it joins the Elue about 70 m. Alston, market £ in Cumberland, Pearith Parly, div. Eng., p. 3,075. ip. 750.
Alstoneileld, par, in co. Stafford, Eng., on R. Dove,
Alstonville, post t. in N.S.W., 367 m. E.N.E. from

Alstonnie, post f. in N.S. v., 39 in Lands of Sydney.

Alt (or Aluta) R., an affluent of the Danube in Hungary (300 m.); also a R. in co. Lancaster, Eng., falling into the Irish Sea.

Altai, mar. S. Boundary of Siberia, from sources of Obl to Pacific, and extending more than 2,500 m. Out to racinc, and extending more than 3,500 m. Bleluka peak, alt. 12,956 ft.

Altamaha, R. in Georgia, U.S.A., flowing into Attamont, the name given to twelve different towns in as many of the U.S.A.

Altamonte Springs, a resort in Florida, U.S.A., Altamonte, A. South Italy, at foot of the Apanines,

Altamura, 6. Soun reay, at the control of p. 20,000.

Altar, sm. 6. and R. in Mexico, latter flowing into G. of California; also volcano in Eastern Andes of Ecuador, alt. 17,730 ft.

Altdamn, 6. on R. Oder, in N. Germany, nr. Stertin, Altdolf, sm. 6. in E. Prussia, nr. the Baltic Sea.

Altdorf, sm. 6. in Franconia, Bavaria, on R. Schwarzach, 13 m. S.E. of Nuremberg.

Altea, set. in Spain, prov. Alicante, p. 6.500. Altena, t. in Prussia, prov. Westphalia, p. 18,679. Altenburg, t. 122. of the Duchy of Saxe-Altenburg.

N. Gernany, p. 37,150.

Altenburg, commune of Prussia on the Rhine, embracing colonies of Krupp's workpeople, incorporated in

Autenburg, commune of Prussia on the Rhine, embracing colonies of Krupp's workpeople, incorporated in roor with Essen, p. 65,500.

[p. 29,5926.
Altenaseae, Colliery commune of Prussia, nr. ......
Altilla, sm. £. in Central Italy, abt. 20 m. North of Benevento, the ancient Sepnum, fortified by Nero.
Alton, c. Illinois, U.S.A., p. 14,210, also mkt. £.
Hants, Eng., p. 5,535. [adjoining Hamburg, p. 767, 597.
Altona, 3. Penn., U.S.A., Blair Co., p. 52,127.
Altona, p. Switzerland, cip, of the canton of Url, on R.
Reuss; here William Tell won independence for Switzerland, p. 2,905.
Altöfting, sm. £. in Upper Bavaria, on the R. Mörn, a famous resort of Rom. C. pilgrims.

Altrincham, £. Cheshire, Eng., 8 m. S. W. Manchester, and the R. M. and the Marting of the Colonies of the Col

[p. 19.571. Gleiwitz, Prussia. morass. Alva, per and L. in Scotland, co. Clackmannan, among the Ochi hills, p. 5265. Alva, per in Scotland, co. Clackmannan, among the Ochi hills, p. 5265. Alva, per in Scotland, co. Banff, beautifully situated on the R. Deveron, nr. the lofty hill of Alvah,

on the K. Deverou, in: the long has of Alvage, p. 1,220.

Alvarado, f. in Mexico, 60 m. S.E. of Vera Cruz, Alveratoke, par. Hants, Eng., including the town of Gosport, which see; p. 33,301.

Alverthorpe, populous suburb of Wakefield, W.R. Alvers, par. in Scotland, nr. Eigin, p. 1,300.

[D. 500.

Alvag, par. in Scotland, on the Spery, co. Inverness, Alvag, par. in Scotland, on the Spery, co. Inverness, Alvag, native state in India in Rajputana agency, area, acet so, ms. b. 83,488; cao, (same name), area, 3.051 sq. m., p. 88,488, i. cap, (same name), p. 50,740.

Alyth, *ar. and mfg. t. in Scotland, co. Perth, Alzey, t. in Hesse, on R. Selz, sacked by Spinola in

Alzey, f. in Hesse, on R. Selz, sacked by Spinola in 1620, p. 6620.

Amadeus, large salt L. in W. of S. Australia, 130 m. Amadeus, large salt L. in W. of S. Australia, 130 m. Amadeus, 12f. of Japan, prov. Higo, producing kaolin. Amaili, t. of Italy, prov. Silterno, p. 7,330.

Amara, f. on the Tigris, Asiatic Turkey, p. 9,500.

Amarapura, formerly cap. of the Burmese Empire on E. bank of Irawadi, now a sub-division of the Mandalay dist. Contains many pagodas and runad dwellings, p. of div. 62,310.

[p. 20,000.

Amasia, f. and trade centre Asia Minor, Siras vilayet, Amatongaland, Brit. dist. S. E. Africa, N. of Zululand, incorporated with Colony of Natal, 1827, area, ra.000 sq. m., p. (abt.) 100,000.

[lonian Islands, p. 6,500.

Amazon, K. S. America, largest basın and extent of water of any river in the world; rises among the Andes and flows 4,000 m. to the Atlantic. One of its

Andes and flows 4,000 m. to the Atlantic. One of its affluents, the Madeira, is 1,800 m. long, Drains

amuents, the stadera, is 1,800 m. long. Drains nearly three million sq. m.

Amazonas, most N. Frov. of Brazil, area 732,250 sq. m., p. 150,000; also an interior dept. of Peru, area,

1,504500, asso as menter uept. of reru, area, 15,045 et m., p. 74,50; also a territory in Venezuela, area 90,000 sq. m., with few civilised inhabitants. Ambala (or Umbala), dist. Punjab, B. India, area 4,014 sq. m., p. two millions. Also the name of the сар. с , р. 80,000.

Ambalema, A. on Magdalena R., Columbia, p. 23,000.
Ambalema, A. on Magdalena R., Columbia, p. 23,000.
Ambalema, A. on Magdalena R., Columbia, p. 23,000.
Ambalema, A. india, Madras Press., p. 3,500.
Ambalema, A. india, Madras Press., p. 3,500.
Amberg, A. in Bavaria, S. Germany, p. 22,039.
Amblest, A. in Bavaria, S. Germany, p. 22,039.
Amblested, A. in lake dist., Westmortand, nr. L. Windermere, p. 2,553.
Ambleteusedecayed p. in France, nr. Boulogne,
Amboles, A. in Centr. France, 15 m. E. of Tours,
famous for its castle and prison, p. 5,000.
Amboyna, Dutch A. and 16. in the Boluccas or Special
Isla, E. India, area of Residency, 19,840 84, m.,
p. 300,000; cap. protected by Fort Victoria, p. 30,500

Ambriz, coast & and dist. in Angola, W. Africa, [p. 12,500. p 6,000.

Ambur, Lin India, Madras Pres., 79 m. N. of Bangalore, America (area rof million sq. m., p. 140,000,000). The two wast div. of this continent are joined by the two wast div. of this continent are jound by the narrow lishmus of Panama. The most North point, Murchison, Penn., is over 9,000 m, distant from C Horn, the extreme S point. N. America has an area of 8,600,000 sts. m., being about 5,600 miles in length, and varying in breadth from 200 te 3,000 m. The three main divisions of N. Am. are the Pacific Slope, the Atlantic Slope, and the great central plan dividing them. S. America has an area of over 7,000,000 sq. in., and extends from north to South 4,500 mg, and at its widest pair has a broadth of

3.200 m.
Americus, c. of Georgia, U.S.A., p. 7,674.
Amerisort, t. on Ems R., Holland, p. 18,000.
Amerisham, t. m Bucks, England, p. 3,302
Ameabury, t. in Mass., U.S.A., 40 m. N. Boston,
p. 10,000; also par. m Wiles, Ling., within the
confines of which he the ancient British monuments

confines of which he the ancient British monuments of Stonehenge, p. 1,905.

Amhara, cent. 9702. Abyasinia, cap. Gondar.

Amhara, bat. 4, and dr.s. in Tennasserini prov. of Lower Burma; also spt. t. in Nova Scotia; also t. in Victoria; also a t. (with State Agricultural College) in Hampahire, co. Mass., U.S. A.

Amiens, on R. Somme, N. France; famous for its fine cathedral and velvet mits., p. 90,758. [of Seychelles. Amitante La., Brit. group in the Indian Ocean, S.W. Amite, R., running from Mississippi to Louisiana, U.S.A., 180 m.

Analweb, on N. coast of Anglesey, Wales, p. 2,720.

Assieveh, on N. coast of Anglesey, Wales, p. 2,720, Assimer, R., Wurtenberg, Joins Neckar nr. Tubingen. Ammergau.,—(See Ober-Ammergau.)
Assod, z. India, Bombay dist., p. 6,700, Assol, P. Persia, So m. N. Telieran, p. 10,000.
Assoor.—(See Amur.)

Amony, t. and treaty-fort on isl of Hiamen, prov. of Funkien, China, E. of Canton, Imp. trade, p. 400 000 natives, 350 foreign residents. Carries on a large trade with Japanese.

Amphilli, t. Beds., Fng., p. 2,270,
Amaranti, t. and dist. in Betar, India, p. 675,000

Amaranti, vol. of Brit. India, Madras Pres.; contained ruiss of finest Buddhiet travels in Luku.

ruins of finest Buddhist temple in India. Amritear, c. in Punjab, India. Holy city of the

Amriteaer, 2. in Punjab, India. Holy city of the Sikha, p. 162. cgB.

Sikha, p. 162. cgB.

Assarchas, Y. N. W. prov. India, p. 96.000. [p. 750. Amroun, ist. Prussia, prov. Schleswig, area, 11 sq. m., Amastel, sail. R. Holland, flowing through: cap. C. Anasterdam, commercial cap. of Holland at junction of R. Amstel and the Y. It is built on 96 isls, joined by 300 bridges, harbour can hold 1,000 ships; 9. 558,000; also t. on Mohawk R. In NY. State, p. 90,000; also t. on Mohawk R. In NY. State, p. 90,000; also t. on Mohawk R. In NY. State, p. 90,000; also t. on Mohawk R. In NY. State, p. 90,000; also t. on Mohawk R. In NY. State, p. 90,000; also t. on Mohawk R. In NY. State, p. 90,000; also to Mohawk R. In NY. State, p. 90,000; also to Salahatian, anne us also applied to the R. Ozus, flowing through Holkhara and Khiva, 1,500 m., into Sea of Aral Amsur (or Sakhalia) R. 3,000 m. flows from Mongolia between Maachuris and E. Siberia into the Pacific, opposite the isl. of Saghalien; also Russian prov. in H. Asia, area 172,848 sq. m., comprising country N. of the Amur R., and S. of the Yabland mms.

oeween Manchurs and E. Shoria into the Facinc, esposite the ist, of Saghalien; also Russian prov. in E. Asia, area rya,848 sq. m., comprising country N. of the Amur R., and S. of the Yabinand mus, Blagoveschensk, the chief t, was the scene of a terrible massacre of Chinese by the Russians.

Anacorea, mining vil., Montana.
Anacorea, c. Fidalgo 1el., Puget Scund.
Anacorea, f. in Russian, r. Odessa, p. 17,000 ½
Anantapur, t. in India, Madras Pres., p. 7,000.
Anatolia, W. parts of Asia Minor.
Anatolia, W. parts of Asia Minor.
Anchelme, R. in Eng., rises in Lincolnshire and joins Anoon, spt. c. Peru, sn. N. of Lima.

Assoma, prov. and spt. in Central Italy, on the Adriatic Sea, founded by Dorlans, R.C. 1500, p. 58.8ez.

[Moor, p. 98.
Assrum, vil. in Scetland, co. Roxburgh, nr. Ancrum Ancus, spt. Chill, p. 6,500.

Ancua, spt. Chill, p. 6,500.

33,340 Sq. m., p. 3,900,800; also vil. in Alabama.
Andamans and Micobara, group of sixis in Bay of
Bengel, srea 2,843 sq. m.; penal testisment of the
Indian Gov. There are about 2,000 inhabitant,
including officers and ex-convicts. Nicobara con-

Andalusia, one of the old divisions of S. Spain:

price 19 ids. All of the coavicts. Nicobarts conprice 19 ids. All of the coavicts. Nicobarts conprice 19 ids. All of the coavicts. Nicobarts conprice 19 ids. All of the coavicts of the coavicts of the
Andernset, v.v. at soct of Godhard, canson Us,
Switzerland, p. 850.
Anderlendt, mitg. I. in Belgium, prov. Barbant,
Andersach, I. in Rhendin Prussia, on the Rifine, 70 in.
N.W. of Cobbert, p. 7, 550.
Anderson, cap. of Madison co., Ind., U.S.A., p. 80, 178;
also t. S. Carolina, U.S.A., p. 5,498; also with. N. of
W. Australia.
Anderson Lake. Reit Columbia.

W. Australia.

Anderson Lake, Brit. Columbia, Cariboo dist.

Anderson's Springra, Lake co., Calibornia.

Audes, great man. system of S. America, 4,500 m. long: from Panama to C. Hora, 40 m. broad; volcanic; several of the peaks are over 10,000 ft. high.

Andes, Los, a state of Venezuela, area 14,779 sq. m., p. 305,000.

(of Khans of Khokan, p. 48,750.

Andijan, 6 in Russian Turkestan, forimerly residence Andorra, 154 sq. m., small veb. in E. Pyremees, indep. since A.D. 790, p. 1500.

Andover, 6 in Hants, Eng., 66 m. S.W. of London, p. 7,395; also t. m Mass., U.S.A., on the Merrimac, p. 6,813.

Andreanov Isla., Alaska, contre of Aleutian Isls.

Andreanov Isla., Alaska, centre of Aleutian Isla. Andreasoverse, summer resort in Hanover, nr. Göttingen. [University, p. 7,85t. Andrews, St., Royal burgh, cb. Fare, Scetland, seat of Andrea, c. in S. Italy, p. 95,000.
Andros, fst. in Greek Arch., p. 25,000; also a small isl. group in the Bahamas.
Androscoggin, R. New Hampsh., and Maine, affluen of Kennebec. 15 m.

Androiscoggin, R. New Hampsh., and Maine, affluent of Kennebec. 175 m
Andular, z. on Guadalquivir R., Spain, p. 16.000.
Anegada, northermost of the Virgin Is., West Indies; area 73 s.g. m.
Angara, R. in Siberia, chief trib. of Venisei, 2,500 m.; navigable almost its entire length, vises nr. and flows through L. Raikal.
Angeles, Los, c. California, p. 100,479.
Angelioa, viz. N. York Stato.
Angermunde, t. in Prussia, 40 m. N.E. Berlin, p. 7,000.
Angernunde, c. on Sarthe R. 215 m. S.W. of Paris, p. 83,966.
Angle, par. co. Pembreke, Wales, en Mifford Haven, p. 840.

Anglesey, ish and co. in N. Wales, separated from

Anglesey, 13t. and 6s. in ... wates, separated more carnaryon by Menai Straits, 20c aq. in, p. 300,933. Angle Vale, 73t. nr. Adelaide, S. Australia, p. 76s. Angol, t. Chili, 12 an. S.E. of Concepcion, p. 65,00. Angola (area, 484,370 sq. in., p. 4,200,000), Portug. prov. in W. Africa; oap. St. Paul de Loanda; also vil. in Indiana.

Angora, vilayet in interior of Asiatic Turkey, includ-ing most of the ancient Galatia, famous for its goats, p. 900,000. Angora, the chief t., stands on the

uny most of the ancient Galatta, famous for its goats, p. 90,000. Angora, the chief t., stands on the Sakaria R., p. 30,000. Angoraton, c. nr. L. Chad, Ceutral Africa, p. 30,000. Angoraton, c. nr. L. Chad, Ceutral Africa, p. 30,000. Angostura, or Ciudad Bolivar, Venezuelan p. on Ornicca R., p. 12,000. Angoulems, mig. c. on R. Chareste, France. Suffered during Huguenot Wars. Fine Cathedral, p. 36,392. Angoy, territory in Lower Guinea, bounded S. by Congo R. and W. Athartic. Angora, per on Terceira Isl., cap. of Azores, p. ro,843, Angra Pequena, Ger. p. in S.W. Africa, acquired in 1884.
Angril, c. Italy, prov. Salermo, p. 19,000.
Anguilla, cfs. in W. I. Leeward Group, area 32 sq. m., Anguas, old name of Forfarsh. Scot.; also vil. Ontario; also mth. in Victoria, Australe.
Anhalt (2,500 sq. ms., p. 316,203). Duchy, Germany schieft, Dessan.

Arihim, spr. s. E. coast of Gulf of Slam.
Anibox, sv. in Carregat, Dennark.
Anibox, sv. in Carregat, Dennark.
Ani, anined Armenian c., now possossed by Russia,
situated between Arpa Chai and a deep savine.

Aniches, industrial t. In France, dep. Nord, p. 7,200. Anizeh, trade centre in Nejd, Arabia, p. 30,000.

Anizeh, trade centee in Nejd. Arabia, p. 30,200.
Anjar, f. India Cutch State, p. 12,500.
Anjar, s. Anda Str., Java; diestroyed by inundation caused by eruption of Krakatoa in 1883.
Anklam, f. Prussia, prov. Pomerana, iron foundries and factories, p. 14,602.
Ankobar, cap. of Sloa, Abyssinia, p. 15,000.
Annaberg, mindig f. Saxony, in Chemuitz, p. 15,057.
Annalong, vol. and harb., co. Dows, Ireland, nr. Kilkeel.

Kilkeel.

Kilkeel.

Annam (area of old state proper, 27,000 ac. B., p. 3j millions). In the Eastern part of the Indo-Clinese Peninsula. Unit 1885 an indep. empire, then declared a French Protectorate; cap. Rué.

Annambe, 59t. and Brit. Statum in W. Africa, nr. Cape Coust Caste, p. 5,000.

Annan, £ and Royal burgh, in Dumfries, Scotland (p. 4,229), stands on E. baak of K. Aiman, which flows to Solway Firth.

Annandale, valley of R. Annan, Dumfries, 30 m long.

Annandale, valley of R. Annan, Dumfries, 30 m long.

Annandale, solley of R. Annan, Dumfries, 30 m long.

Annandale, valley of R. Annan, U.S.A., p. 8,400.

Ann Arbor, £ in Michigan, U.S.A., on the Huron; University of Michigan, p. 14,569.

Annbank, collery v.f. in Scotland, co. Ayr, nr.

Tarbolton.

Tarbolton. [Savoie, p. 13,611.

Annecy, industrial t. in France, dep. of Haute-Anniston, c. in iron-mining region of Alabama, U.S.A., p. 10,000.

p. 10,000.
Annobon, Span. 1sl. in Bight of Biafra, W. Africa.
Annobay, mftg. l. in France, dep. Ardèche, p. 17,666.
Anoka, c. Muna, U.S. A., p. 5,000, on Rum R.; also t.
in Indiana; and also t. in New York, U.S. A.
Anson, 1sl. p. 10,000.
Anson Bay, 22 in, broad, 12 in. long, S. Austialia.
Anson Bay, 22 in, broad, 12 in. long, S. Austialia.
Ansonla, c. in New Haven, co Connecticut, U.S. A., clock-inaking industry, p. 12,681. [Nuremberg.
Anspack, or Ansback, f. in Bavaria, 31 iniles from
Anston, 1st. in W. R. Yorks, in Notts border, p. 950.
Anstruther (Easter and Wester), fishery L in co. File,
Scotland, p. 1,600. Scotland, p. 1,600.

Ansus Isl., in the Pacific, off the coast of New Guinea.

Anta, sin. t. in Peru, nr. Cuzco.

Antananarivo, cap. of Madagascar, p. (with suburbs)

Antarctic Ocean, expanse round S. Pole: it contains Enderby Land, Sabrina Land, and Adelie Land, Victoria Land, with volcances, Mt Erebus (12,000,ft.), and Mt. Terror (10,000 ft.); also several isls

and Mt. Terror (10,000 ft.); also several ivis Antelope, the name given to several towns in various parts of the U.S.A.; also to a station on the C.P. Ry. in Canada, nr. Winninge; to numerous creeks, rivers, plains, springs, hills, and a mtn. range (Nevada) in America.

Autibes, 3M France, dep. Alpes Maritumes, p. 6,600 Anticosti, larren 126, in the N. of R. St. Lawrence, British N. America. Now used as a game preserve. Antietam Creek, Maryland. Falls into Potomae R., nr. Harpor's Ferry. Here a great hard was fought (Sharpsburg) in 1866 between the Federal and Confederate Forces.

Confederate Forces.
Antigo, & Wisconsin, Langdale co., U.S.A., p. 5.145.
Antigo, and of the Leeward Group, of the Brit. W.
India Isls. St John is the cap., sugar, molasses,
rum; ros sq ni area, p. 47,000.
Antigue, t. and prov. Philippine Islands.
Antiguity, sin. c. in Meigs co. on the banks of the
Ohlo, U.S.A., p. 1.750
Antilles, great chain of rid. West Indies, comprising
the Archipelago enclosing the Caribbean Sea and G.
of Mexico.

of Mexico.

of Mexico.
Antioch, ancient c., Syria, on R. Orontes; earthquake in 1872 weduced p. from 18,000 to 4,000. Present p. 25,000. [22,476 sq. m., p. 500,000; Medellin.
Antioquia, dep. of Republic of Columbia; area Antiparos, int. one of the Cyclades. Greece, between Paros and Siphorto.

Paros and Sipnonto.

Antipodes, a group of st. in S. Pacific, unimhabited.

Antipart, t. in Montenegro, nr. the Adnatic, p. 2,514.

Antiologuest, t. and prov. Chili, on Pacific Coast, p. of cap. 10,500. Area of prov. 4,718 aq. m., p. 65,000.

Ante Taurus Mins., Asiatic Turkey, a range running parallel to the Taurus.

Antrim, maritime co. in the extreme N.E. of Ireland; Belfast, co. t.; famous Giant's Causeway is on the N. coast; p. 478,603. Autrin t. on the Six-Mile Water. p. 1,825.

p. 1,005.
Antwerp, 59t. Belgium, on R. Scheldt, famous Gothic cathedral spure, 36t ft., contains works of Ruberts. Vandyke born liete in 1599. Great trading port, p. 885,600 (including suburbs of Borgerhout and Berchlum, 350,000).

Anuradhupura, chief t. in N. Central prov. of Ceylon, p. 3.000. [Ocean Anxiety Point, on the coast of Ala-ka, in the Arctic Anxious Bay, Great Australian Bight. Anzin, f. in dep. Nord, France; extensive metal

Anzin, f. in dep. Nord, France; excessive manifoldstries, p. 4,500. [Ocean Anzuan, £6f., one of the Comoro group, in the Indian Aobas or Leper's Isl., one of the New Hebrules, Aosca, f. in prov. of Tunn, N. Italy, p. 7,670. Apamea, anc. c. of Syra, on R. Orontes, 50 m. S.E. of Anticol, overthrown by an earthquake in 1152. Aparri, spt. f. Luxon, Philippines, p. 3,200. Apalin, f. in Hungary on the Danube, p. 14,000. Apaldoorn, mitg. and ry. junction nr. Zutphen, Holland, p. 25,767.
Abennines, the mtn. "hackbone" of Italy. Length, Coppe

Holland, p. 25,765.
Apenaines, the mtn. "Lackbone" of Italy. Length, 800 m.; width, 90 to 80 m. Highest pt Mt. Corno, in Gran Sasso d'Italia, 0,585 ft.
Apenrade, 396 in Schleswig-Holstein, on food of same name, p. 6,000.
Apia, ch f. of Upola, Samoa Isls; centre of German companyers in the Pacific pt. com

commerce in the Pacific, p. 5 oso.

Apolda, £ in Sixe-Weimar, Central Germ., p 22,000.

Apollonia, dist., c. and fort on Gold Coast, Brit. W.

Africa

Affica Appalachie, R in Georgia, U.S.A., 80 m. Appalachien Mts. (See Alleghany Mts.) Appalachicola, port and R on coast of Florida. Appenzell, L and conton in N.E. Switzerland; p. (of t.)

5,000; of canton (with Inner Rhoden) 68,770.

Appin, coast wil., co. Argyll, Scotland, nr. Oban; p. 2,760; also t. N.S.W., nr. Sydney, p. 1,200.

Appleby, c. l. of Westmorkand on R. Eden, p. 2,736.

Applecross, par. and ham. Scotland, Ross-shire, p. 1,400. [D. 3,500; also sinl. t, nr. Tenterden, Kent. Appledore, par. co. Devon, England, nr Bideford, Appleton, c. in Wisconsin, U.S.A., p. 15,083; also vil. Minnesota.

Appomatox R., Virginia, joins James R. at City Point, 750 m. At the vil of the same name on R. bank, Geni. Lee surrendered to Geni, Grant on April 9th, Apsheron, pen on W. side of the Caspian, noted for

Apaheron, per on W. side of the Caspian, noted for petroleum wells (nr. Baku) and mud vulcances.

Apaley, f. Victoria, co Lowan, p. 750.

Apt, f. in France, dep. Vauciuse, p. 6500.

Apulla, 7,370 sq. m., p. 2,000,000, S.E. div. of Italy; a treeless, pastoral plain.

Apure, R. (1,000 sq. m.), Venezuela, S. America; trib.

Apurimac, R. (500 m.), and prov. of Peru; area of prov. 8,155 m. nr. v. 1,18000.

prov. 8, 167 vq. m. p. 180,000.

Aquambo, rountry of Upper Guinea, E. of R. Volta, Aquambo, rountry of Upper Guinea, E. of R. Volta, Aquala, t. and press in the central Apenainos, Italy; p (0f t.) 21,215; (of prov.) 307,645

Arabah, Wadi-El- (or Bl Gbor) desert valley nr.

p (of l. 21.215; (of prov.) 307.623
Arabah, Wadl-El- (or Bi Gbor) detert valley nr.
Dead Sea, Arabia, (peninsula of sane name.
Arabat, Crimean fortress, on Sea of Azof, and
Arabia, the most W. of the three great pen, of
Asia, Area about 500.000 sq. m.; p. (approximately)
5,000,000. Politically divided mito 3 Tunkish provs.
I Egyptn. dist., I Brit. col and prot., and several
indep. States.
Arabian Sea, N. part of Indian Ocean, between
Arabian Sea, N. part of Indian Ocean, between
Arabian Sea, N. part of Indian Ocean, between
Arabian, prev. of Persia (formerly known as khirzistan), p. 200,000, mostly Arabs.
Arabita, tin Asia Minor, on trib. R. Euphrates. Its
large Armenian p. (before 1895) 20,000, suffered
heavily during the massacres of than year. (p. 10,000,
Aracaid, c. and ph. of Brazil, cap state of Sergipe,
Aracaan, or farakan, 18,50 sq. m., 67,899; div. of
Lower Burma, cap. Akyab.

Ararcaty, f. and commercial shipping centre of
Brazil, p. 18,000.

Brazil, p. 18,000.

Arad, Old and New, ths. on Maros R., Hungary;
p. of O. Arad, 55,987, of N. Arad, 6,044.

Arafura Sea, N. of Australia, S.W. of Papua, and E. Aragon, div. and R. of Spain. [of Timor. Aragona, f. Sicily, prov. Girgenti, p. 12,000. Argua, f. Venezuela, and valley of the same name, E. of L. Valencia.

of L. Valencia.

Araguay (1,000 m.), R. in Brazil, trib. of Tocatine.

Aral Sea, 26, 766 sq. m.; large sait L. in Russ. Cent.

Asia; receiving the Amu and Sir Daria rivers; no outlet, all. 56 ft. above ocean level.

Aran, 15.., group in Galway B., Ire.; 11,287 acres,

Aranjues, C. on R. Tagus, Spain, p. 10,000. [p. 3,000.

Aranyos, gold-bearing R. of Transylvania, 85 m.

Arapaboe Peak, 101. in Colorado, U.S. A., alt. 13,500 ft.

Ararat, 101. Armenia, supposed resting place of Noah's

Ark, now the converging point of three Empires,

Russia, Turkey, and Fersia.

Aras R. (the ancient Arakes), rising in Armenia, and
flowing through Transcaucasis to the Kur, 50 m.

Arasaig, 102. in Inverness co., Scotland, on Loch-na
gaul. [about 30,000 warlike natives.]

gaul. [about 20,000 warlike natives.

Araucania, Ind. Terr. in S. of Chili; inhabited by

Arauco, fort and t. of Chili, south of Concepcion,

p. 4,000. [5,650 ft. Aravalli Mts., range in Rajputana, India; Mt. Abu, Arawan, trading L in Sahara dest., N. Timbuctoo, p. 5,200.

Araxa, t. Brazil, prov. of Minas Geraes, p. 14,000. Arbela, t. in Syria, E. of the Tigris (modern Erbil), p. 4,000.

Arboga, t. Sweden, nr. Westeras, p. 5,000. Arboia, t. France, dep. Jura, p. 6,050. Arbroath, t., mfig., Forfarshire, Scotland; royal and

Arbuthnot, par. Scotland; royal and parliamentary burgh, p. 20,648.

Arbuthnot, par. Scotland, co. Kincardine, p. 674.

Arcachon, popular watering place in France, dep.

Giroupe, p. 8,000.

Arcadia, 470. of Peloponnesus, Greece, p. 167,092;
also spt., p. 3,000. There are numerous sm. t.'s m
U.S.A. called Arcadia, and one m Nova Scotia.

Archangel, prov. N. Russia, includes Nova Zembla, p. 24,590; also spt. (extensive fisheries), p. 22,500. Archand, t. Lachawanna co., Pennsylvania, U.S.A.,

P. 5.36., C. York Peninsula, Queensland, Australia, Archidona, f. Andalusia, Spain, p. 8,500, Archidona, f. in Ægoan Sea between Greece and

Asia Minor.

Aros, L in Spain, prov. Cadiz, p. 17,500.

Aroot, L India, 65 m. W. of Madras, memorable for its defence by Clive in 1752; p. 13,000. N. and S. Aroot are two dists. of the Madras Pres. with a

Arcot are two dists. of the mauras fres. with a conjoint p. of 5,000,000.

Arctic Ocean, the waters in the N. polar area, opening into the Atlantic by Davis Str., etc., and into the Pacific by Bellring Sea.

Arcuent, t. in France, dep. Seine, p. 6,500.

Ard, Loch, sm. L. in Scotland, co. Perth.

Ardagh, t. in Ireland, co. Longford, p. 2,200.

Ardebil (or Ardabil), chf. t. prov. Azerbaijan, N.W Persia. p. 2,000.

Ardebil (or Ardabil), chf. 4. prov. Azerbaijan, N.W. Persia, p. 10,000.
Ardeche, 4cp. S. France; area, 2,145 sq. m., p. 349,951.
Ardee, f. in co. Louth, Ireland; p. 1,863.
Arden, f. in co. Louth, Ireland; p. 1,863.
Ardenne, adp. N. E. France, cap. Mexicres, area 2,000 sq. m., p. 315,863; also forest extending from S.E. Belgium to N. France.
Ardeonaig, per. on Loch Tay, co. Perth, Scotland.
Arderry, Lough, in Ireland, co. Galway.
[p. 1,072.
Arderser, per. on Moray Firth, Inverness, Scotland, Ardglass, fishery vii., co. Down, Ireland, p. 54.
Ardingley, per. nr. Cuckfield, co. Sussex, England, p. 1,200.

p. 1,200.
Ardmore, sm. watering place in co. Waterford, freland, p. 750; also t. of Chickasaw Nation, Indian Terr., U.S.A., p. 5,681.

Terr., U.S.A., p. 5.68r.,
Ardnamurchan, most westerly point of Scotland, on
Angyle coast; lighthouse, p. 1.542.
Ardoch, \$\text{per}\$, nr. Crieft, Perthshire, Scotland, p. 863.
Ardrah, \$\text{t}\$. Dahomey, 20 m. inland, p. 20,000.
Ardrah, \$\text{t}\$. France, dep. Pas-de-Calais, p. 2,223; nr.
here was the "Field of the Cloth of Gold," where

Henry VIII. and Francis I. met in 1820.

Ardrishaig, spt. in Argyleshire, p. 2,000. Ardrossan, spt. Ayr Coast, Scotland; 30 m. S.W. Glasgow, p. 5,760. [p. 184,933. Ardwick, populous suburb of Manchester, England,

Ardwick, populous suburb of Manchester, England, Arecibo, c. on coast of Porto Rico, p. 10,000.

Arendal, 1591: in Norway, on coast of Christiansand, p. (including suburbs) 11,000.

Arenaburg, 59t. 1st. of Œsel, G. of Finland, p. 3,800.

Arequipa, a 4e9. in the S. of Peru, between the Pacific and Bolivia, p. 229,007; t. cap. of dep. at foot of volcano (20,320 ft.) ruined by earthquake in 2668. Peru, p. 2669.

1868; pres. p. 35,000.

Arewa, dist. of Nigeria, French W. Africa.

Arezzo, c. in central Italy, p. 44,350; cap. of prov. of Argezzo, c. in central Italy, p. 44,350; cap. of prov. or Argezzo, p. 273,359.

Argeno, f. on E. Coast of Cebu, Philippine Isla., Argentan, f. dep. Orne, France, p. 6,297.

Argentauli, f. in France, dep. Seine-et-Oise, p. 17,424.

Argentina (1.113,346 sq. m., p. 7,031,822), Rep. in S. Amenca; formerly called La Plata (River of Silver);

America; formerly called La Plata (River of Silver); cap. Buenos Aires.
Argentine, c. Wyandotte, co. Kansas, U.S.A., p. 5,887.
Argention, t. in France, dep. Indre, p. 6,481.
Argolis, prov. in N.E. Morea, Greece, p. 80,695.
Argolis, prov. in N.E. Morea, Greece, p. 80,695.
Argolis, frov. in N.E. Morea, Greece, p. 80,695.
Argolis, frov. in N.E. Morea, Greece, p. 80,695.
Argolis, frov. in Cephalonial Isl., Greece, p. 10,000.
Arga, t. in France, dep. Ariége, noted for hot springs.
Argun, 1st., off W. Africa, nr. Cape Blanco, French.
Arguin, fr. (1,000 m.) of Chinese Territory, joins the Shilka to form the Amur.
Argyleahire, (3,165 sq. m.), p. 70,001. Largest co. in Argyro Kasatron (or Ergero), t. in Albama, Turkey, p. 0,000.

Argyro Kastron for Ergeroj. t. in Albama, 1 urkey, p. 9,000.
Ariano, t. in Italy, prov. Avellino, p. 17,000.
Ariano, t. and port in N. Chili, p. 4,000. [Nova Scotia, Arichet, 59t. on Madame 1sl. off Cape Breton Isl., Arid, C. on the great Ainstralian Bight.
Ariège, R. (90 m.) and dep. in S. France; area of prov. 1893 sq. m.; Foix, cap.
Arigal, prin. in Ireland, co. Donegal; alt. 2,462 ft.
Arimathea, t. in India, Palestine, probably the Ramah

or Scionion.

Arimos (700 m.), R. in Brazil, trib. of Tapalo.,
Arish, or El Araish, per in Morocco; also sin. t. on
S.W. border of Palestine.
Arismos of A Arispe or Arizpe, t on Sonora R. Mexico, p. 4,000.

Arizona, ter., U.S.A., bordering on Mexico, area

p. 25,000.
Arley, \$\rho x_n\$, nr Nuneaton, co. Warwicksh., Eng., Arlington, ci. m Middlesex, co. Mass., U.S.A., p. 8,605; also U.S.A. national soldiers' cemetery, in Virginia, opposite Washington, containing remains of 16,000 victims of American Civil War.
Allon or Arel, cap. Belgian Luxemburg, p. 10,000.
Arlsey, \$\rho x_n\$ r. it. Baldock, co. Bedford, Eng., p. 750.
Armadale, min. c. in co. Linilitgow, Scotland, p. 4,739.
Armadale, co. and c. in Ulster, Ireland, p. (of co.) 119,626, for Civly 7,569.

119,625, (of city) 7,560.

Armagh, par, in co. Kerry, Ireland, p. 1,500; also sm. isl. off coast of Mayo.

near the meeting point of the three empires, Armenian p. cruelly treated by Turks and Kurds. Estimated number of Armenians, nearly three

Armentières, mftg. f. in N. France, so m. of Lille,

Armentières, ming. f. in N. France, so in the p. 30,000.

Armidale, f. in N.S. W., 260 m. from Newcastle; also a fishing sin. on Scottish coast, co. Sutherland.

Armere, populous suburb of Leeds, W. R. York, Eng. Armore, f. India, Central prov. dist. Clanda, p. 6,000.

Armorica, anc. name of Brittany.

Araheim, ch. f. of Geiderland prov., Holland, Arai, f. in India, N. Arcot dist. Madras, p. 5,100.

Arno, R. sin Central Italy, flows past Florence and Pisa into Mediterrancan, 75 m.; Val d'Armo is the fruitful valley of the r.

fruitful valley of the r. Arnold, r. nr. Sherwood Forest, Nottinghamshire, Eng.,

p. 17.49. Arnowalde, f. in Prussia, nr. Stargarde, p. 8.500. Araprior, 578. on C.P.Ry. in Canada, Ontano div., gr m. W. Ottawa. Arasberg, c. Westphalia, Prussia, 44 m. E. Munster,

Arnstadt, t. in Schwarzburg, Sondershausen, Germany,

Arolsen' cap. of Waldeck, Germany, p. 3,100. Arona, f. in Italy, prov. Novaro, p. 3,000. Arpad, c. in Northern Syria, 15 m. N. of Aleppo the modern Tel Erfad.

Arpino, f. in S. Italy, prov. of Caserta, p. 12,000. Arqua, vil. in Italy, nr. Padua, where Petrarch died. Arques, t. in France, dep Pas-de-Calais, p. 2,500. Arrah, t. in Bengal, India, famous in the Mutiny,

p 48,000.

p 48,000.
Arram, vii. nr. Beverley, E. R. Yorks, p. 350.
Arram, vii. co. Bute, Firth of Clyde, Scotland; p. 4,8r; area, 165 sq. m.; also N. group of isls. 'of Douegal, Ireland; S. isls. at entrance of Galway Bay, containing many remains of Drudical times.
Arramb, f. in Sam, p. 4,500.
Arras, f. in France, 'caf. of the dep. Pas-de-Calais, famous for tanestry, b. 3881.

Arras, t. in France, cap. of the dep. Pas-de-Calais, famous for tapestry, b. 25,813.

Arreton, par. in Isl. of Wight, with extensive Down, Arrochar, vil. in Scotland, co. Dumbarton, head of Loch Long, p. 537.

Arroux, R. arroux, R. in Indian Archipelago, S. W. Papua, Arroux, R. in France, this of the Loire, 75 m.; flows past Autun.

past Autun.

Arrow, R. Wal-s and England; flows into Lugy nr.

Leominster; also R. and lough co. Sligo, Ireland;
also lakes, expansions of Columbia R., Brit. Columbia;
also R. and peak in Montana, U.S.A.

Arrowsmith, mins. W. Australia, 200 m. E. Perth;
also mtn. in Vancouver Isl., Canada, alt. 5,870 ft.

ArrowTown, t. in New Zealand, Lake co., p. 550, nr.

Shotover diggings.

Arta, dist, and t. Thessaly in Greece, on R. Arta, p.
7,500; also gulf between Albania and Greece, nr.

which the battle of Actum was Gought, 29 E.C.

Artecleave, 191. in Ireland, co. Londonderry, nr.

Colerane.

Colerane

Colerane.
Artern, f. Prussian Saxony, nr. Halle, p. 5,200.
Arth, f. in Switzerland, canton Schwyz, starting point of ry. up the Rigi; also R. in Cardigan co., Wales, falls into Irish Sea.
Arthur, f. Ontario, Canada, dist. Wellington, p. 4,500; also t. on Sauris R., co. Manitoba, p. 2,850; also seyl. sm. towns in U.S. A.

sevi. sm. rowns in U.S A. Arthur, sm. New Zealand, S. Isl., alt. 8,000 ft.; also Arthur, Ben. mtn. Scotland, co. Argyll, alt. 2,891 ft. Arthur, Port, Mauchuria. (See Port Arthur.) Arthur's Seat, tamous hill, Edinburgh, Scotd., 822 ft. Artington, par. nr. Guildford, co. Surrey, Eng., p. 780. Artols, old prov. of France, now known as the dep. of Pas-de-Calais.

of Pas-de-Calais.
Artramont, par. nr. Wexford, Ireland, p. 640.
Artro, R. in Wales, co. Merioneth. falls into the
Lanbeder.
Arun, R. Sussex, Eng., 40 m., flows into Eng. Channel
Arundel, market t W. Sussex, Eng., on the Arun,
p. 2,842. Arundel Castle, seat of Duke of Norfolk.
Aruwini, R. (1,800 m.) Central Africa, an affluent of
the Congo. Stanley's famous forest murch in 1887
van along this river; station of Congo Free State.

Arva, vil. in co. Cavan, Ireland, near Killshandra, p. 420.
[Rhone, nr. Geneva, 45 m. Arve, R. in France, dep. of Haute-Savoie; falls into Arveyron, R., trib, of the Arva, which it joins in the valley of Chamonix.
Arvi, l. in the Central Provs. India, Wardha dist. Aryalur, l. in Madras Presidency, Trichinopoly dist., India, p. 6, 100.
[Russia, p. 10, 500.
Arzamas, Industl, en. Nijni Novgorod, on Teslia R., Asaba, l. in Southern Nigeria, W. Africa, former administrative centre of the Royal Niger Company, p. 7, 400.
Asama-Varna, volcano in Japan, N.W. of Tokio, alt. Ascension, settlement, 12 m. S. of border line of New Mexico.
Ascension Bay, sm. inlet on E. coast of Yucatan. Arva, vil. in co. Cavan, Ireland, near Killshandra,

New Mexico.

Ascension Bay, sm. inlet on E. coast of Yucatan.

Ascension Isl., S. Atlantic, 760 m. N.W. of St. Helena, so named because discovered on Ascension Day. so named because discovered on Ascension Lay, 1501; British, Georgetown is the port; p. 180 sailors. Asch, niftg. 4. in Bohemia, Austria, p. 18,557. Aschaffenburg, f. Bayaria, on the Maine; manuf., coloured paper, celuiose, etc., p. 22,181. Asche, f. in prov. of Brahant, Begleium, p. 6,562. Aschersleben, f. in Saxony, nr. Halle, famous for its bring haths to 22 de.

Ascheratesen, F. in Satony, in: fraint, in nois for its brine baths, p. 27,242.

Ascog, coast wil, in Scotl., co. Bute, nr. Rothesay, Ascoli, cathedral c. in Central Italy, cap. of prov. of same name, p. (of c.) 28,882, (of prov.) 245,883.

Ascot, f. in Sherbrooke, co. Quebec, p. 3,500. also par. in Victoria. nr. Ballarat, p. 310; also pars, in co.'s Warwick and Oxford, Eng.

Ascot Heath, famous Eng. race course, Berks; 6 m. S.W. of Windton.

S.W. of Windsor. Asgarby, sni. par. nr. Sleaford, co. Lincoln, Eng. Ash, pars. in co.'s Derby, Kent, Surrey, and Hants,

Eng. Ashanti (p. 2,000,000), Brit, Prot, W. Africa (Gold Coust), formerly powerful native state; cap Coomassie (Kumasi).

Ashbourne, f. in N. Derbyshire, nr. Dovedale, Eng., Ashbournham, Aar. nr. Battle, co. Sussex, Eng.,

Ashburnam, par. nr. hattie, co. sussex, 2015, p. 1,250
Ashburton, t. Dartmoor, Devon, p. 2,404; also t. S. Island, New Zealand, p. 2,500; also R. and gold field dist. in W. Australia; and mm. range in S. Australia. (Wilts border of Berks co., Eng. Ashbury, par. nr. the Vale of White Horse, on the Ashby, name of 4 pars. in co. Lincoln, 2 in Norfolk, and in Suffolk, Eng.
Ashby-de-la-Zouch, t. in Leicestershire, Eng; ruined caste in which Mary Q. of Scots was imprisoned: p. 2.027.

P. 4,927.
Ashchurch, par. nr. Tewkesbury, co. Gloucester, Eng. p. 850.

Eng. p. 850.
Ashcroft, f. Brit. Columbia, p. 1,850; also stn. on C.P.
Ashdod, anc. Philistine c., so m. S. of Jaffa, Palestine.
A-she-bo, c. in Manchuria, S. of Sungari R., p. 40,000.
Asheville, c. and winter health resort in N. Cer.,

Asheville, f. and winter nearm reson in ... Com-U.S.A.; D. 15,000.
Ashfield, pars. in Suffolk, Eng.; in co. Leitrin, Ireland; t. in Ontario, Canada, p. 5,200; and t. nr. Sydney, N.S.W., p. 25,130.
Ashford, ry. f. Kent, Eng., p. 13,670; also par. nr. Stames, Middlesex; also t. co. Arrawata, N.S.W. Ashield, acc. in Selbrik, co. Scotland, p. 320.

Stanes, Muddesex; also t. co. Arrawata, N.S.W. Ashkirk, par. in Selkirk, co Scotiand, p. 320.
Ashkand, r. Pennsylvania, p. 6,328; c. in Kentucky, p. 6,320; also c. in Wisconsin, U.S.A., p. 13,074
Ashtabula, r. Ohio, U.S.A., nr. L. Erie, p. 12,049.
Ashtagram, drv. of Mysore Prov. Brit. India, area
4,859 sq. m., p. 1,500,000.
[and townships in U.S.A.
Ashton, name of numerous pars, and vrls. in Eng.
Ashton-in-Makerfield, r. in inneral dist., in: Wigan.

Lancashire, p. 21,540.
Ashton-under-Lyne, mftg. f. nr. Manchester, p. 45,177
Ashtapmouchouan, L. in Quebec, Canada, outlet A.

R. (170 m).
Ashurada, Russian navni sin. on Caspian Sea.
Ashwanipi, R. (600 m) in Labrador, flows to Atlantic.
Ashwell, parishes in co.'s Herts, Rutland, and Norfolk.

Eng. A da, the largest of the five continents. Area, 174 mill.

sq. m. (five times the size of Europe), p. 850 mill. Larger portion held by three Powers—Britain, Russia, and China. Principal countries comprised in Asia:—

Turkey, Arabia, Persia, Afghanistan, Baluchistan, India, Burnia, China, Annam, Siam, Corea, Japan, Asiatic Russia, and Turkestan (s.v.), Asiaga, A. in Italy, \$100. Vicenza, p. 2,005.
Asia Misno, W. portion of Asia, part of Asiatic Turkey,

Asia 22,0007, W. portion of Asia, part of Asiante Turkey, Area 250,000 Sq. 811, P. 8,000,000; chief c. Smyrna, most impertant pt. of the Levant. Asinara, ist. off the N.W. coast of Sardinia, rr m. long, the amcient sk. of Hercules; G. of A., an ann of the Mediterranean. Askabad, Russlan melitizary sts. in Transcaspia; base for operations S. into Persia, and E. towards India,

her operations S. into Persia, and E. towards india, p. 20,000.

Askipa, a volcame in Iceland, in eruption in 1875.

Assael, E. in S. Sweden, nr. Verlö.

Assaels, St. f. in Manuta, Italy.

(Eng., p. 2,339.
Aspatria, per. nr. Cockermouth, co. Camberland,
Aspear, co f Colorado, cap. of Pitkin co., U.S.A.,

p. 3.303.
Asperg, t. nr. Stuttgart, in Wurtemberg, p. 2,200.
Aspinwall, or Colon, Atlantic terminal st. of Panama

Aspinwall, or Colon, Atlantic terminal st. of Panama Canal, p. 3,000.

Aspull, someshite, nr. Wigan, Lancashire, Eng., p. Assab B., Ital, stn. on Red Sea coast, 30 m. N. of Pertin. Assab. J., Ital, stn. on Red Sea coast, 30 m. N. of Pertin. Assab. J., Abyssania, nr. G. of Tajurrah, 600 ft. below sca-level, salt water.

Assalia, t. on Nie, alove Khartoum.

Assana, brev. Brit. India, area 56,000 sq. m. Brahmaputra R. flows through it; extensive tea planuations; p. 6,122,200. Chief town, Shillong.

Assaya, t. Nizam of Hyderabad's Dominions, S. India. Wellington's victory over Mahratta, 1803.

Asscha, t. in Belgium, prov. Brabant, p. 8,000.

Assen, t. in the Netherlands, cap. of prov. of Drenthe, p. 11,500.

[Belt, p. 4,500.

Assen, i. in the Netherlands, cap. of prov. of Drenthe, p. 11,500.

Assens, i. in isl. of Fünen, Denmark, on the Little Assington, par. nr. Neyland, co. Sufiolk, Eng. p. 640.

Assinitoda, prov. in Dominion of Canada, W. of Manitoba, area 94,500 sq. in; Canadian Pacific Rly. runs through it; p. 67,385; cap. Regina.

Assinitodine, R. (7,500 m.) in Manitoba, Canada, joins Red R. at Winnipeg.

Assinite, French Colonial Settlement in W. Africa, on R. Assinie, French Colonial Settlement in W. Africa, on R. Assinie, which divides Ivory and Gold Casts.

R. Assinie, which divides Ivory and Gold Coasts.

Assisi, t. in Perugia, Central Italy, birth place of St.

Francis. Fine cathedral and old castle, p. 7,000

Francis. Fine cathedral and old castle, p. 7,000 (of commune 17,000).

Assiut, administrative cap. of Upper Egypt, 248 m. S. of Caire, p. 4,000. Contains many fine buildings. Famous for red and white pottery.

Assouan, Assuan, or Aswan, frontier t. on Nile at 1st Cataract, Upper Egypt; ancient name Syene, Near it are famous runs, temples, catacombs, etc. Great Nile barrage works immediately above t.; p. 25,000. Popular as a winter resort.

Assuay, dep. of Ecuador, S. America, area 250,000 sq. m., p. 150,000.

m., p. 750,000.
Assumption, or Asuncion, cap. of Paraguay, p. 34,072.
Assynt, maritime par. in S.W. of Sutherland, Scot.
Loch Assynt (7 m. long) is in the N. part.

Astara, 39% on the Caspian, at Persian frontier of Russia; important trading centre.
Astbury, industrial 92x. nr. Congleton, in co. Chester, Eng.; silk factories; p 30,000.
Asten, t m Notherlands, N. Brabant, p. 3,500.

Astery, R. in Sussex, Eng., runs into sea at Hastings.

Asti, wine t. in Alessandria prov., Italy; fine

Astery, R. in Sussex, Eng., runs into sea at Hastings.
Astei, wine L. in Alessandria prov., Italy; fine
cathedral; p. 39,000.
Aston, many part. of this name in Eng.
Aston Manor, part. ber. of Birmingham, Eng.
Astoria, almon-canning L. in Oregon U.S.A.,
p. 8,38x; almon-canning L. in Oregon V.S.A.,
p. 8,08x; almon-canning L. in Oregon, S. V. Y. City.
Astrabad, L. in N. p. 12,000), chief t. of the prov. of
that name, which has p. of 80,000, mobily Turcomans.
Astrakana, govic Russia on Volga, areasys,23y Sq. m.,
p. over 1,000,000; also C. on isl. 30 m. from mouth of
Volga, p. 190,000.
Astralafe B., Kaiser Wilhelm's Land, New Guinea, a
arm of the Pacific Ocean.

Astropalia, isl. in S. part of Afgran Sea, noted for its

Astura, R. S. of Rome, falling into Mediterranean; Astura, R. S. of Rome, failing into Moditerranean; and sm. t. at its mouth, Spain, now Ociedo, on B. Asturias, old prov. in N. Spain, now Ociedo, on B. Atacama, prov. and desert in N. Chili, area 8,9375 sq. m., p. 85,000; cao. Copiapo.
Ataki, f. in Bessarabia, Russia, on the Diester, Atbara, R. in Abyashia, trib. and last affluent of Nile, length 500 m. [R.'s, Louislana, 120 m. long. Atchinak, f. in Siberia, p. 7,000.

7. 15,000.
Atessa, 4. in Italy, nr. Chieti, p. 10,005.
Atts, 4. in Belgium, prov. of Hainault, p. 10,646.
Ath, 4. in Belgium, prov. of Hainault, p. 10,646.
Athabasca, R. (440 m.), and L. (area 3,085 sq. m.), in N.W.T. Canada, both navigable by steamers, save at Grand Rapids, nr. mouth of Clearwater R. Athboy, t. in co. Meath, Ireland, on R. Athboy,

p. 2.492.
Athelney, isl. or marsh nr Taunton, Somerset, Eng., between the R.'s Tone and Parret; King Alfred's

hiding place. (monastery, p. 920.
Athenry, t. m Ireland, co. Galway; old Dominican
Athena, cap. of Greece, most renowned c. in antiquity;

Athens, cap. of Greece, most renowned c. in antiquity; anc. contre of Greek art and learning; p. 128,000; also name of seven towns in U.S.A., t. in Clarke Co., Georgia, p. 10,245, being the site of a university.

Atherstone, t. nr. Tanuworth, co. Warwick, Eng., 19,133; C. In Mainchester, p. 19,133.

Atherton, or Chowbent, t. Lancashire, Eng., 13 in. Athgarh, native state Orissa, Bengal, India, area 108 sq. m.

Athlig, t. in dep. Orne, France, nr. Paris, p. 3,707.

Athlit, t. in Galilec, Palestine; contains castle of the Pilgrinis, built by Templars, 13th century.

Athlone, milit. sta. on Shannon, 80 m. W. of Dublin p. 6,617.

p. 6.617, and the state Orissa, Bengal, India, Athol, t. Worcester co., Mass., U.S.A., p. 7,061.
Athole, this, in N. Perthshire, Scot., area 450 sq. m.,

extensive deer torest. Athos, min. in Ronnielia, European Turkey, known as the "Holy Mountam," and the "Monks' Penin-

sula"; 3,000 recluses, with as many servants.

Athy, co. 4. of Kildare, Ireland, on R. Barrow,

p. 4,000.
Atina, t. in Italy, prov. Caserta, p. 2,200
Atitlan, L., t. and volcame min. in Central America,

ni Charenala: alt. of unn, 12.500 ft.
Atkarsk, Russi in t. in govt of Saratoff, p. 7,000.
Atlanta, cap. and largest c. of Georgia, U.S.A.,

p. 154,830
Atlantic City, summer resort, New Jersey, U.S.A., p. 46,150; also cap. of Cass co., Iowa, p. 5,546.
Atlantic Ocean, the most important of the three great

oceans, lies between the Old and New Worlds.

occans, lies between the Old and New Worlds. It is 9,000 in, long, and from 7,400 to 5,000 in, broad. Total area, 16,000,000 sq in Greatest depth yet found, 23,250 ft., nr. St. Thomas, W.I. Atlas, great man. range of N.W. Africa, extending 1,500 in, through Motorco and Algeria to Tunis Highest point, Tizn-Fanjurt, 15,000 ft.; Jehd Alashi 15 14,000 ft. high. [of Mt S Lias, Atna (or Copper), R. in Alaska, flowing to Pacific, W. Atrato, R. 275 in. in Colombia, S. America, flowing to total patien.

Atrato, R 275 m. in Colombia, S. America, flowing to G. of Darien.

Obarien.

Atrauli, L in N.W.P. India, 16 m. from Aligarh, Atre, K. of Cornwall, Eng., falls into Tamar.

Atrek or Attruck, R. in Persia, fortung div. from Rus. Turkestan (230 m.), enters Casplan Sen.

Atri, c. S. Italy, prov. Teramo (the ancient Hadri).

Attick, 2. S. Lay, prov. Cwari, p. 25,000.
Atsuta, 4. Japan, prov. Owari, p. 25,000.
Attack, iv, Brit. ter., New Gunnen.
Attack, iv, Brit. ter., New Gunnen.
Attick, ow., state in Greece, cap. Athens.
Attick, and., state in Greece, cap. Athens.
Attick abo par. in Norfolk co., Eng., p. 8,881.
Attock, prov. on Indus R., Rawal Pindi dist., Punjab,

p. 3,000.
Atur, I. India, Salemdis, Madras, p. 8,334.
Aube, R. (trib. Seine, length 125 m.) and dep. in N. E. France, area of dept., 2,37 sq. m., p. 245,566.
Aubenas, I. in France, dep. Ardeche, p. 8,560.

Aubervilliers, French industrial t., 5 m. N. of Paris,

p. 33.375.
Aubin, or Albin, t. France, dep. Aveyron, p. 9,317.
Aubin, St., sm. t. in isle of Jersey.
Auborn, per. co. Lincoln, Eng., p. 420,
Auburn, foldsmith's "Deserted Village," co. Westmeath, Ireland, zo m. from Athlone, nr. Lough Rea.
Auburn, t. nr. L. Owasco, Cayuga co., New York,
U.S.A., p. 30,345; also t. in Androscoggin, co.
Maine, p. 12.06f.

O.S.A., p. 36,35; aso t. in Andrescogui, co. Maine, p. 12,95;.
Auch, industrial f., cap. Gers dep., France, p. 12,939.
Auchinideck, par. Scot., co. Kincardine, p. 500.
Auchinideck, par. Scot., ur. Ayr, p. 7,124.
Auchmill, 6. Scot., co. Aberdeen, p. 1,855.
Auchterarder, f. 15 m. S. of Perth, Scot. p. 3,175.
Auchterarder, f. 15 m. S. of Perth, Scot., p. 1873.
Auchtermuchty, par. co. Fife. Scot., p. 1832.
Auckland, pat. in N. isl. of and largest c. in N.Z., cap.

Auckland, 59t. in N. isl. of and largest c in N.Z., cap. of Colony till 1865; extensive trade and shipping: p. 67, 226, (of prov.) 175,854.
Auckland. (See Bishop Auckland.)
Auckland Isl., uninhabited group in Southern Ocean, 200 m. off N.Z., discovered by British in 1864.
Aude, R. (tao m.) and dep. area 2,426 sq. m., in S. France, p. 313 531, cap. Carcassonne.
Audenshaw, industri. I. in Lancash., Eng., p. 7,578.
Audley, t. Staffordsh., Eng., nr. Newcastle-under-Lyme, p. 14,782.

Audenshaw, industri. F. in Lancasti., Eng., p. 7,578.
Audley, f. Staffordsh., Eng., nr. Newcastle-underLyme, p. 14,782.
Aug. f. in Saxoniy, nr. Zwickau, p. 15,246.
Aughrim. (See Aghrim.)
Auglaize, R n W. Oino, U.S.A., trib. of the Maine.
Augustay, 12 B.C.; p. 89,109 (Croce, p. 15,680
Augusta, fortified spt. in Sicily, on ist. off C. Santa
Augusta, fortified spt. in Sicily, on ist. off C. Santa
Augusta, f. on Savannah R., Georgia, U.S.A.,
p. 39,441 (18,487 negroes)
Augusta, t. on Kenneboc R., cap. of Maine, U.S.A.,
Augustowo, t. of Rus. Poinal, on Suwalki Canal,
p. 12,746.
Auide-Ata, t. and fort, Rus. Turkestan, 260 m. N.E. of
Aumale, t. in Sciue-Linferieure dep., France, p. 2,400;
also t. in Algerta, p. 6,003.
Aundh, native state. Deccan div. Bombay, India,
acra 447 sq. m., p. 63,013; chf. t. Aundh, p. 3,500.
Aurangabad, f. in Hydferbad, India, p. 26,765 (of div.,
same name, over a million). Suffered severely in
famine, 1889-1890.

Auralya, & in India, N.W. Prov., Etawah dist.,

Auralya, ¿ in India, N.W. Prov., Etawah dist., p. 7.350.
Auray, or Alrac, t. in Morbihan dep., Blittany, p. 6.485.
Aurich, Ł in Hanover, nr. Emblen, p. 6.013
Aurillac, mftg. f. France, cap. dep. Cantal, named from Emperor Aurellan, p. 7.459.
Aurora, ty. c. in Kane, co. Hilmois, U.S.A., p. 24,747.
also C. in Lawrente, is issouri, unamy company, p. 6.45.
Au Sable, R., New York, U.S.A., flows from the Adirondack Mts. to L. Champingin; also R. in Michigan, emptying into L. Huron [p. 40,000, Aussig, f. and R. port in Bohemia, on the Elbe, Austerlitz, f. Austra, prov of Moravia, where Napoleon gamed a decisive victory over Austria and Russia in 1805, p. 3,750.

Russia in 1805, p 3,750.

Austin, cap, c. of Texas, U.S.A., on R. Colorado, p. 22,258; also t. in Munesota, on Red Cedar R.,

p. 5.474. Austral Archipelego, or Toobooai Isles, a volcanic group in Polynesia, S. Pacific; French Protactorate,

Australasia, div. of Oceania, comprehending Australia, Tasmania, New Zealand, and a number of

adjacent Isles.

Australia, ssl., largest in the world, length, E. to W. Australia, st., largest in the world, length, E. to W. a,500 m., breadth; Appo m.; total area, 29,74,85 sq. m.; first visit by Luropeans in 1606, then called New Echland; Cook formally took possession for Britain in 1770. The five political divs. are New S. Wales, Queonsland, Virtoria, S. Australia, and Western Australia; Tasmania was included, but New Zealand did not come his the compass of the Commonwealth inaugurated in 1907, when the entire population of Australia was computed at 3 millions; p. in 1917 numbered 4,555,005.

Australia, S. (See South Australia.)

Australia, Western, formerly known as the Swan R. Settlement; occupies the entire Western part of Australia. From north to south it extends 1,800 miles, and from east to west about 1,000 miles, Chief 1. Perth, on the Swan R.; p. (of State) 20,300 area 97,500 sq. m. The chief products of the State are grid, wood, pearls, tunber, fruit, wheat, coal. from the state of the State 201d, wood, pearls, tunber, fruit, wheat, coal.

area 975,020 sq. in. The chief products of the State are gold, twool, pearls, thinber, fruit, wheat, coal. frozen meat, etc.

Australan Alps, min. range in E. of Victoria and N.S.W., running nearly parallel with coast; Mt. Koschisko, 7,337 ft.

Australian, Bight, Great, an indentation on Australian S. coast, between C. Catastrophe and C. Arid.

Australian Pyrenees, the Western part of the Australian Pyrenees, the Western part of the Australian Pyrenees, the Western part of the Australian Aps, in Victoria, are sometimes so called.

Australian, Archduchy of, hereditary domain of A lmperial lamily; divided by R. Ens into Upper and Lower A., proc., of Austra-Hungary,

Austria-Hungary, an extensive empire in Central Furope. Since 1867, Australa and Hungary have been united under one sovereign, but each has its own laws, purliament, and ministers. Vienni is the imperial cap.; Buda-Pesth is the cap. of Hungary; p. Austra, 20,372,000; Hungary, 21,340,000.

Autun, c. France, the ancient Augustodiumen, depressione-t-Lower, Romain remains, p. 15,764. [Cantal. Auvergne, old French 1970, now Puy-de-Dôme and Auvergne Mins, branch of Cevennes in above region; highest peak, Mt. Dor, 6,188 ft.

Aux Cayes, et Hayti, W. Indies, p. 9,000

Auxone, Individual c. France, cap. dep. Yonne, p. Saone-et, forthied c. France, cap. dep. Yonne, p. Saone, p. 6,706.

Saône, p. 6,706.

Ava. c. on the Irawadi R., Burma, Asia, formerly cap. : many pagodas, now runs, p. 8,000, also t. Shikoku isi. Japan, fine harbour. Avalon, t. in France, dep. Yonne, p. 6,500. Avalon, pen. in S.E. Newfoundland.

Avebury, par and vil. of Wilts, nr. Marlborough, famous for its Druidical remains, p. 807.

Aveiro, spt. t. Portugal, wme-producing prov. of Boira,

p. 8,860; of prov 291,926. [mkt. t. p. 950. Aveley, par. nr. Purfleet, co. Essex, Eng., formerly a Avellino, l. Italy, cap. of prov. of same name, contaming monastery resorted to by pilgrims to image of Virgin Mary, p. (of t.) 23,920, (of prov.) 402,895. Averno, L. in Italy, 10 m. W. of Naples, crater of extinct volcano.

Average, an Alpine valley of Switzerland, W. of the Engadine also a trib. to the Hinter-Rhein, Average garrison t. in Italy, prov. of Caserta, p. 23,477. Averysboro. vit. in N. Carolina, U.S.A., where Sherman repulsed the Federals under Hardeen in 265. Aves (Bird Isls.), a group in the Caribbean Sea, be-longing to Venezuela.

Aveyron, dep. S France, on rim of Central Plateau, watered by Rivers Lot, Aveyron, and Tara, cap.

Rodez; p. 382,074. Aviano, sm l. m prov. of Udine, Italy, 46 m. N.E. of Veince.

Avigliana, sm. t. in Italy, prov. Turin, p. 4,500 Avigliano, t. in S. Italy, prov. Potenza, on the Bianco

Avignon, on Rhone, chf. t. in dep. Vancluse, S.E. France. Residence of Popes from 1309-1378, and

anti-Popes 1378-1418; p 40,304. Avila, c. on R. Adaja, Spain (p. 1,712); in prov. of

Avines, t. on. Assays, Spain ID. 11, p. 200, c.

Aviles, fort in prov. of Ovicdo, Spain, p. 12,749, [5, ton. Avintes, t. pr. Oporto, on the Douro, Portugal, p. Avolona, or Valona, nearest spt. in Albama to Italy, p. 6,000.

p. 0,000.
Avoca, or Ovoca, picture-que R. and vale in co.
Wicklow; R. enters Irish Sea nr. Arklow; also t. in
Victoria, co Gladstone, p. 1,200: also sm. t. in Tasmania, co. Cornwall, p. 280; also t. in Pennsylvania,

mana, co. Coriwali, p. 2007, and t. in Fennsylvang, U.S.A., p. 5500.

Avola, 59t. 5n E. coast Sielly, nr. Syracuse, p. 15,000.

Avon, 60t. in Scotland, co. Banff, in the Granplans.

Avon, 6t. in Wilts and Hants, Eug., 65 in.; also Reuter. Bristol Chain.; aller flowing 50 in., 7 in. W. of Bristol; also R. flowing from Northants through Warwick, Loicester, and Worcester to Servem at

Tewkesbury; also R. in Monmouth and R. in Glamorgan, Wales, falling into Swansea Bay; also sn. R. s in Scotland, off of Annan, Clyce, Spey, and Firth of Forth.

Avondale, par. in Scotland, co. Lanark, contains Strathavon t. p. 5.033; also suburb of Cincumati, Avonmouth, outpers of Bristol. [Ohn, U.S.A. Avon Plains, agr. township of Victoria, 175 in. N.W.

of Melbourne, p. 4,500.

Avranches, t. on St. Michael's B., France, p. 7,784.

Awaji, mins. ist. (japanese) at entry of Inland Sea,
hubbest beak. Yurin. area 218 sq. m., p. 200,000; highest peak, Yurimbayama, 1,998 ft.

bayama, 1,098 ft.

Awe, Lock, (16 sq. nt.), Argyllsh., Scotland, 8 m. W. of
Inverary, bordered by Ben Cruachan.

Awomori, I. Japan, Niphon Isl. on bay of same name,
Axar, flord N. Iceland. [opp. Yesso, p. 13,500.

Axbridge, far. co. Somerset, Eng. nr. Wells, p. 6.012.

Aze, R. in Somerset, rising in the Mendip Hills, and
falling into the Severn: sibo R. rising nr. Childington, Dorset, and entering the English Channel at
Axmount in Devon.

Axedale, t. Victoria, Bendigo co., nr. Sandhurst, p. 550.

Axel Lord, t. n. Netherlands, 1007, Zeeland, n. 2001.

Cape Coast Castle.

Axminster, t. in Honiton div. of Devonshire, Eng., p. over 3,000: formerly famous for its carpets. [R., p. 680.

Axmouth, fish. vii. Devon, nr Colyton, at m. of Axe Axum, anc. f. in Tigre, Abyssimi, formerly the cap.,

p. 5.200.

Ay or Al, t. France, dep. Man'e, nr. Rheims, p. 5.500.

Ayacucho, t. in Peru. Founded by Pizarro in 1539, p. 20,000; cap. of dep. of same name (area 18,185 50, m., 15,1048. 20,000; cap. of esp. of same name (area 18,185 sq. m., p. 310,000; cap. of Bucks, straw mnfrs., p. 11,048. Aylesford, t. Kent, Eng., p. 17,848. Aylasham, mtt. t. Norfolk, Eng., p. 2,940. Ayr., co. t. at mouth of R. Ayr, 40 m. S. Glasgow, Burns born near here, 1759; p. 32,985. One of the

Ayr Burghs.

Ayr Burghs.

Ayr Burghs.

Scotland.

Ayrshire (1,142 sq. m., p. 268, 322), maritime co. m S. W.

Ayton, coast par. co. Berwick, Scotl., p. 1,577.

Ayuthia, or Yuthia, former cap. of Siath, on R.

Meham, so m. N. of Bangkok, p. 50,000.

Azamgarah, or Azimgarah, t. and dist. in N.W.P.,

Gorakhpur div., India, p. (of t.) 19,000, (of dist.)

1,500,000; extensive indigo factories.

Azamora, 59t. at mouth of R. Morbeya, Morocco,

Azamora, 5t. at mouth of R. Morbeya, Morocco,

Azamoro, 6, in the bash of L. Titucaca, Peru, an un
portant place in the time of Incas.

Azcaput Zaleo, 7tt. of Mexico, 5 m. W. of the cap.

Once an old Aztec town and slave market.

Azerbatian (2,200 86. up. p. 200,000). N.W. prov. of

Azerbajan (32,000 sq. m., p. 2,000,000), N.W. prov. of Persia, bounded N. by the Aras R. Azerley, vil. nr. Ripon, Yorks, Eng., p. 640.
A-zhe-ho, t. Manchuria, 30 m. S. of the Sungari R.,

A-zhe-ho, t. Manchuria, 30 m. S. of the Sungan R., p. 30,000.

Azores, or Western Isls., Portug. group in Mid-Atlantic, 1,500 m. W. of Ireland, and 1,700 E. of Nova Scotta; area 92z 90, m., p. 255,594; cap. Ponta Delgada, in St. Michael.

Azov, or Azof, Russ. zea and \$t\$. on R. Don near its mouth, p. 27,000. Length of the Azof Sea (which communicates with the Black Sea), 220 m. [p. 7,050.

Azpelitla, t. in Spain, prov. Guipuzcoa: from infis., Azusy, \$rov. of Ecuador, area 3,870 sq. m., p. 132,000; cap. Cuerca.

Azul, Italy, cof. in S. Argentina, prov. Buenos Ayres, Azurara do Beira (or Mangualde), t. in Portugal, p. 4,300.

Azusa, t. in Los Angeles, S. California, p. 2,800. Azwang, or Atzwang, t. in the Tyrol, Austria, nr.

Bosen, p. 3.417. [p. 4.220. zzano, & in the Udine prov., Italy, nr. St. Vito,

Baalbec, c. Syria, foot of Anti-Lebanon, known as the ancient Heliopolis; ruins of "Temple of the Sun," built by Antoninus Plus; pres. p. 5,000.

Baar, vil. in Switzerland, at m. N. of Zug, p. 4.000; elevated region in S.W. Wurtemberg, and S.E. Baden, above headwaters of R. Danube and Neckar.

Neckar.

Barderedeel, f. in Friesland, Netherlands, p. 6, rog.

Baba, promontory on W. coast of Asia Minor, entrance
of G. of Adramythium.

Babadagh, f. in Rounania, Dobrudja dist., p. 7,000.

Babakanda, f. in Foolag Country, W. Africa, p. 11,500.

Babakandeb, Strait of "Gate of Tears", unting

Red Sea to Indian Ocean, 20 in. broad. In it the

Red Sea to Indian Ocean, so in. broad. In it the Isl. of Perim (Brt.).
Babingreda, w.l. in Slavonla, Austria-Hungary,
Babuyan Islas, group in Pacific Oc. N. of Luzon, in the Philippunes, p. 9,000.
Babylon, anc. cap. of the Assyrian Empire in the Euphrates Valley, about 60 m. S. of Bagdad;
Hillah now occupies a portion of its site; also a modern t. in Long Island, New York, U.S.A.,

p. 7.500.

Black Bay, the expansion of Charles R., now largely filled in, and forming wealthy suburb of Boston, Mass., U.S.A.

Back, or Back's R. (cailed also Great Fish R.), 360 m. long, in Brit. N. America, falls into Arctic Ocean.

Backergunge, dist. in Dacca, div. of Bengal, Brit. Backergunge, ditt. in Daccn, div. of Bengal, Brit. India, stars 2,699 st. m., p. 2,90,000. ] b. 8,500. Backnang, t. Wurtemberg, Germany, nr. Stuttgart, Bacup, milg. t. in S. E. Lancashire, Eng., 20 m. from Manchester, p. 22,324. Badagara, t. India, Chalabar dist., p. 8,500. Badagara, t. India, Chalabar dist., p. 8,500. Badagara, t. nr. Lagos, in W. Africa, on the G. of Benin, formerly a great slave port, p. 10,000. Badagara, for rifed t. on Guadana K. Spam; stormed by British under Wellington in 1812; p. 30,000, propularly called Lower Extremadura, on S.W. frontier of Spain, p. 520,000. Badakshan, sm. Afglian State between Hindu Kush and upper Ozus, cap. Faizabad. Estimated D. 100,000.

p. 100,000.

and dipper of No., Cap. Felcaloa. Estimated pp. 100,000.

Badalona, t. in Spain, prov. Barcelona, p. 19,450.

Badeck, 5th. C. Breton, Isl., Bras d'Or, p. 450.

Baden, Grand Duchy of S.W. Germany, 5&2 sq. m., p. 2,143,000; mines, mineral springs, two universities (Heidelberg and Freiburg); chf. t. Carlsruhe.

Baden, or Oberbaden, watering place in Aargau, Switz., p. 4,000; also watering place in Aargau, Switz., p. 4,000; also watering place in Aargau, Switz., p. 4,000; also watering place (Baden-bei-Wien), 14 m. S.W. of Vienna, p. 12,447.

Baden-Baden, famous Spa in Black Forest, Germany; noted for its immeral springs; p. 22,006

Badenoethe, extensive barren mountainous dist. in Inverness-shire, Scotl., 33 m. long, 27 m. wide.

Badenweiter, watering place in Grand Duchy of Baden, western end of Black Forest, resident p. 1,000; visited by 5,000 people annually.

p. 1,000; visited by 5,000 people annually.

Badminton, seat of Duke of Beaufort, in Gloucestershire, and village; t. in India, Amrasti dist., Berar, p 6,500.

Badong, state and spt. Bali, Malay Archin., p. 130,000. Badulia, cap. of Uva, Ceylon, in tea-planting dist.,

Badulia, cap. of Uva, Ceylon, in tea-planting dist., p. 5,600.

Baena, t. in Spain, prov. of Cordova, p. 24,500.

Baena, t. in Spain, prov. of Cordova, p. 24,500.

Baeza, t. in Spain, 22 m. N.E. of Jaen; p. 16,000.

Baffin or Baffin's Bay, great gulf west of Greenland, communicating with the Atlantic by Davis Strait, and by Smith Sound with the Arctic Ocean; explored by Baffin, an Englishman, in 1616; open four months in the year (June-Sept.). Baffin's Land, a promontory of barren land W. of the Bay.

Bagalhot, t. in India, Kalidji dist., Bombay, p. 13,000.

Bagamoya, pt. and tradg. t. on E. African coasts, n. Zanzibar, p. 15,000.

Bagamoya, 19th. and tradg. t. on E. African costs, nr. Zanzibar, p. 15,000.
Bagharla, or Bagherla, t. in Sicily, p. 15,000.
Bagharla, or Bagherla, t. in Sicily, p. 17. Palermo, Bagdad, famous c. on R. Tigris, Aslatuc Turkey, 500 in. from the sea, cap. of anc. Saracen empire, p. 14,500. The vilayet of Bagdad stands between Persia and the Syrian Desert, includes some of the most fertile lands in the valleys of the Tigris and Euphrates, and has a p. of 800,000 Moslems, 50,000 Jews, and 8,000 Christians.
Bagenalstown or Bagull's Town, t., co. Carlow, on the R. Barrow, Ireland, p. 2,121. [bow landed. Bagenbun Head, co. Wexford, Ireland, where Strong

Baghelhand or Bhagelkand, dist. of Central India,

Bagheshand or Bhagelkand, dist. of Central India, E. of Bundalkhand, area, 11,292 49, m., p. 1,554,577. Poor soil, suffers from famine Bagillit, r., co. Flint, N. Wales, nr. Holywell, p. 3,500. Bagilen or Bagallen, dist. of Dutch col. of Java (south side), area 923 84, m., p. nearly a million; producing coffee, sugar, etc. Bagnacavallo, t. in Italy, prov. Ravenna, p. 15, 100. Bagnaca, t. 5. Italy, prov. Reggio; wine, honey, p. 11,000.

p. 11,000.

p. 1.000.

Bagnàres de Bigorre, watering place, French
Pyrenees; mineral springs and hot baths, p. 10,120.

de Luchen, f., dep. Haute Garonne,
France; noted for its thermal springs; p. 4,000.

Bagnes de Chable, watering place in Canton Valais,
Switzeriand, p. 5,000.

Bagni de Lucca, f. in Italy, 11 m. N. of Lucca,
Bagno-a-Ripoli, suburb of Florence, Italy, p. 10,500.

Bagnoles, f., dep. of Orme, France, mineral baths,

p. 14,000

Bagnolet, suburb of Paris, France, p. 9,700.

Bagnolet, in Piedmont, N. Italy, p. 6,810.

Bagolino, I., N. Italy, prov. Brescia, sulphur springs,

Bagolino, t., N. Italy, prov. Breacia, sulphur springs, p. 4,000.

Bagot, str. in Canada on C.P. Ry., 71 m. W. of Bagahot, vil in Surrey, Eng., adjousing the famous heath which runs along the Barkshire border.

Bahamas, Brit, chain of vile, W. Indies; first land in New World sighted by Columbus, extending 780 m. from Florida to Turk's Isls.; p. 55,000; they have a collective cap., Nassau, New Providence.

Bahamalpur, nat. d. and State on Sutlej R., Punjab, India; area of State, 17,285 sq. m., p. 720,602; cap. 63 m. from Mooltan, p. 18,635

Bahía, or San Salvador, second largest c, in Brazil, great spt. and trading centre, p. 20,000; cap. of State of the same name covering 16,640 sq. m., and containing p. of two millions.

Bahía Honda, 56. on N. coast of Cuba, W. of Havana, Bahiligen, t., Wurtemberg, nr. Stuttgart, p. 3,500.

Bahraich, t. in Oudh, Fatzabad div., India, p. 27,000; cap. of Bahraich, t. in Oudh, Fatzabad div., India, p. 27,000; cap. of Bahraich, group fin Persian G., under British beats

Bahrein Isla., group fin Persian G., under British pro-

tection. Fautous pearl fisheries; cap. Manamel. Bahrel-Abaid, the White Nile. Bahrel-Ghazai, one of the chief trib. of the White Bahrel-Hilex, "the waters of Merom," L. on Upper R. Jordan, Palestine.

Balkal, Russian fresh-water L. (13,700 sq. m.), sixth largest in the world. Frozen Nov.-May; 40 m. wide, skuted by Trans-Siberian Ry.; separates Irkutsk prov. from Transbankalia.

prov. from Fransoakkalla.

Baildon, 4 nr. Bradford, W R. Yorks, Eng., p. 6,042.

Bailleul, 4, 20 m. N.W. of Lille, N. France, p. 15,000.

Bain, 4, France, dep. Ille-et-Vilano, nr. Rheims,
Baireuth. (See Bayreuth.) Bairut. (See Beyrout.) [19, 5,000.]
Raitool, or Betul, dist. and t., Central Prov., India, Baixas, f., France, Pyrenees-Orientales, p. 3,000.
Baja, t. on Danube, so m. S. of Budapest, p. 20,000.
Bajaur, dist. of Alghanistan, S. of Hindu Kush,

Bakargani, dist. of Dacca, Rengal, India, p. 2,300,000.
Bakati, or Bakova, t. in Moldavia, Roumania, p. 20,000.
Bakchiserai, or Bakhtcheserai, old cap. of Tartar

S. and W. of the Danube, formerly resorted to by robbers.

Baku, Russian petroleum L and port on Casplan sea, p. 120,000; prov. covers parts of the plains of the Caucasus, p. nearly a million.

Bala, L. n. Denbigh, and L. in Merloneth, N. Wales, emptying into the Dee; p. of t., 1.537.

Balaghar, t. in India, on Hooghii R., p. 12,500.
Balaghat, dist., Brit. India, Nagpur Div., Central Prov.; area 3,19 80, m. p. 385,000.
Balaklava, sort on Crimean coast. Famous charge of the Light Brigade, Crt. 24ti, 1824; p. 750. [16,000.
Balakovo, river sort on the Volga, S.E. Russia, p. Balapur, t. in India, Akola dist., Behar; p. 10,000.
Balasinore, t. 50 m. N. of Baroda, Bombay, India, p. 10,000.

Balasinore, 1. 50 m. N. of Baroda, Bombey, dila, p. 100,000.

Balasor, Port in Oritsa, Bengal, India, p. 15,000.

Balason, 2. 6 Buda. Length \$6m., p. 1,000.

Balayan, 2. at head of C. of Balayan, Luzon, Philippine Isla, p. 24,700.

Balayan, 2. at head of C. of Balayan, Luzon, Philippine Isla, p. 24,700.

Baldyan, 2. in Luzon, I. Ireland, so m. N. of Dublin, Balby, 2. Eng., nr. Doncaster, W. R. Yorks, p. 11,571.

Baldutha, 2. nr. Duncandin, N. Zesland, p. 1,593.

Bald Hills, 2. in Victoria, 117, m. E. of Melbourne, p. 890: Bald Head Peak, Victoria, slt. 4,552 ft., lighest pt. in Dividing Range; Bald Min, peak is Front Kange, Colorado, U.S.A. alt. 13,000 ft.

Baldock, 2. in Herts co., Eng., on the Great North Rd., p. 2004.

Baldock, f. in Herts Co., Eing., on the Oreal Actual Rd., p. 204.
Balearic Isls., 1860 sq. m., p. 300,000, group is Mediterranean off S.W. coast of Spain; cap. Palnia.
Balestrate, f. Sicily, 22 m. W. of Palermo, p. 3,450.
Baleswar R., one of the chief distributaries of the Ganges to B. of Bengal.
Balfrush, trading f. in Mazandaran, Persia, nr. Caspian Coast, p. 50,000. [springs, p. 1,500. Balgach, vil. Switzerland, nr. St. Gall; sulphur Balgonie, stm. on C.P. Ry. in Canada, 34x m. W. Winninge.

Winnipes,
Ball, st. E. of Java, in Dutch E. Indies, area 2,24a.
Sq. m., p. 1,250,000; mamly engaged in agri[Marnora, p. 20,000,
[Marnora, p. 50,000,
[Marnora, p. 50,000,
[Marnora, p. 50,000,
[Marnora, p. 50,000,
[Marnora, p. 50,000] Balikisri, trading t. in Asia Minor, above the Sea of Balkans, mtn. range between Danube and Ægean

Balkans, mtn. range between Danube and Ægean Sea, forming boundary between Bulgaria proper and Eastern Roumelia. Highest pt. 7,800 ft.; chief passes, Nadir-Derhend, Karnabad, Shipka, and Trajan. Balkan Peninsula, atris. S.L. Europe, occupied by Turkey and other States, including the regions S. of the Save and Danube. Often used politically to indicate the ground covered by the Balkan States; i.e., Servia, Bulgaria, Montenegro, and European Turkey, sometimes also including Roumelia, and parts of Greece.

Balkaan, sait L., Asiatic Russia, nr. frontier of Western Mongolia; called also Tenghiz. Receives the 1lt R., but has no outlet, iength 345 m. by 55 n.

the Ili R., but has no outlet, length 345 m. by 55 m.

Wide.

Balkh, elist. of Afghai, Turkestan, between the Kabul and the Oaus; corresponding to the ancient Bactria; rival of Nineveh and Babylon. The chief c. Balkh (pres. p. 6,000) associated with Zoroaster, called the "Mother of Cities," Jhenghiz Khan destroyed it in 1220.

destroyed it in 1220,
Ballabhpur, suburb of Serampur, Hooghli dist,
Ballach Loch, Scotland, co. Perth. India.
Ballachulish, vvi., Scotland, on S. shore of L. Leven,
N.E. of Oban, co. Argyll, slate quarries nr.,
p 1,150. [reagh, p. 1,500.
Ballaghadereen, t. in Ireland, co. Mayo, nr. CastleBallan, t. Victoria, co. Grant, 45 m. N.W. Melbourne,

p. 950.

Ballangeich, f. Victoria, Villiers co., p 863.

Ballantrae, maritime par., Scotland, co.

Ballatrae, martime 927., Scotland, co. Ay, p. 1,080.
Ballapall, forest reserve, India, Cuddapah dist., Ballarat, c. Victoria, 70 m. N.W. Melbourne, important goldfield dist., p. 47,420
Ballasa, f. Upper Egypt, on the Nile, p. 1,270.
Ballater, vil., Aberdeenshire, Scotland, nr. the Royal Highland residence of Balmoral, p. 1,247.

Balleen, pas. in co. Kilkenny, Ireland, p. 1,500.
Ballenstadt, c. in Duchy of Anhalt, at foot of Lower

, Harz, Germany, p. 5,000.

Ballia, t. and dist. Brit. Incl. Benares div. of N.W.Prov., p. (of £) 16,500. (of dist.) 590,000.

Ballicottin Ial., in Ballicottin Bay, co. Cork, Ireland.

Ballieston, or Crosshill, & in Scotland, co. Lanark.

Ballieston, or Crossnii, s. in Scottand, co. Lanark, mining, p. 5, 131.
Ballina, 19t. on Moy R., co. Mayo, Ireland, p. 4,505; also t. on Richmond R., co. Rous, N.S.W., p. 2,800.
Ballisamuck, 19t. co. Longford, Ireland, nr. Killala; hore Ffench surrendered to Lord Cormellis in 1798.
Ballinasloe, t. Ireland, in co.'s Galway and Roscommon; large cattle fair, p. 5,000.
Ballinderty, K. Ireland, co. Londonderry, falls into Longh Nengh; also par, on its banks, p. 2,400.
Ballingry, 19t. Scotl., co. Fife, p. 9,214, nr. Loch Gelly.

Gelly.

Ballinrobe, mkt. t. Ireland, on R. Robe, co. Mayo,
Ballon d'Alsace, mtns. (4,101 ft.) in Vosges, France;
Ballon de Guebwiller, highest peak of Vosges, Upper

Alsace, 4,500 ft.

Bail's Bluff, on the Potomac R., Virginia, U.S.A.,
where Confederates gained a victory in 1861.

Bailiston Spa, wat. pl. Saratoga co., New York,

U.S.A., P. 3973.

Beily Lough, Ireland, co. Rosconmon, nr. Castle-reagh; a very large number of Irish pars. have this prefix, which means a town or place).

1,476.

Ballycastle, 544. and nkt. t., Ireland, co. Antrin, p. Ballydeboher, or Kilrowam, 5ar. co. Cork, Ireland.

Dayyerooc, or announce, your p. 1,754.
Ballydonagan Bay, Ireland, co. Cork, nr. Castletown; fishing vil. on bank.
Ballyella Bay, Ireland, co. Clare.
Ballynahon, f. Ireland, co. Clare, flows into Lough Ballynahon, f. Ireland, co. Longford, on R. Inny,

Ballymahon, t. Ireland, co. Longtord, on K. Imy, p. 870.

Ballymena, mkt. t. Ireland, co. Antrim, on the R. Braid; linen trade, p. 11,376. [of Bellast, p. 3100.

Ballymoney, mkt. t. Ireland, co. Sigo, p. 1,500.

Ballymote, mkt. t. Ireland, co. Sigo, p. 1,500.

Ballymoter, mkt. t. Ireland, co. Sigo, p. 1,500.

Ballymoter, mkt. t. Ireland, co. Sigo, p. 1,500.

Ballymoter, mkt. t. Ireland, co. Co. Down, p. 1,300.

Ballymeas Bay, Ireland, co. Toperary, p. 640.

Ballymeas Bay, Ireland, co. Toperary, p. 640.

Ballymagget, mkt. t. Ireland, co. Kukenny, p. 752.

Ballymagget, mkt. t. Ireland, co. Donegal, mouth of R. Erne; samon fishery, p. 3,000.

Salmacellan, par. in Scotland, co. Kircudbright, p. Balmain, swbird of Svdney, N.S.W., p. 33,450.

Balmaz-Ujwaros, t. Hungary, 14 m. W. of Belreczin, p. 15,000.

Dailbardo, per. Scotland, on R. Tay, N. Fife, p. 968. Balmertad, pul. Victoria, Dundas co., soq m. W. Mebourne. [Abenbenshire. Balmeral, poyal residence, on R. Dec, Scotland, W. Balmahua, sml. ssl. W. Scotland, Jura, co. Agyll, slate

Stalinarus, Sin. 11. W. Goulant, Jucq. vo. 102, 11. Super-quarries.

Balotrie, t. in Jodhpur, st. Rajputana, India, p. 7,475.

Balquhidder, par. Scotland, co. Perth (includes vil. of Loch-earn Head), p. 664. [the Mutiny, p. 15,000.

Balramadt, t. N.S.W., on Murrumblidge R., p. 1,504.

Balsall Heath, t. Worcestershire, Eug. (suburb of

Birmingham, p. 39,888.

Balta, one of the Shetland Isls, Scotland, to the E. or Ulst; also t. Russian Poland, on Kodyma R., p. 27,419.
Baltia, an z.l. off the coast of Scythia, which gave its name to the Baltic Sea.

Battic and North Sea Canal, from the Eibe to the North Sea at Kiel, constructed by Germany, at a cost of £8,000,000, between 1887 and 1895 for strategic [Finland.

use.

Baltic Port, sm. sét. of Russia, in Esthonia, nr. G. of
Baltic Provinces. The three Russian Govts, of Conland, Esthonia, Livonia, and St. Petersburg; German
much spoken along the coast, though the bowlerland
has been greatly Russianused in recent years.

Baltic Sea, inland sea, Europe, an arm of the
Atlantic, enclosed by Russia, Germany, Sweden,
Denmark; 900 m. long; greatest width soo m., area
tho.cos s. m.

Baltimore, sml. set. Ireland, co. Cork, nv. C. Clear, also c. and spt. in Maryland, U.S.A., near head of Chesapeake Bay; fine harbour; extensive trade; b. 58.48; also to ether townships in various parts of the U.S.A.; also t. in Northumberland, co. Ontario, **2.** 3,400.

Baltingiase, mkt. I. Ireland, on R. Sieney, co. Wicklow, p. 1, 100.

Baltingiase, mkt. I. Ireland, on R. Sieney, co. Baltistan, or Little Tibet, prov. Cashmir, Upper Baluchistan, country, Asia, S. of Afghanistan, between Indua and Persua, langely a desert, cap. Khelet. Estimated area 130,000 sq. m., p. 800,000. Brit. Estimated area 130,000 sq. m., p. 800,000. Brit. Balvane, I. in Potenza, prov. Italy, p. 3,800. Teath. Balvane, I. in Potenza, prov. Italy, p. 3,800. Teath. Balvane, I. in Potenza, prov. Italy, p. 3,800. Teath. Balvane, I. in Potenza, of Limpopo, R., Bechanaliand Protectorate, area (with Batwana) 120,000 sq. m., p. 40,000.

Bamba, I. and Prov. Congo, W. Africa; coffee Bambarae, negro territory, French W. Africa, cap. Sego, on Niger; p. 2,000,000.

Bambae, I. in Upper Francevia, on R. Regnitz, p. 41,686.

Bambarough, 71. and castle on Northumbrian coast, Bambuk or Bambouk, gold and iron dist. in Sonegamba, W. Africa, has French stations, inkabitants Mandingoes.

Bamian, L. and 711. Soues, Afghanistan, N.W. of Cabul. Rock-cut. cayes and colossal Buddhiet

Bamian, & and min. pass, Afghanistan, N.W. of Cabul, Rock-cut caves and colossal Buddhist statues.

Bamm, fortified t. in Persia, S.E. Kerman, p. 20,000.
Bammako, Bomoko, Bammaku, or Bammakou,
French str. on Upper Niger, W. Africa, formerly an
important native town of the Bambara State.

Bamoni, t. in Rangpur dis., Bengal, India, p. 6,895.
Bampton, t. hr. Tiverton, co. Devon; mkt. t. nr.
Witney, co. Oxford; and vil. on R. Lowther, co. Westmorland, Eng.

Westnorland, Eng.

Bamra, feudatory state, N.W. Prov. India, area 1,988 Sq. Nu., p. 123,280.

Banagher, t. on Shannon, Ireland, p. 1,200.

Banagher, t. on Shannon, Ireland, p. 2,200.

Banana, t. and post nr. mouth of Congo R., Africa; also sm. t. in Ferguson co., Queensland, 320 m. N. of Brizbune.

[Africa, belonging to Gt. Brit.

Banana Isls., sm. group nr. Sierra Leone, N.W.

Banana Isls., on R. Araguny, Brazil, length 480 m.,

Banas, R. in Raputana, India, 300 m. (width 50 m.)

Banat, dist, in Hungary, between the Danube, Thesis, and Maros; chf. t., Temeswar.

[Iroland, p. 5,000.

Banbridge, linen mfg. t. on Bann R., co. Down,

Bantury, t. Oxfordsh. 80 m. from London, famious for tits Cross, cakes, ale, and cheese, p. 13,462.

SEADULTY, i. Oxfordsh. 80 m. from London, famious for its Cross, cakes, ale, and choese, p. 13,462.

Banca, 4,458 sq. m., p. roc.oco: famous the 121. in Dutch E. Indies, off coast of Sumatre.

Banchtory, t. in co. Kincardine, Scotl., p. 1,693.

Banda, A. N.W. Prov. India, Allahabid Div., p. 83,000; cap. of barren dist., area 3,060 sq. m., p. 631,397; greatly decreased through famine during last decade.

Banda Isls., group in Moluccas, D. E. Indies, produce nutmegs and mace, p. 6,000.

Banda Oriental. (See Uruguay.)

Banda Oriental. (See Uruguay.)
Banda Sea, in Malay Archipelago, N. of Timor.
Bandawe, miss. str., on Lake Nyassa, Central Africa,
Bandelkhand, or Bundelkhand (22,351 sq. m., p. 25
millions), a group of native States in N. W. Prov., India.
Bander Abbasi, formerly Gonbrun, t. of Persia on
P. Gulf, very insalubious, p. 20,000.
Bander Lingah, ch. port for prov. of Laristan, Persian
Gulf p. verto.

Gulf, p. 10,560. Bandon, f. on Bandon R., co Cork, Ireland, p. 2,830.

Baneros, £ m Alicante, Spain, p. 3,205.

Banff, co. £ on Moray Firth, Scotland, 50 m. N. of

Aberdeen, p. 3,82z.
Banfii-Hunyad, met. t., co. Kolozs, Hungary, p. 4,50o.
Banfishire (630 sq. m., p. 61,402), mandme co. in N.E.

Scotland,

Scotano,
Banga, t. in Jalandhar dist., Punjab, India, p. 4,50c.
Bangalore, fort. t. in Mysore. India, p. 250,550 (decreased 12 per cent. through plague daries last decade).

decade). Banganapalle, stats in S. India, nr. Madras, p. 32,279. Bangkok, cap. of Siam, on Menam R., so m. from the sea. Great tracke, p. 626,675.
Banger, s. (one of the Carnarvon boroughs) on Menal Straits, N. Wales, port for Pemphyn wiate quarries, p. 11,227; also wat. pl. nr. Belfast, co. Jown, fresend, p. 11,227; also wat. pl. nr. Belfast, co. Jown, fresend, co. 2008. p. 5.003, also port on Penebscot R., Maine, U.S.A.,

p. 21,850; also t. (with slate quarries). Northampton co., Pennsylvania, U.S.A., p. 2,500.

Sangweolo, or Bemba, or Basgweulu, L. in Brit. E. Cent. Africa, 130 m. long by 80 wide, contains three-igh. Dr. Livingstone died at Illaia, on S. shore E. Cent. Africa, 130 m. long by 80 wide, contains three ight. Dr. Livingstone died at Illaia, on S. shore of this L., in 1873.

Banishukur, or Banjaluka, fort. L on N. frontier of Bosnia and bank of R. Verbas, p. 24,000.

Banisa, wil. of Palestine nr. Damascus, with castled fort of the Crusaders.

Banichal Pass, over Himalayas, Kashmir, India.
Banjarmassin, or Banjermassin, e, and dist. on Tatas
Isl., chief port of Dutch Borneo, formerly a Sultanate;

Isi, chief port of Dutch Borneo, formerly a Summanate, p. 50.000.

Banjeswangt, or Banjuwanwingia, 500r on Str. of Bali, E. Java, cap. of Residency, p. 8,000.

Banka, J. in Formosa on R. Tameui, p. 50.000.

Banka, J. in Formosa on R. Tameui, p. 50.000.

Banka, J. in Formosa on R. Tameui, p. 50.000.

Banka, J. in Formosa on R. Tameui, p. 50.000.

Banka, J. in Formosa on R. Tameui, p. 50.000.

Banka, J. in S. J. in S. Pacific, N.E. of New Hebrides.

Banka, group of sum. 1sts. in S. Pacific, N.E. of New Hebrides.

Banka, J. In J. I

Baskuna, f. in Bengal, Bardwan div., India, p. 29,000; of dist., 1,114,185; silk and induce industries. Bana, Upper and Lower, R., Ireland, risos in co. Down, and flows through Lough Neagh to Atlantic (90 m.) nr. Colcraine.

(90 m.) nr. Coloraine,

Bannockburn, 3 m. S. of Stirling, Scotl; Bruce's victory

over Edward II., June a4th, 1314; p. 250; also

mining t., Vincent co. (125 m. from Dunedm), New

Zealand.

[chf. t. Edwardesbad,

Bannu, dist. Derajat div., Pumjah, India, p. 403.072;

Bannu, attive state in prov. Gujerat, Bombay, India,

Bannda, native state in prov. Gujerat, Bombay, India, p. 34.000.
Barsdith, t., India, N.W. Prov., Ballia dist., ro.000.
Barsdith, t., India, N.W. Prov., dist., Gorakhpur, Banstead, t. in Surrey, Eng., p. 4.200 [p. 3.050.
Banswara, native state, Rejrustan Agency, India, p. 105.296. Suffered every heavily in recent famine years.
Bantam, Ducto residency, W. extremity of the Isl. of Java; suffered severely from fever and volcande erruption; cap. Sirang, p. 709,339. [Wiunipeg. Bantry, spt., Ireland, co. Cork, at head of Bantry Bay, p. 3.200.

p. 3.100.

p. 3.700.

Barkwa, t. in India, cap. of Kathiawar, Gujerat,
Barkwa, t. Wales, co. Montgomery, trih. of Vyrnwy R.
Baraba, steppes of S.W. Sileria, comprising the
Kainsk dist. of Tomsk, as well as Omsk and Tara of
Tobolsk, and many large Russian villages.
Bark Banks, t. and dr. m. Fizabad Div. of Oudh,
Brit, India, ar, Lucknow, p. 1,750,000.
Barabod, d. in Spain, prov. Biscay, on Bilboo R;
ironworks, p. 14,000.
Baracaide, t. in Spain, prov. Biscay, on Bilboo R;
ironworks, p. 14,000.
Baracaide, t., syria, in plain of Damascus (auctent
Abanal, falls into L. Shirkiyeh.
Baradine, t., 240 m. N. of Sythey, N.S.W., p. 460.
Baracaide, t., syon. N. of Sythey, N.S.W., p. 460.
Baracine, t., syon. N. of Sythey, N.S.W., p. 460.
Baracine, t., syon. N. of Sythey, N.S.W., p. 460.
Baracine, t. on R. Hooghli, India suburb of Calcutta,
p. 30,000.

p. 30,000. Barbacena, s. in Minas Gerses, Brazil, p. 6,000. Barbados, ss., most east. of Brit. W. Ind. Is.; sugar,

Barbados, &A., most east, of Brit. W. Ind. Is.; sugar, ginger, ect.; rós 69, m.; p. 17,189, cap. Bridgetown.
Barbaree, &A. on W. Coast of Ceylon.
Barbarry, N. patr of Africa, sucludes Morocco, Algeria,
Tunis, Tripoli, Barca, and Ferzan, 2,600 m. long;
Mohammedam p. 11,000,c
Barbarria, L. on the Chr. Saragovsa, Spain, p.
Barberiao, two towns in Italy, prov. Tuscahy, one
16 m. N., the other 16 m. S. W. of Florence, both
over 10,000 inhab.

over 10,000 mnan.

Barberton, mining L in Transvaal col., Brit. S. Africa,

De Kaap Goldsleds, p. 4,500.

Barbuda, st., one of the Brit. W. India Isls. to the

N. of Antigus, srea y5 sq. m. p. (about) 800.

Barby, L on Elbe, in Sarony, p. 5,500.

Barca, maritime Turkish terr., N. Afr., E. of Tripoli;

area 61,447 sq. m., p. 300,000.

Barcarrota, 7. in Spain, nr. Badajoz, p. 5,079. Barcadine Downs, sta. Queensland, Australia, 370 m.

W. Rockhampton,

W. Rock nampron.

Barcelona, 5td:lian t., prov. Messina, Italy, p. 24.000.

Barcelona, 5td. in Spain, cap. Barcelona prov.; founded by Hamilcar Barca, the Carthugunan; p. (of city,

by Hamilear Barcia, the Carthagman; p. (of city, including suburbs) 523,96; (of prov.) over a milion. Bardi, t. in prov. of Piacenza, Italy, p. 6679. Bardo, governmental castle, nr Tunis. Bardolino, t. in Italy, on L. Garda, nr. Verona, produces olives, p. 2,500. Itunie, Bardowick, snil. t. (with ruined cathedral) on R, limenau, Hanover, once chief trading t. of N. Germ. M. point of Cardigan Bay, retreat of Welsh bards; lighthouse; also smil. par. W.R. of Yorks, nr. Wetherby.

Bardwan, or Bordwan, div. dist. and t. in Henral.

Bardwan, or Bordwan, div. dist. and t. in Bengal, India; total area of div. 2,689 sq. m., p. 13 millions. Bardwan, the chief t., is 67 m. N. W of Calcutta, and

Bardwan, the chief t., is 69 m. N.W of Calcutta, and contains the Maharajah's palace, p. [of t.] 35,000.
Bardges, wat, pl. in the Hautes Pyrénées, France.
Barelly, d'iv. and c. on India. N.W. Prov. Rohilk hand, div. p. [of dist.] a militon; [of c.], 137,433.
Barentin, r. in France, dep. Seine-Inférieure, p. 5,082.
Barentz Sea, that part of Arctic Ocean E. of Spitzbergen, to North Cape.
Baretta, f in India, Tazabad dist., Oudh, on R. Gogra, Barfleur, fishing vil. France, dep. La Manche, 15 m. E of Cherbourg, p. 1,200.
Baret, in Italy, prov. 1,200.
Bares, d. in Italy, prov. 1,200.

Barga, t. in Italy, prov. Lucca, p. 3,000.
Barge, t. Italy, Corni prov., p. 10,000.
Bargeddle and Dykchead, 21t. nr. Coatbridge, Lanark co., Scot., p. 1,500.

Barguzin, dist. t. of E. Siberia, 27 m. from L. Baikal,
Bar Harbour, summer resort in Hancock co., Maine, U.S.A. p. 2,000. Barhaj, t. in Gorakhpur dist., N.W. prov., India, Barl, per, and ret. S. Italy, on Adriatic, 6g m. N.W. of Brindiss, p. (of t.) 79,693; (of prov.) 824,000. Baringhup, t. of Talbot co., Victoria, p. 1,000. Baringhup, t. of Talbot co., Victoria, p. 1,000. Baringhup, t. of Birth. India, Backergunge dist., Bengal, and the straight of the p. 1, 1,5,500.

impt. river trade stn., p. 15,500.

Barking, t. on Roding R., Essex, Eng., gunpowder plot concocted here; now manufacturing dist., p. 31,302. [p. 1,629, Barkisland, township nr. Halifax, W. R. Yorks, Barkiy, mining t. Kara co., Victoria, 146 m. N.W. clbourne.

Barkly Bass, t. Cape Colony, 34 m. from Aliwal North on Kraal R., p. 2,500. Barkly West, t. on Vaal R., Griqualand West, dissend diggings, now almost exhausted, p. about

Barkol, t and L., E. Turkestan.
Barle, K., rising in Exmoor, Somerset, Eng., trib. of
the Ex.

Bar-le-Duc, cap. of preuse control military, p. 44,891.
Cotton military prov., Bari, tartaric acid
Barretee, suburb of Hamburg city, Germany,
p. 8,400.

In Rhemsh Prussia, Bar-le-Duc, cap. of Meuse dep., 125 m. E. Paris; p. 8,400. [adjoining Elberfeld, p. 142,000. Barmen, important mits. t. in Rhemsh Prussa, Barmouth, wat. M. Merionethshire, N. Wales, [b. 8,000. Barnagar, t. India, Cent. Prov., Gwalior dist., Barnard Castle, mkt. t. Durham, Eng., on R. Tees, P. 4.757. [p. 20,408. Barnaul, Russian t. Tomsk, W. Siberia, mining; Barnes, suburb of London, on the Thames, Eng.,

Barnes, subset of London, de London, divided into 3 dists., Chipping Barnet, or High Barnet, East Barnet, and New Barnet, p. 10f urban. dist. of Barnet land New Barnet, p. 10f urban. dist. of Barnet land, (of E. B. Valley urban dist.), ws.38x. Barnet lo,440; (of E. B. Valley urban dist.), ws.38x. Barnet lo,40; (of E. B. Valley urban dist.), ws.38x. Barnet lo, 6; (of E. B. Valley urban dist.), ws.38x. Barnetadas, ns. Armhem, p. 7,500.
Barnetable, f. W. R. Yorks, Eng., p. 9,699.
Barnetable, fishery t. on Cape Cod Bay, Mass, U.S.A., [p. 14,484].

D. 4,264.

p. 4,364. (p. 14,488, Barnstsple, mkt. 4, and port on R. Tgw, N. Devon. Baroda, native state, Western India; area 8,090 sq. m.,

p. over 2,000,000; f. in Bombay Pres., p. 99,345; cap. of territory of the Gaekwar, 250 m. N. of Bombay. Barotse, country of S. Central Africa, on the Upper Zambesi, governed by a native king, under British

influence.

Barquisimeto, the cas. of Lara State, Venezuela, important trade centre, p. 40,000.

Barra, t. in Lower Alsace, at Foot of Vosges, p. 6,000.

Barra Lels., southerly groups, Outer Hebrides, Scott., area 348 sq. m. lighthouse on Barra Head, p. 2,600.

Barra, sm. mat. state, W. Atrica, at mouth of Gambia R., p. 200,000; mainly Mandingoes,; chf. Barratha, t. in Darling co., N.S.W., 311 m. N. of Barracha, t. in Darling co., N.S.W., 311 m. N. of Barracha, t. h. Moogli, 25 m. above Calcutta, India. Park contains country residence of Viotroy, p. 21,000.

p. 21,000.

Barrafranca, t. in Sicily, in the Italian prov. of Caltanisacta; sulphur springs and mines, p. 11,000.

Barrage, vil. in Egypt, on Nile, 35 m. N. of Cairo,

Barrage, vil. in Egypt, on Nile, 35 m. N. of Cairo, p., 1500.

Barranquilla, port on Magdalena R. in Bolwar dep. of Columbia, S. Amercia, rivals Cartagena as commercial centre of the republic, p. 50,000.

Barre, e. of Washington, co. Vermont, U.S.A., Barren Rai, wolcano in B. of Bengal.

Barren Rai, in Kentucky (120 m.), U.S.A., Joins Green R., N.W. of Bowling Green. [Glasgow, p. 11, 367.

Barrhead, mftg. f., Renfrewshire, Scot., 7 m. S.W. of Barrier Ranges, boundary of S. Australia and N.S.W., alt., 2,000 ft.

Barrier Reef, Great, coral reef extending for 1,200 m., 10 to 150 m. N.E. from coast of Australia. [Sydney Barringun, township of N.S.W., 640 m. N.W. of Barrow, vil. in Spain, 16 m. S.E. of Cadiz; Brit. victory, 1811. [Ireland; also in Canada, U.S.A. Barrow, C. on Coronation G., north coast of Brit. N. America.

America.

Barrow, R., Leinster, Ireland, rises in Slieve Bloom Mrns, and flows (roo m.) to Waterford Harbour.

Barrow Falls, nr. Keswick, Cumberland.

Barrow-Palls, nr. Keswick, Cumberland.

Barrow-Point, in and steel t. and port N. Lancs., Eng., p. 63,775.

Barrow-Doint, most northerly headland in Alaska; also headland in S. Madagascar.

Barry, "outport" of Cardiff, Wales, p. 33,767.

Barry, "outport" of Cardiff, Wales, p. 30,767.

Barry, "outport of Cardiff, Wales, p. 30,767.

Barry, "outport" of Cardiff, Wales, p. 30,767.

Barry, "outport of Cardiff, Wa

Seine, p. 3,400.

Bartan, f. in Anatolia, 45 m N. of Ereglee, p. 7,200.

Bartan, f. in Anatolia, 45 m N. of Ereglee, p. 7,200.

Bartfeld, f. on Topia R., Hungary, p. 6,000.

Barth, spt. of Prussia, prov. Pomerania, p. 6,900

Bartholomew Bayou, R. (275 m.) in Arkansas, U.S.A. Barton-on-Humber, L., Lincs., Eng., p. 6,676. Barton-on-Irwell. mftg. L., 5 m. W. of Manchester,

p. 49,937. Mary, sub. of Gloucester city. Eig. Barton St. Mary, sub. of Gloucester city. Eig. Barvas, sur. m the Hebrides, Isle of Lewis, co. Ross., Scotl., p. 6,934. Blombay, India, p. 5,37. Barwala, walled £. 80 m. S.W. of Ahmadabad, Barwani, native State of India, Bhopawar Agency, and m. p. 8,00,00.

Barwali, native State of India, Buopana. ...

area, 1,362 SG, m., p. 80,000.

Basel or Bale, one of the Swiss cantons, divided into Baselstadt and Basel Landschaft; area, 177 sq. m. p. 180,724. Basel or Bale city, the cap, is a centre of missionary enterprise, p. 100,229.

Bashan, hill country, E. of Jordan, Palestine.

Bashar, antive State in India, and the Himalaya mtn. dist. of the Punjab, area 3,300 sq. m., p. 70,000.

Bashurat, f. in Hengal India, p. 15,400.

Basim, t. and sixt. in Berar, India, p. (of t.) 13,000 (of dist.) 353,522.

dist.) 353,522. [London, p. 11,5]
Basing stoke, mfig. £ in N. Hants., Eng., 50 m.
Basie (See Basel of Bale.)

Basiow, c. in Derbyshire, Eng., nr. Bakewell, p. 858. Basossa, gold field, S. Australia, 34 m. E. of Adelaide. Basque Provinces, in N. Spain (Pyrenees), subdivided

into (1) Alva; (2) Biscaya; (3) Guipuzcoa. Total area, 2,968 sq. m., p. (about) 610,000. Basra of Bassora, 2000. on Euphrates, Asiatic Turkey, Basra or Hassora, prov. on Euphrates, Asiatic Turkey, 60 m, from the sea, p. 90,000; cap. of vilayet of same name, including the great marshy dist. of the Lower Euphrates and Tgirsi, with a p. of nearly a million. Bass Rock, in Firth of Forth, opposite Tantalion Castle, nr. N. Berwick, a mile round. Bassa straits, between Victoria and Tasmania; length abt. 200 m., breadth about 140. Bassa, 59%. Upper Guines, W. Africa. [Gold Coast. Bassam or Grand Bassam, French 4. in Africa on Bassamo, t. N. Italy, prov. Vicenza, at foot of Venetian Albs. D. Roco (of commune, 15,000). [In. 11,000.]

Bassano, A. N. Italy, prov. Vicenza, at foot of Venetian Alpa, p. 8,000 (of commune, 15,000). fp. 11.000. Bassein, A. in Thana dist. of India, so m. Bassemthwate Water, picturesque L. in Cumberland, Eng., 4 m. long, nr. Keswick.

Basse-Terre, chief L. of St. Christopher, one of the West India Isls, p. 8,000; also cap, of Guadeloupe Isl., French West Indies, p. 10,220. [3,850. Bassignam, L. in Italy, 8 m. N.E. of Alessandria, p. Bassand, L. in Sweden, on Cattegat, p. 1,140. Bastar, feut. State, Brit. India, Central Provs., area, 13,050 m.; chief. t. and res. of Rajah, Jagdalpur, on R. Indravati. p. 305,544. in Sweden.

Basti, spt. and fortified t. of Corsica, N.E. coasts, p. 200540. Bastogne, t in Belgium, prov. Luxembourg, p. 3,000.
Basuto Land, prov. Brit. South Africa, at head of Orange R., and enclosed on S. by the Drak mberg Mtns.; area 11,716 sq. m., p. 405,000. Sometimes styled the "Switzerland of South Africa."

Batala, & in Brit. India ; Gurda: pur div. of the Punjab ;

import trade centre, p. 27,000.

Batalha, t. in Portugal, mr. Leria, p. 3,800.

Batalha, t. on N.E. coast of Java: cap. Dutch E.

Indies, p. 120,000; also mftg. t. N. York, U.S.A.,

Indies, p. asymptop.
p. 9,500.

Bateman's Bay, N.S. W., 122 m. S. W. of Port Jackson;
also spt. on Clyde R., co. St. Vincent, N.S. W., 200 m.
S. of Sydney.
[important commercial centre.
Batesar, t. in India, Agra dist, on the Jumna R.;
Batesford, post t., co. Grant, Victoria, 48 m. S. W., of

Bath, c. Sonnerset, Eng., on R. Avon, hot springs; p. (of parl. bor) 53,678; also spt. Maine, U.S.A., p. 10,479; also t. N. Y. State, U.S.A., on the Cohocton R., p. 4,994.

Bathampton, sub. of Bath, Somerset, on the Avon. Bathgate, L. Linhthgow, co. Scotl., mining and oil

works; p. 8,226

works; p. 8,226.
Bathurst, J. N.S. W., Australia, sixth c. in the Colony.
p. 9,227; also British spt. at mouth of Gambia, W.
Africa, p. 7,000; also t. Canada, prov. N. Brunsmick, N. Coast, p. 980; also isl. off coast of Australia,
30 m. long.; also large isl. in Arctic Ocean, discovered

30 m. long.; also large isl. in Arctic Ocean, discovered by Parry. E. coast of Ceylon, 68 m. S.E. of Tribatiscan, R., Quebec (50 m.); also t. (117 m. N.E. of Montreal) on bank of R.; Batiscan Bridge is a smaller township nr. the junction with the St. Lawrence. [8 m. from Leeds, p. 36,395. Batley, heavy woollen mfg. t., W.R. Yorkshire, Eng., Baton Rouge, c.p. of Louisana State, U.S.A., on Mississippi, p. 11,265. Scene of heavy fighting in the Civil War, 1862. Also t. Chester co., S. Carolina, U.S.A., 2 250.

Civil War, 1862. Also t. Chester co., S. Carolina, U.S.A., P. 3,559. Battonza, f. Hungary, 25 m. E.N.E. of Mako, p. 10,000. Batoum or Batum, 1964. Assatic Russia, on E. coast of Black Sca, p. 28,500. Battaglia, Venetian L. prov. Padua, Italy; hot sulphur Battambang, chf. 40 forev. of sume name in French Cambodia; p. of t. 5,000, of prov. 50,000. Battam Isl., Malay Archip, 20 m. S. Singapore. Battassek, 4. Tolna co., Hungary, on Danube, p. 7,100; also sm. t. on R. Eder in Hesse-Nassau, Prussia, p. 1,645. Battenheim, 1914. In Alsace, nr. Mulhausen, p. 1,150. Battersea, 11th Alsace, nr. Mulhausen, p. 1,150. Battersea, 11

Battle, t. in Belgium, prov. Liège, p. 4,140.
Battle, t. in Sussex, Eng.; battle of Hastings fought here, 1065; p. 2,044; also R. in Canada, affl. of Saskatchewan, rising in Alberta Terr.
Battle Creek, on Kalamazoo K., Calhoun co., Michigan,

Battle Creek, on Kalamazoo R., Calhoun co., Michigan, U.S.A., engineering and woollen manuf., p. 25,267.

Battlefield, par. Shropshire, Eng., nr. Shrewsbury, where Hotspur was slain in 1203.

Battleford, C. Canada, 121 junction of Battle R. with Saskatchewan, formerly cap. of N.W. Terr., p. 5,000.

Battle Harbour, nr. Strait of Belle Isle, Labrador.

Battock, min. Scotl., in the Grampians, Kincardinesh., alt. 2,538 ft.

att. 2,538 ft.

Batwin, f. in Russia, 63 m. E. of Chernigor, p. 3,650.

Bauan, f. in Lussau, Philippine Isls., fine ch., p. 30,000.

Bauco, f. in Italy, prov. Rome, p. 3,800.

Band, t. in France, dep. Morbihan, p. 4,376.
Baul, t. in Venezuela, 40 in. S. of San Carlos, p. 20,015.
Baures, R. in E. Bolivia, flowing from L. Guazamire to R. Guapore.

Bautzen, ensternmost prov. of Saxony, area 953 sq. m., p. 370,739; cap. Bautzen, on R. Spree, 33 in. N.E. of Dresden, p. 26516.

p. 370,739; Calp. Bautzen, on A. Spree, 33 in. N.L. or Dressden, p. 26516.

Bavaria (29,282 sq. m., p. over 6 millions), second largest State in German Empire, cap. Munch.

Bawan, f. India, Hardou dast, Oudh, p. 3,580. [4,500]

Bawan Buzurg, f. Muda, Ran Bareli dist., Oudh, p. 18,500.

Bawar, or Buzurg, f. in India, fon R. Guiges, p. 46,500.

Bayarn, f. in India, fon R. Guiges, p. 46,500.

Bayazid, or Bayezid, fortified f. Armenia, As. Turkey, 15, m.S. of Ararat, p. 5,000.

Bay Bay, f. in Leyte, Philippine Isls., important commercial port, p. 17,000.

Bay City, miftg. f. on Saginaw R., Mich., U.S.A. tidm. N.W., of Detroit, p. 45,166.

Bayeux, f. in Normandy, France, 7 m. from Caen, famous for tapestry, p. 8,102.

Bay Isl, group in Gulf of Honduras, Central America; largest, Rustan, total p. 5,000.

largest, Ruatan, total p 5,000. [p. 10 041. Baylen, or Baulen, & in Spain, 55 m. N. Gran ida, Bay of Islands, inlet and harbour on North Isl., New Bay of Islands, miet and harbour on North Isl., New Zealand; also esttlement on W. coast of Newfoundland, 55 m. N.E. of Cape St. George.

Bayonne, fort. L. dep. Basses. Pyrévidex, S.W. France, noted for fine hams and for the invention of hayoner, p. 27,601; also chemical mifg. t. in New Jersey.

U.S.A. 6 m. from New York, p. 55,545.

Bayreuth, cap. U.P. Francoma, Bayaria, home of Wagner. Famous for musical festivals in magnif.

national theatre, p. about 30,000.

Bay Roberts, spt. 8 in. S. Harbour Grace, Newfound land, p. 2,600.

Bay St. Louis, wat. pl. on G. of Mexico, Mississippi,
Bayswater, populous W. district of London, Middiesex, Eng.

Bay Verte, on S. side Northumberland Strait, between Nova Scotla and New Brunswick.

Bazardjik, f, in Bulgaria, 27 m. N. of Varna: captured by Russaus in 1774 and 1810, p. 10,000. [Adelaude Beach Port, f, a. Grey, South Australia, 288 m. S. f Beachty Head, 275 ft. high, on Sussex coast, lothest headland South of Eng.

headland South of Eng.

Beaconsfield, \(\elline{\}\) in Bucks, 10 m. of Windsor, Eng.,
p. 2,311; also t. in Tasmania, 33 m. N.W. Launcesten;
also t. in Damond Fjelds, nr. Kumberley, S. Africa,
Beamhaster, \(\elline{\}\) in co. Dorset, Eng., p. 0,213. [p. 22,40.

Bear Isl, m. Arctic Oc., 315 m. S. of Spitztergen; also
groups of isls. N. of Siberna.

Bear Lake, on border of Idaho and Utah, from
which Bear R. flows to Great Salt Lake.

Bear Lake, Great fix_coo sq. m.), N.W.T., Canada;
has its outlet through the Great Bear R. mto the
Markengie.

Mackenzie.

Bear Mt., a hill (750 ft.) in Dauphin Co., Penn., U.S.A.
Bearn, old name of French prov. now called BassesPyrénées.

Pyrénées. R. of the Punjab, one of the affits, (250 m.) of the Sutlej; rises in Kultu mits., 13,326 ft. above the sea. [Neb., U.S.A., p. 7,875. Beatrice, health resort on Big Blue R., Gage co., Beaucaire, t. on Rhone R., S.E. France, dep., Gard, soted for its fair, p. 9,724.

Beaucourt, t. (copper and iron mfts.) in France, 10 m. S.E. Bellort, p. 4.750. Beaufort, 5th. on N. Carolina, N. of Newport R., U.S.A., p. 2.795; also wat, pl. S. Carolina, on Port Royal Harbour, p. 4.100; also vl. in France, dep. Sarthe, p. 1.753; also t. in France, dep. Savoy, p. 4.602; also t. in France, dep. Savoy, p. 4.602; also t. in France, dep. Manue-et-Loure (gave title to Eng. Beauforts), p. 4.850; also vl. nr. Tredegar, Monmouth co., Eng., extensive ironworks; also t. Victoria, 129 m. W.-N.W. of Milboure, p. 4.10.

works; also t. Victoria, 129 m. W.-N.W. of McBourne, p. 5,140.

Beaufort, West, t. and div., Cape Colony, S. Africa, p. (of t.) 2,000. (of div.) 10,550.

Beaujalois, old French prov., now the wine-growing dist. of deps. Loire and Rhône.

Beaulieu, par. in co. Hants, Eng., 6 m. N.E. of Lymington, p. 1,000; also t. m France, dep. Corrèze on the Dordonne, p. 2,250.

Beauly, R. and vil. 10 m. W. from Inverness. Scotland: R. flows 10 Beauly Loch.

Beaumaris, war. pl. on Menai Str.; cap. of Anglesey, Wales, p. 2,233. [trade m Burgundy wine, p. 14,000.

Wales, p. 2,232. Itrade in Burgundy wine, p. 14,000.
Beaune, l. in Côte d'Or dep., France, extensive
Beautiful Valley, or Wilmington, co. Frome, S. Australia.

Australia.

Beauvais, (ap. of Oise, dep. France, 55 m. N. of Paris, noteworthy cathedral, 13th century architecture, p. 20,000.

Beauval, f. France, dep Somme, 14 m. N.E. of Beauval, f. France, dep Somme, 14 m. N.E. of Beauval, f. Paris, p. 20,000.

France, p 2.450.

Brawer City, (ap. of Beaver co., Oklahoma, U.S.A.

Beaver Creek, R. in N.W. Kanas and S. Nebraska,

tril. of the Republican R., length 200 m.

Beaverdam, c. of Wisconsin, Dodge co., U.S.A., summer resort on Beaverdam L., p. 5, 128. Beaver Falls, t in Penn., U.S.A., coal and natural gas

shimmer resort on Deaverusan L., p. 3, 180.

Beaver Falls, f in Penn., U.S.A., coal and natural gas region, p. 10, 500.

Beaver Islands, group in N. part of L. Michigan, Manttou co., U.S.A.; largest, Big Beaver, at m. long. Beaver R., in W. Penn., U.S.A., formed by union of Mahoning and Shenango K., joins the Ohio nr. Beaver Falls.

Beaverton, vid. on L. Simcoe, Ontario, Canada.
Beaut, or Beawar, l. Rajputana, India, Merwara dist.; cotton growing, p. 20,000.

Behington, I. Cheshire, Eng., on Mersey, 3 m. S.E. of lirkched, p. 13,011.

Bécancour, l. in Queliec, Canada, cap. Nicolet co., p. 2,500; on P. Bécancour (20 in.), affit. of St. Lawrence.

Beccles, l. Suffolk, Eng., on R. Waveney, 17 m. S.E. of Bechuanaland, Brit. Colony and Protectorate in S. Africa; stretching from Orange R. to the Zambesi, and merging westward in the Kalahari deser; divided into N. and S. Bechuanaland; total ares 27,000 Sq. m., p. (abdut) 125,000.

Becklenham, l. Kent, and residential suburb of London, Eng., p. 21.603.

London, Eng., p. 31.093.

Beckum, t. in Westphalia, Prussia, nr. Munster,

Becse (New and Old), two t.'s in lungary (N.), 40 n.

S.E. of Zombar, p. 7,200; (U.) 50 in. S. of Szegedin p 15,000, [allerton, p. 6,939]
Bedale, unkt. c. N. R. of Yorks, Eng., nr. NorthBedanga, c. in Murshidabad dist. of Bengal, India,

Bedangs, A. in Murshidabad dist. of Bengal, India, p. 5,500.
Bedden, torthfied L. on Nile, Equatorial Africa, between Beddgelert, vol. N. Wales, co.'s of Camarwon and Merioneth; tounst resort, p. 1,500.
Beddington, vol. Surrey, Eng., nr. Croydon, p. 6,500.
Beddington, vol. Surrey, Eng., nr. Croydon, p. 6,500.
Beddguas, forthfield L. in Bornu Kingdom, Africa.
Bedford (mftg. and mkt. L), on R. Ouse, 50 m. N. of London, Eng.; Buyan (born at Eistow, adjacent vil.) wrote Pilgrim's Progress in Bed. Jail; p. 93,185; also t. in Lancashire, Eng., nr. Legh, p. 7,500; also t. Pa., U.S.A., p. 2,107; c. Indiana, p. 6,175; c. Virginla, p. 3,500; also tame of county in each of the U.S., Pa., Ten., Va.; also div. and t. of C. Colony. Bedfordshire, agricul S. Midland co., Eng., 4,667 sq. m., p. 194,655.
Bedford Level, marshy dist., area 450,000 acres, in co.'s Suffolk, Huntingdon, Norfolk, Horthampton, Lincoln, and the Isle of Ely. The draining was begun by the then Earl of Bedford in 1634.

Bedikarii, large fortified native t. in Africa Bornu

Kundom.
Bediszole, vil. nr. Brescia, Italy, p. 3,850.
Bediszole, vil. nr. Brescia, Italy, p. 3,850.
Bediington, Ł Northumbertand, Eng., nr. Morpeth, iron and coal; p. 25,597.
Bedminster, Ł Somerset, Eng., suburb of Bristol, Bedonia, Ł in Italy, nr. Borgo Toro, p. 8,000.
Bedouia, Ł in dep. of Vaucluse, France, p. 2,400.
Bedum, Ł nr. Appingedam, Holland, p. 5,500.
Bedwelty, Ł on Welsh border of co. Monmouth; coal and iron works, D. 22,851.

sequenty, t. on Welsh border of co. Monmouth; coal and iron works, p. 22,551.

Bedworth, colliery t. Warwick, Eng., 3 m S. Nuneaton, p. 7,000.

[Australia, p. 7,359.

Beechworth, ch. t., Ovens goldfield dist., Victoria, Beechw Point, C., N.E. coast, Alaska.

[In 7,500.

Beek, t. nr. conflu. of Rhine and Emsche R., Prussia, Beemaning Mitn., highest peak Blue Mins, N.S.W., alt. 4,100 ft.

ait. 4, 100 ft.

Beekmantown, vill Clinton, co. New York, U.S.A.,
Beenleigh, t. Queensland, 24 m. S. Brisbane, p. 850
(of. dist 6,500). [Mediungen, Germany, ait 3,225 ft.
Beerberg, highest mir., of the Thurngerwald, nr.
Beerfelden, vil. in Hesse, Germany, p. 2,540.

Beernem, t. of West Flanders, Belgium, nr. Bruges, p. 5,000.

p. 5,000.

Beersheba, ruined anct. frontier post m S. of Beersta, t. in prov. of E Gröungen, Holland, p. 5,000

Beeskow, t. in prov. ot Brandenburg, on R. Spree,

Prussia, p. 1, 4,000.

Beeston, t. in co Notungham (sub of city), Eng., p. 11,341; also outlying sub of Leeds, W.R. Yorks, [Ireland, Warsch

p. 11,341; also outlying sun of Leen, w.K. 707k, p. 3750.

Beg. Lough, co. Antrim, above Lough Neagh, Bega, t. on R. Bega, co. Auckland, New Zealand, 25 m. S.W. of Sydney; cheese factories, p. 2,540; also R. and canal in S. Hungary, thi. to R. Theiss.

Begamabad, A. m. Meerut, India, p. 2,253.

Begharmi or Baghirmi, country of Central Soudan, S. of L. Chad, N. Africa; cap. Mavenia. [p. 12,500.

Bégles, infig. t. dep. Gironde, France, m. Berdeaux, Beg-Shabr or Bey-Shish, L. [25] in long] and sm. t. on bank, in Konleh vilayet, Asiatic Turkey.

Behar and Orissa, new prov. But India, comprising

Behar and Orissa, new 1000. But India, comprising Behar, Orissa, and Chota-Nagpur (formerly part of Bengal), as well as the Sambalpur district; total area 113,000 sq. m., pop. over 35,000,000. Patna, the chief city, has a pop. of about 137,000.

Behbehan or Babahan, c. in Fars prov., Persia;

Behbehan or Bahahan, t. in Fars prov., Fersia; p. 10,500.
Behring Ist, or Bering Ist, the most W. of the Aleutian Group in the N. Pacific.
Behring Sea, part of N. Pacific Ocean between the Aleutian Ist, and Behring Str., upwards of 1,600 m, also called the Sea of Kamchatka; Behring Str. is the narrow sea which separates Asia (Siberia) from N. America (Alaska); 5 m: wide at narrowest part.
Bellan, t. and min. pass in Syria, Asiatic Turkey, E. of G. of Iskanderoon; the anc. Amanus or "Syrian Gates." Here the Egyptians under Ibrahim Pasha defeated the Turks in 1822 i. of modern t. 6,000.

Gates." Here the Egyptians under Ibrahim Pasha defeated the Turks in 1832; p of modern t., 6,000. Beilen, r. Drenthe, Holland, nr. Assen, on Haveltor

R., p. 500.
Beilingries, sm. A. in Franconia, B. 1970.
Beilingries, sm. A. in Franconia, B. 1971.
Beira, 3-190.
Fortugal on Spanish border: area, 9,248 sq. m., p. 1,500,000, cap. Colimbrar; also port on Massansone B. in the Indian Ocean, at mouth of

on Massansone B. in the Indian Ocean, at mouth of Pungwe R., important point of Portuguese E. Africa, Peirut. (See Beyruit.)

Beit-el-Fakih, f. Yemen, Arsha, on Red Sea, N. of Mocha; coffee trade; p. 8,000.

Beith, industl. f. N. Ayr, so m. from Glasgow, Scotl, Beitstad, f. Norway, 55 m. N.E. Trondlijzm, on Beitstad Fjord, p. 5,000.

Beitstad Fjord, p. 5,000.

Beja, f. in Alemtejo prov., Portugal, the Roman "Pax Julia," p. 9,000, in pig-breeding dist.

Bejar, f. prov. Salamanca, Spain; cloth mits., Bejetsk, f. govt. of Tver, Russia, great annual fair, p. Belucal, f. Cuba, 15 m. from Havanna, p. 8,000.

Beluma, f. in Carabobo State, Venezuela, p. 8,500.

Beluma, f. in Carabobo State, Venezuela, p. 8,500.

Beluma, f. in Carabobo State, Venezuela, p. 8,500.

Bela or Las Bela, cof., of sml. Ind. State, S. of the Kaiat, Baluchistan, ruled by the Jam under protection of Brit. Raj; p. (of t.) 5,000. Also a t of

Brit. Ind., admin. hdqrs. of Pastabgarh dist. of Oudh, 80 m. from Benares, p. 9,000. Also a t. in Hungary, nr. Kesmark, p. 850.
Belair, upland r. S. Australia, 7 m. S.E. Adelside, Belaicazar, f. Spain, 45 m. N.N.W. Cordova, woojier-

country of dates. [monastery, p. 22,000.
Belem, t. Portugal, suburb of Lisbon, fine church and
Belen, t. in prov. Catamarca, Argentine Republic, p.

3,215. [p. 2,750 Belenyes, t. on Koros R., 30 m. S.E. of Grosswardein, Belesta, t. in prov. Ariège, 18 m. E. of Foix; wool and markle.

Belesta, I. in prov. Ariege, 18 m. E. of Fox; wool anismarble, p. 6,400.

Belfast, c. and spd. on B. Lough, co. Antrins, and partly co. Down, largest c. in Ireland, roo m. N. of Dublin; linen nift., shipbiniding, p. 385,492; also c. Maine, U.S.A., on Penobscot H. p. 4,05; also spi. of Victoria (sometimes called Port Fairy), r80 m. W.S.W. of Melbourne, p. 2,250.

Belford, A Northumberland, Eng., 15 m. S.E. Berwick, p. 5,06; also t. N.S.W., 138 m. N. Sydney, p. 840.

Belford, A Northumberland, Eng., 15 m. S.E. Berwick, p. 5,06; also t. N.S.W., 138 m. N. Sydney, p. 840.

Belford, A therefore and the Cosees, strongly fortified, p. 32,122.

[Persante, Prussia, 3, 800.

Belgard, A Pomerania, 16 m. S.W. of Coslit, on K. Belgaum, cap. of dist. Carmatic, Bombay Pres., India; cotton-weaving centre, p. 26,237. Belgaum dist. has-

cotton-weaving centre, p. 26,237. Belgaum dist, hasarea 4,659 ml, m. p. lust under a million, mainly engaged in growing millet, rice, gram, cotton, etc. Belgiojoso, f. in prov. Pavia, N. Italy, p. 4,788. Belgium (1,273 sq. m.), p. 6,700,000. Smgll, but

Belgium (1:373 sq. m.), p. 6,700,000. Small, but industrially limb, European co, enclosed by France, Holland, Germany, and the North Sea: cap. Purssels, chief p. Antwerp; universities at Ghent, Liege, Louvain, and the cap.

Louvain, and the cap. Beigordo or Bielgondo ("the white city"), on Donetr R., Russian Government Kursk, p. 23,500. Beigrade, c. cap. of Servia, at junc. of Save R. and the Danube; centre of trade between Austria-Hungary and the Balkans. Bombarded by Turks, 1862, p. 700097.

p. 70,097.

Belgrave, outlying par. nr. Leicestor, Eng. on R. Belgrave, S.W. dist of London, Eng., many residential, once a Thame-side marsh. [9. 550 heater). Publish Haddington co., Scotl.,

Here Boer prisoners of war were sent in 1901;

Beliary of Beliari, miti. min. and air., madras risor;
India. Here Boer prisoners of war were sent in 1901;
p. (of.) 58,000. area of dist. 5,075 sq m., p. 947,339.
Belias, f. on R. Anceiva, nr. Lisbon, Portugal, p. 2,800.
Beliae Pontaine, v.l. in the Vosges, nr. Espinal, France,
p. 1884; also cap. of Logan co., Ohio, U.S.A., p. 6,649.
Beliefonte, cap. of Centre co., Penn., U.S.A., os
Spring Creek, p. 4,276.
Beliegarde, French fort on Spanish frontier; also t. in
deps. Ain and Gard, France.
Belle Isle, st.l. and str. between Newfoundland and
Labrador, in Conception B.
Belienden Ker Hills, min. range in N. Queensland.
S. of Cairns; highest peak, 4,100 ft.
Believille, univ. t. on L. Ontarno, Canada, p. 9,171;
also a populous N.E. suburb of Faris; also t. in dep.
Rhône, nr. Lyons, France, p. 3,000; also cap. c. of
St. Clair co., Ill. U.S.A., p. 2000.
Bellevue, goldfield centre on Woolgar R., Queensland:
also t. on Lake Shore Ry., Ohio, U.S.A., p. 2,500;
also t. to Campbell co., Kentucky, p. 6,322.
Bellingham, pers. nr. Hexham, Northumberland co.,
Eng., p. 5,750.

Eng., p. 5.750.

Bellingona, & on R. Ticino, Switz., hr. Lugano. p.

Bellot Str., channel on Arctic coast, N. America;
suparates Boothia and N. Somerica.

separates Boothis and N. Somerset.
Bell Rock, or Inchcape, famous rock and lighthouse on E. coast Scoth, 12 m. S.E. of Arbroath. p. 8,766.
Bellshill, mining £ in Scoth, co. Lanark, nr. Ghagow, Ballusse, c. and *prov. in Venetla, N. Italy; area to prov. 1,903 eq. m., p. 192,400; cap. c. has a fine cathedral, and p. 18,649. [terr., from Rocky Mts. Belly, R. in Canada, affit. of Saskatchewan, in Alberta Belmant, 5 m. or Cape Ry. S. Africa, 56 m. S. of Kimberley; battle Nov. 23rd, 1899.
Belmant, £ in France, dep. Lofte, 24 m. N.E. Roanne, p. 3,500. There are in the U.S.A. no less than 27 places called Belmont, mostly sin. towns or villages; 5 also in Eng., one cach in N.S. W., Victoria, Nova Sootta, and Ontario; and one at Barbados in the W. Indies. Scotia, and W. Indies.

W. Indies.

Pelmonte, i. on the Mediterranean, nr. Cosenzo, Italy, p. 4,200; also i. in Spain, nr. Cuenca, p. 2,500.

Belmullet, fish, mi. in co. Mayo, nr. Ballina, p. 850.

Beloit, c. on Rock R., Wisconsin, U.S.A., p. 10,455.

Beloona, i. in India, Nagpur dut., Cent. Prov., p. 3,420.

Belovar free c. in Croatia, 42 m. E. of Agram, p. 4,173.

Belper, mftg. i. on Derwent R., co. Derby, Eng., p. 17,643.

Beltana, c., S. Australia, co. Frome, 382 m. N. of Belt, Great (37 m.) and Little (30 m.), two channels loading from the Ballit to the Kattegat and the North Sea.

[D. 3,700.

Belton, cap. of Belt co., Texas, U.S.A. on Leon R..

Belton, cap. of Beil co., Texas, U.S.A., on Leon R., Belturbet, mkt. L. on R. Erne, co. Cavan, Ireland, Beltuchistan. (See Baluchistan.)

sequentstan. (See Baluchistan.)
Belvedere, two L's in Italy, one on the Marches, W of Ancona, p. 2353; the other on the Mediterranean, 35 m. N. W. of Cosenzo, p. 5.204.
Belved, L in France, dep Dordonue, p. 2.350.
Belvidere, L in Illinois, cap. of Boone co.

Be in N. W. of Coselico, p. 5,200.

Belves, f. in France, deep Dordonne, p. 2,350.

Belvidere, f. in Illinois, cap of Boone co., p. 6,947; also t. in. Adelaide, S. Australia, p. 1,050.

Belvoir Castle (Duke of Kulkaudi, in. Grantham, on Lincofn and Leicester Border, Eng.

Belta, f. in Austrian Galicia, in. Lemburg, p. 4,960.

Bembatoka, bay on N. coast, Madagascar.

Ben Alder, min. of Grampian range, Scotl., in. Loch Erich, ali, 3,757 ft.

Benalia, f. Victoria, 122 m. N.E. Melbourne, in fruit Benares or Varanosi, famous sacred c on the Ganges, 430 m. N.W. of Calcutta. Great tiging in resort, p. 259,059.

Benares district, on both sides of the Ganges, covers an area of 1,090 sq m., and the div. of the N.W. Frov., in which city said dist stands, extends to 10,445 sq in., p. 5,500,000.

Ben Arthur, mstr. in co. Argvil, Scotl, alt. 2,891 ft.

Ben Aktow, msn. in co. S Koss and Inverness, Scotl, alt. 3,381 ft.

alt 3,383 ft. mm. in co Aberdeen, Scott, alt. 3,843 ft. Benbecula (36 sq. m.), 131. 01 the Uniter Hebrides, Scott, included in co. Inverness, p. 1,4651 Benbecula Sound is the passage between the isl. and South

Bentoolen, or Benkoelen, Dutch residency in Sumatra; area, 9,426 m., p. 158,765. Produces pepper, rice, tobacco, etc.

Cruachan, men. co. Argyll, Scotl., nr. Oban,

alt. 3,689 ft.

alt. 3,690 ft.

Bender, fort. £. on Dniester R., Bossarabia, Russia, for m. W. of Odessa, p. 45,000.

Bender Abbasa! (called also Gombroon), £. and øt. of Kirnan prov., Perssa, on Strait of Ormus. Trade with Bombray, etc., p. 8,000.

Bendigo, mining dist. co. Vincent, New Zealand. 27g m. N. W. of Dunedin.

Bendigo (otherwise Sandhurst), £. of Bendigo co., victorm., austrans; centre of gold mining dist., which also produces wine and grain largely, p. 15. 452.

Station and products where are great sargety, p. 31450.

Bendichy, per, Perthshire, Scotl., nr. Coupar Angus, Ben Doran, or Doireann, min. co. Argyll, Scotl., alt. 3,93 ft.

Bendorf, i. on Rhine, Prussia, nr. Coblentz, p. 4,020.

Bendorf, p. 10,000.

Martnora, p. 10,000.

Bendore, p. 10,000.

Bendrin, c. nr. Cracow, in Russn. Poland, p. ro. 950.

Benevento, c. in Campania, S. Italy, p. 24,650; cap. of prov. of the same name, area 676, sq. m., p. 257,101;

Benevento, c. in Campenia, S., Italy, D. 24,050; Cap. of prov. of the same name, area for, 5q. m., p. 257,162; contains many Roman remains.

Benfield, d. in. Schlettstadt, Lower Alsace, p. 2,500.

Benfieldside, d. on Derwent R., co. Durham, Eng., p. 3,550.

Benfieldside, d. on Derwent R., co. Durham, Eng., p. 3,550.

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Bengal, Port, the newly-constituted province, comprises about 70,000 sq. m., including five Bengali, speaking divisions, the restoration of the 60d boundaries of partition being effected in 1912. The population (mostly Hindus) is about 42,000,000. Calculta is the chief city, p. 1,222,312.

Bengal, Bay of (or Gulf off, part of Indian Ocean, washing E. shores of India and W. shores of the Indo-Chineve Peninsult. Receives waters of R. Kyrthna, Ganges, Brahmaputra, Irawadi, etc.

Bengal, Proper, or Lower Bengal, the S. part of the Liceut.-covt. of Bengal, includes 26 Brit. dista, and two native States; its chief cities are Calcutta, Dacca, Murshidchad, Howrah, and Bardwan.

Bengari, or Ben-Ghazi, 59t. Barca, N. Africa, on Culf of Sidra; supposed site of anc. Berenice or Hesperides, p. 10,000.

Gulf of Sidra; supposed site of anc. Berenice or Hesperides, p. 10,000. [01 Giant's Causeway. Bengore Head, C. on N. coast of Ireland, Antrin, E. Benguella, const dist. W. Africa, Portuguese, S. O. Angols; p. 50,000. cap. Sto Flipe de Benguella, on Bay of same name, p. 2,500. [19,5200. Benha, r. m. Egypt, on railway, 29 m. N. of Cairo, Benhar, Rast, vid., co. Linhthgow, Scotl., p. 750. Benholm, maritime par. co. Kincardine, Scotl., on Loch Benl, or Veni, dep. in N.E. of Bolivia, S. America, area, 105.03 sq. iii., p. 20,000; cap. Trinidad, on large R. (900 m) same name (sometimes called Paro), which joins the Manore to form the Madeira, affit. of Amazon.

of Amazon. [in wine growing dist., p. 8,000 Benicarlo, 54, in Spain, nr. Castellon, on the Medit., Benicia, c. California, U.S.A., 40 m. N.E. of San

Benicia, 1. Calculation of Princisco, p. 3,000.

Beni-Hassan, vil. with catacombs, on Nile, Egypt, [D. 8,000. Beni, Isguen, t. in Algerian Sahara, trading centre, Benin, kingdom in Upper Gumea, W. Africa, traversed Benia, Kingdom in Upper Gunnea, W. Africa, fraversed by Benin R.; up to rky under savage rule, but now incorporated in Southern Nigeria, under British administration; p. estimated about 12,000 (5,000 of whom reside in or around Benin, the chief t.).

Benia, Bight of, N. portion of Gulf of Guinea, W. of the Niger Delta, W. Africa.
Benissa, t. n. Alicante in Spain, p. 4.835.
Beni-Suef, c. (cap. of prov.) in Egypt, on 1. bank of Nile, p. 18,500.
Ben Lawres, mtn., co. Perth, on 1.och Tay, Sootl; Ben Leddi, mtn., co. Perth, Sootl, N. W. of Callander, alt. 2,495 ft.
Ben Lomond, "mtn. co. Stirling, Scotl., E. side of L. Lomond, alt 3,192 ft.; also highest peak of New Eng, range, N.S.W., 5,000 ft., also mtn. in Tatmania, 5,00 ft.

mania, 5,010 ft.

Ben Macthui, min S.W. Aberdeensh... Calingorm grp.; second highest peak in Brit. Isls., 4,206 ft.

Ben More, mtn. S.W. Perthsb , Scotl., 10 in. W. of

Loch Earn, 3.843 it, also mins. in co. Sutherland, the Hebrides, and the 1sl. of Mull. Benmore (or Fair Head), C, on coast of Antrim, north-easternmost point of Irel, stands 636 ft. above

Sea. Nevis, mtn. co. Inverness, Scotl., at Lochiel, highest peak in Brit. Isles, observatory 4,406 ft.; also mtns. in Otago, New Zealand (9,125 ft.); In co. Cornwell, Tasinania (3,910 ft.); and range in Arizona, U.S.A.

Bennington, f. in S.E. Vermont, U.S.A., 34 m. N.E. of Albany; here British were repelled and deteated

of Albany; here british were repelled and deleared by Americans in 1777, p. 0.510.

Benown, s. native cap, of Ludamar country on the Niger, E. of Senegambia, W. of Central Africa; Mungo Park here imprisoned.

Ben Rhydding, health and bydropathic resort, nr. likley, W.R. Yorks, Eng.

Bensberg, s. nr. Cologue, Rhenish Prussis, p. 10,500.

Bentham, mkt. t. in N. of W.R Yorks, Eng., nr.

Settle, p. 6,337.

Benton Harbour, t. on L. Micligan, U.S.A., p. 6,800. There are about firty difft. places in U.S.A.

(mostly sm. t.'s) called Benton. Benue or Binue, R. W. Africa, chief trib. of Niger. Ben Venue, men. ur. Loch Katrine, Perth, Scotl., alt.

2,393 ft.

Ben Vorlich, min. W. of Loch Lomond, alt. 3,092 ft.; also mtn. S. of Loch Earn, Perth, Scotl, alt.

3,224 ft. Benwell, t. co. Northumberland, Eng. (sub. of New-

castlel, p. 26,121. [3,429 ft. Ben Wyvis, mtn. nr. Dingwall, co. Ross, Scotl., alt. Ben.y-Gloe, mtn. in Glen Tilt, Perthsh., Scotl. alt. [Indies 3.671 ft.

3.071t. Bequia or Bacoya, most N. isl. in Grenadines, W. Berar. (See Central Provinces and Berar.)
Berat, t. in S. Albania, European Turkey, p. 12,000.
Beraun, old indust. t. in Boheman Austrus, p.

C(Zeclis) 9,693. He was a fine from the first Cataract of the Nile, Nubia. Taken by Mahdists in 1884, p. (estimated) 20,000, connected by rail with Cairo and Khartoum, also with the Red Sea port of Suakim.

Suakim.

Berbera, cap, of Brit. Somali Prot., important port on G. of Aden, big, mkt. pl. for inland trade, in "the land of incense" of the ancts.

Berbice, E. div. Brit. Guiana; formerly a Dutch col., p. 30,000; Berbice t. (sometimes called New Amsterdam) is a port on the R. Berbice, nr. its entrance to the Atlantic.

Berceto, t. in Italy, 25 m. S.W. Parma, p. 7,000.
Berchem, t. in Belgium (sub. of Antwerp), p. 21,500.
Berck-sur-Mer, wat. pl. in France, on Eng. Chnl.,

Berck-sur-Mer, wat. 2. in France, on eng. chm., p. 7,500.

Bereltchev, or Berditsch.w., t in S.W. Russia, 50 m. W. Kiev, large trade in wine, honey, and cattle, p. 54,287.

Berdyansk, t. on S. of Azov, S. Russia, a centre of Beregazasz, Magyar t. nr. Tokay, Hungary, p. 10,000.

Berent, or Berhend, t. nr. Dantzig, Prussia, p. 4,500.

Berent, or Berhend, t. nr. Dantzig, Prussia, p. 4,500.

Bere Regis, mkt. t. in Dorset, Eng., p. 3,498.

Beresina (350 m.), R. W. Russia, trib. of Dnleper; French disaster on the retreat from Moscow, 1812.

Berezov, Russian t. on Sosva R., Siberia, in Tobolsk govt.; prison place of political offenders, p. 3,000.

Berezovsky Zavod, t. on Pyshna R. on the Ural slope, E. Russia, govt. of Perm; centre of gold-unning region, p. 10,000.

region, p. 10,000.

Berga, t. in Spain, prov. Barcelona, supposed Castrum
Bergun of Livy, p. 5,439.

Bergama, c. 42 in. N. E. Smyrna, Asia Minor, anc.

Pergamos; int. remains; p. 5,500

Bergamo, c. Italy, 34 in. N.E. Miln, fine cathedral

and academy, p. 45,785; cap. of Bergamo prov. on

Tyrol frontier; silk industry, area 1,027 sq. m.,

p. 460,000.

Bergedorf, mftg. t. in Schleswig-Holstein, ro m. E. of

Hamburg, p. 10,250.

Bergen, spt. and fortified c. on W. coast Norway, now Bergen, 59t. and iortified c. on W. coast Norway, now most important commercial pt. in hingdown, p. 70,867; also t. in Holland, prov. Brabant (Hergen-op-Zoom), p. 14,000; also another Netherlands t. nr. Limburg, on Meuse, p. 5,000; also t. on Rugen Isl, in the Baltic, S. Germany, p. 4,330; also several sm. t's in the interior of Germany; and stit. on C. P. Ry., prov. Manitola, nr. Winnipeg.

Bergerac, t. on Dordogne R., S. France, anct. Huguenot stronghold, p. 16,500.

Bergovatz, or Berkovatz, t. Bulgaria, 50 m S. Widin, p. 6,420.

Bergovatz, or Berkovatz, f. Bulgaria, so m S Wddin, p. 6,430.
Bergues, fort. f. Nord prov. France. s m. S.E. IntilBerhampur, or Berhampoor, milit. stm. Madras, India, leadquarters Ganjam dist., p. 25,000; also cap. Murshidabad dist., Bengal, p. 25,000.
Beril, f. Punjab. India, Köhtak dist., p. 10,000.
Beril, anct. f. Nimar dist., Cent. Prov., India, [p. 12,081.
Berislav, f. in S. Rasia, govt. Kherson; flour mills, Berja, f. in Spain, prov. Almeria, wine and fruit dist.. D 13,500.

p 13,500.

Berkeley, t. on Avon R., Gloucester, Eng., p. 6,554;

also university c. Alameda co., California. nr. San

Francisco, U.S.A., suffered in earthquake disaster of 100%, p. 40,434; also t. (and county) in Virginia, U.S.A.
Berkhampstead, mkt. t. Herts., 30 m. N.W. London, Eng., chenical factory, p. 7,302.
Berkshire, area 222 sq. m., p. 303,428, agr. co. S. of the Thames, Eng., co. t. Reading.
Berlad, of Berlat, ch. t. of Tutova dist., Roumania, horse fair and soap factories; p. 23,000 (one-fourth lews).

horse fatr and soap factories; p. 23,000 (one-lourin Jews).

Berlaner, vil., prov. of Antwerp, Belgium, p. 3,850.

Berlanga, t. in Snain, se m. S.E. of Badaloz, p. 5,200; also t. 22 m. S.W. of Soria, p. 2,250.

Berleurg, t. in Westhalia, Germany, nr. Arnsberg, Berling, c. cap. of Prussia, and of German Empire, on R. Spree; third c. on continent of Europe for population, which, with suburbs, now reaches over 24 mills; also t. Wisconsin, U.S.A., p. 5,000; also t. Ont., Canada, p. 1,500; also t. m. Connecticut, U.S.A., p. 2,850; also gold-digging dist. of Victoria, co. Gladstone, 130 m. N. W. Melbourne; also lumber t. in forest region New Hampshire, U.S.A., p. 12,230.

Berlinchen, t. Prussia, on the Oder, p. 6,400. [b. 8,500.

Bermudes, S.E. dist. of London, Eng., cherly occupied by tanneries, wharves, and warehouses, p. (parly, bor.) 125,500.

Bermudes, Brit. group coralline fels. [350 in number) N. Atlantic, about 600 E. of S. Carolina, U.S.A. total area so sq. m.; Hamilton, on Long Island, is the clif. t.; arrowroot, cedar, coffee, cotton; p. (of the entire group) 18,944. of whom two-thirds are blacks or coloured people.

Bermudes, a former state of Venezuela, now divided into Barcelona and Sucre.

Bermudez, a former state of Venezuela, now divided into Barcelona and Sucre.

Bern, or Berne, cap. of canton of sune name in Switzd., on R. Aar; sent of Swiss Gort, since 1848; university, p. 85,204. The canton of Bern covers 2,657 sq. m. [2,172 productive, the rest occupied by lakes and

glaciers), 587,683. Alps in this canton called the glaciers, p. 587,683. Alps in this canton called the Bernalda, A. in prov. of Potenza, Italy, S.W. of Bernard, Great St., one of the Alps in the S. of the Valais, Switzerland, highest pt. 12,116 ft., height of mtn. pars between Italy and Switz., 8, to8 ft. Famous

hospice for travellers in monastery on mith.

Bernard, Little St., one of the Graian Alps in Savoy, S.
of Mt. Blanc; alt of convent above pass leading from France to Italy (traversed by Hannibal's army,

218 B.C.), 7,076 ft Bernau, t. in Prussia, 13 m. N.E. of Berlin, p. 7,350 Bernay, t. Eure dep., France, nr. Rouen, impt. horse Bernay, t. Eure dep., France, 11t. Rouen, limpt. horse fair, p. 8,150.

Bernburg, 11tlg. t. in Duchy of Anlult, N. Germany, Bernera, Great and Little, and Berneray, three sult. 12tl. of Outer Hebrides, co. Inverness, Scotl. Berni, t. in Etah dist., N. W. Provs. India, p. 3,850.

Bernina, mtn. (alt. 13,205 ft.) and pass in Khaetian Alps. height of pass (leading from Samaden in the Engadune to Tirano, Italy), 7,658 ft.

Bernstadt, t. in Silesa, Pussia, nr. Breslau, p. 4,500.

Bertl, old prov. France, now comprises deps. Chevard India.

and Indre.

Berriam, t. nr. Gardaia, in Algerian Sahara, p. 3,570.

Berrima, t. in N.S W., 80 m. S. W. Sydney, p. (of dist.)
7,580.

[Bologna, famous for wines, p. 7,50.

Berrinoro, t. in prov. Forth, Italy, 40 m. S.E. of

Bervic, or Inverbervie, 59t. Kuncardneshire, Scotl.,
one of the Montrose Burghs, p. 2,30t.

Berwick, t. and agricul, dist. in Victoria, 27 m. S.E.

Melbourne, p. 4,200; also several pars. in Scotl. and Berwick-on-Tweed, 59%. Northumberland, Eng., p. (including Tweedmouth and Spittal) 13,259. Berwickshire, maritime co. S.E. of Scotl., 465 sq. in.,

Betwickshire, maritime 10. S.L. A. Scott., 404 sq. m., p. 9,642, co. t. Greenlaw.

Berwyn Mtns., range mid-Wales, alt. of highest peak, Besancon, watch and clock-making 1., dep. Doubs, France, p. 55,260.

Beshetsk, t. in Govt. of Tver, Russia, p. 5,180.

Beshetsk, t. in Stuttgart, Wurtemberg, p. 3,215.

Beshat Bay, W. coast Asia Minor, nr. isi. of Tenedos, and entrance to Dardanelles.

Besni, t. Asia Minor, 30 m. W.N.W. of Somelsat, p.

Bessarabia, gov. S.W. Russia, area 17,619 sq. m., p. 2,000,000; taken finally by Russia from Turkey in 1812. Very productive agricul. co. lying between Austria and Roumania and the Black Sea and Russia

proper.

Sessbrook, f. on Newry Canal, Armagh, Ireland, p. Bessbrook, f. Gard dep., France, collery dist., p. no.co.

Bessemer, iron-smelting f. in Jefferson co., Alabama, U.S.A., p. 6.38; also sml. t.'s in Colorado and Michigan, U.S.A.

Michigan, John of Darmstadt, Germany, p. 9,580. Bessingen, suburb of Darmstadt, Germany, p. 9,580. Bessinki, mountainous prov. and t. in the E. end of Java. Betanzos, t. Spain, ro m. S.E. Corunna, p. 8,500. Betawad, t. Khandesh dist., Bombay Pres., India,

Detawas, ...
p. 5,254.
Bet-Bet, t. Victoria, mining and farming dist., ro3 m.
N. W. Melbourne, p. 5,024.
N. W. Melbourne, p. 6,064.
[Calais, p. 4,530.

N.W. Melbourne, p. 5,024.

Bethane, fortd. I. in France, on R. Brete, dep. Pas-deBethanga, mining L., Victoria, 204 m. N. Melbourne, p. 6,430.

[Inow called El-Azariyeh. Bethany, 211, on Mt. of Olives, 2 m. from Jerusalem, Bethany, miss. stn., S.W. Africa, on the Goab R. in Gt. Namaqualand.

Gt. Namaqualand.

Bethel, t. (tuined), zo m. N. Jerusalem: the modern Beitin; also sm. t.'s in Maine, South Carolna, Connecticut, Albama, and New York, U.S.A. Betheladorp, miss. stn. nr. P. Elizabeth, C. Colony. Bethesda, t., Carnarvonsh, Wales, nr. Penrhyn slate quarries, p. 4.716; also township in York co., S. Carolina, U.S.A., p. 3.759.

Beth-Horon, vil. nr. Jerusalem, Palestine; here Joshua defeated the Amontes.

Bethilehem, t. & n. S.W. Jerusalem, Palestine; birthplace of Christ, modern Beti-Lahm, p. 8,000.

Bethlehem, t. U.S.A., 35 m. N. Philadelphia; ironworks, p. 7.293.

works, p. 7,293.
Bethnal Green, bor. of L. London, Eng., p. 128,282.
Bethnlage, vs., on Mt. of Olives, above Bethnay,

Bethpiage, vil. on Mt. of Olives, above Bethany, Palestine, Bethasida, anc. vil. on W side of S. of Galilee, Bethulle, t. in Orange River Col. S. Africa, p. 4.850. Bethulle, t. in Orange River Col. S. Africa, p. 4.850. Bethungra, t. in co. Clarendon, N.S.W., p. (of dist.) L. 1200.

4.20.

Betigeri, t. Dharwar dist., Bombay Pres., India, Betisamitea, R. in Quebec, trib. of the St. Lawrence. Bettia, t. in Chambaran dist., Bengal, India; fine Rajah's palace, p. 24,000.

Bettway-Cood, tour, and artists' resort, Carnarvonsh., Bettul, t. (p. 5100) and dist., Narbuda diw., Cent. Prov., India; area of dist. 3,824 m., p. 285,324; suffered severely by famine.

Betwa (50 m.), R. of Bhophal, N.W.P., India, trib. of Beutlesbach. t. nr. Stuttgart, Bavaria, p. 1,570.

Beutlesbach. t. nr. Stuttgart, Bavaria, p. 1,570.

Beutlen, or Oberbeuthen, mining t., Silesia, Prus., nr. Bresiau, p. 3,100.

Beuzeval-Houlgate, watering place of France, on Beuzeval-Houlgate, watering place of France, on Beuzevalle, t., Eure dep., France, nr. Pont-Audemer, p. 2,000.

р. 3,000.

Bevagua, L., Italy, 18 m. S.E. Perugia, p. 6,000.
Bevedero, large L. in Prov. Mendoza, Argentina.
Beveland, N. (length 13 m.) and S. (23 m.) two 15 c.
estuary of Scheldt R. nr. Walcheren, Holland.

estuary of Scheidt R. nr. Walcheren, Holland.
Bevensen, d. in Hanover, nr. Lunburg, p. 1897.
Beveren, d. in Hanover, nr. Lunburg, p. 1897.
Beveren, d. in prov. E. Flanders, nr. Chent. Belgium, p. 1909.
Beverland, or Bijerland, 127. in S. Hollands Diep, Beverland, or Bijerland, 127. in S. Hollands, between minster; p. 13654; also t. on R. Avon, W. Australia.
Beverley, fl. Essex Co., Mass., U.S.A., p. 13,884; also vil. on Delaware R., New Jersey, U.S.A., p. 3,500.
Bevern, 127. in Brunswick, Germany, p. 2,250.
Beverungen, mftg. c. on R. Weser, Westphalia, Germany, p. 2,866.
Beverunge, f. nr. Haarlem, North Holland, p. 3,854.
Bewcastle, 227. in co. Cumberld., Eug., nr. Brampton, p. 1,540.

p. 1,640.

Bewdiey, £ on R. Severn, co. Worcester, Eng., p. 4,900.

Bex, £ on R. Rhône, in canton Vaud, Switzerld., p. 4,900.

Bexhill, watering place, Sussex, Eng., 5 m. W. of Bexley, £ W. Kent, 15 m. S.E. London, Eng., p. 15,895.

Beyod Mt., Tigre, Abyssinia, alt. 16,000 ft. [Eng. Beymhurst, a hundred of Berks co. (on Thames side), Beypur, spt. on Malabar coast of Madras, India,

Beypur, spt. on Mandar town on manager p. 7,000.

Beyrout or Bairut, spt. on Syrian coast, 57 m. W. N.W. Damascus, anc. and historic t., now a busy shipping and mercantile centre, p. 140,800.

Bezdan, f. Hungary, on R. Danube, p. 81,40; also t. in Austria, on R. Woiwollian, p. 9,204.

Bézieres, or Béziers, f. dep. Hérault, France, on Crb, brandy distilleries, p. 23,30.

Bezwada, f. and trigation headquarters on Kistna R. Madras, India, p. 4000.

Bhabua, f. in Shahabad dist., Bengal, India, p. 5,830.

Bhadarwa, petty state in Bombay Pres., India, p. 10,030.

p. 50.000.

Bhagalpur, dist. and div. of Behar, prov. Bengal, India; also t. cap. of dist. on S. bank of Ganges; area of div. 20,571 sq. m., of dist. 4,226 sq. m.; p. (of cap.) 75,000; (of dist), 1,200,000; (of div.), nearly

cap.) 75,000; (of dist.), 2,000,000; (of div.), nearly 9,000,000.

Bhagirathi, R. of Bengal, branch ("sacred" channel of Ganges; joins Jalangi R. 10 form the Hooghil.

Bhamo, I. Upper Burua, on R. Irawadi; anc. cap. of Shan State of Mannaw. In rich teak forest dist. Steamer com. with Mandalay (200 m.), p. 8,500.

Bhandura, or Bhandara, atst. Nappur, div. Cent. Prov. India; area, 3,068 m., p. 663,578. cap. Bhandura, on Wainganga R., p. 14,000.

Bhantpura, I. on Rewa R., Indore State, India, Bhartpur, or Bharatpur (sometimes also written Bhurtpore), a native State in India, Rajputana Agency, area 1,051 so, m., p. 663,720, cap. Bhartpur city, 34 m. W. of Agra, p. 50,000.

Bhanagar, nat. 'state, India, Bombay Pres. (Kathawar, Gujarat div.), area 2,860 sq. m. p. 400,000. This State suffered terribly in the iamine of 1809-90; cap., Bhuanagar, on the Gulf of Cambay, p. 60,000.

Bhera, A. Shahpur dist., Punjab. on R. Jhelum, Bhilgarh, em Gwalior Ter., Cent. India, p. 6,300.

Bhilwara, collective name of 17 nat. States, Central India; also of t. in Udapur State, Rajputana.

Bhilm Gora, sacred pool, place of Hindu pilgrimage, Saharanpur dist., Cent. Prov., India.

Saharanpur dist., Cent. Prov., India. Bhiwani, cotton mfig. and trading t., Hissar dist., Punjab, India. p. 38,560. Bhoppur, t. and agr. centre. Shahabad dist., Bengal Pres., India. p. 10,000. Bhopal, nat. state. Cent. India. Bengal Pres., and agr. cent. Shahabad dist., Bengal Pres., and agr. cent. Shahabad dist., Bengal Pres., area 6,874 sq. m., p. nearly, 1,000,000, cap. Bhopal, area 6,874 sq. m., p. nearly, 1,000,000, cap. Bhopal,

p. 78,500.

Bhor, nat. state, Deccan div., Bombay, India, area 1,491 sq. m., p. 137,269; cap. Bhor, 25 m. S. of

1,491 sq. a., p. 5,500.
Bhuj, ch. & of Cutch, Gujarat div. of Bombay,
Bhutan, independent state in Eavtern Himalayas;
under Brit. protection since 1864, area (abt.) 16,000 under Brit. protection since 1864, area (abt.) 16,000 sq m., p. comparatively scanty, scattered and nounadic (abt.) 250,000.
Bhuvaneswar, temple c. of Siva, Purl dist., Bengal, India, place of pilgrimage.
Blafra, sm. co. of Upper Guinea, W. Africa, bordering on Cameroons R. and Bight of Blafra.
Blala, ch. t. of govt. dist. in Galicia, Austria, textile industry, p. (mainly Germans) 8,400.
Blalystok, t. Russian Poland, nr. Grodno, leather and soon factories n. c. 480.

soap factories, p. 42,480.

Biana, t. Bhartpur State, Rajputana, India, so m. S.W. of Agra, p. 9,100.

Biancavilla, t. in Sicily, N.W. Catania, famous for

oranges, p. 14,000.
Blans, pass of the Himalayas, Kumaon dist., India, alt. 18,000 ft.

alt. 18,000 ft.
Blanze, f. in prov. of Novaro, Italy, nr. Turin, p. 4,200.
Blanze, f. in prov. of Novaro, Italy, nr. Turin, p. 4,200.
Blanze, f. in Bay of Biscay, France, p. 12,812.
Bibbliane, f. in Emilia, Italy, nr. Reggio, p. 6,000.
Bibblena, f. in Italy, nr. Cecina, p. 4,840.
Bibbran, f. in Italy, nr. Cecina, p. 4,840.
Bibbran, f. fort. f. on Reiss R., Wurtemberg, p. 8,400;
also f. on R. Kinzig, Baden, nr. Offenburg, p. 1,400.
Bic, 11, 11, 11, and harbeur, en St. Lawrence R.,
Quebec.

Bicester, mkt. f. Eng., 12 m. N.E. Oxford, p. 3,385.
Bicestre, sub. wif. nr. Paris, p. 3,540.
Bide. cap. of Nupe country, Northern Nugeria, W. Africa, p. (of dist.) 80,000. [metal: p. 12,000.
Budar, f. in Haidarabad dist., S. India, mnfts. BudarBidassoa, R. on Sp. and Fr. frontier, ft. (5 m.) into B. of Biscay. Here Wellington in 1813 deleated French

under Soult.

Biddeford, c. 90 m. N. Boston, U.S.A., cotton units., Biddenden, par. nr. Cranbrook, co. Kent. Eng., p. 1,740. Bidduph, t. nr. Leek, co. Stafford, Eng., colliery and Biddord, t. nr. Barnstaple, on R. Torridge, N. Devon,

Bideioru, f. m. Bambappe, o. a. Eng. p. 9,074.
Bidlise, f. in Turkey, dist. Erzeroum, p. 15,000.
Bidlise, f. in Turkey, dist. Erzeroum, p. 15,000.
Biehich, mig. f. and port on Khme, nr. Wiesbaden, Prussia, p. 15,500.
Biel or Bienne, mig. f. in canton Berne, Switz., tech-Bielau, f. nr. Keichenbach, Silesia, Prus., p. 13,500.
Bielaya-Tserkov, f. in Russia, nr. Kiev, extensive

commerce, p. 20,000. Bielefeld, t. in Westphalia, Prus., ch. centre of linea

industry, p. 63,000.

Bielev, anc. t. on Oka R., nr. Moscow, Russ., p. 10,000.

Bielgorod, 4 govt. of Kursk, Russ., on R. Donets,

p. 22,500. Bielina, L. of Svornik dist., Bosnia, p. 16,500. Bielina, t. in Austr., Silesia, p. 17,500. Bielia, textile c. 40 m. N.E. Turm, Italy, p. 20,000. Bielopol, beauty distilling t. 100 m. N.W. Klarkov.

Bielopo, psanto distining z 100 in, N.W. Klarkov. Russia, p. 15,000.
Bielsky, t. Grodno govt., W. Russia, nr. Bialystok, p Bielsky, t. in Bessarabia, Russia, nr. Kritenev, p. 10,500.
Bien-Hoa, or Tale-Sab, L. between Siam and Cambien-Hoa, t. in French Cochin China, 20 in. N. of

Bien-Hoa, I. in French Count China, Saigon, p. 20, 200.

Bienne, L. of, 3 m. N.E. Neuchâtel, Switz., on which is t. of Bienne, or Biel (q.v.), length of m., breadth 2 m.

Bierley, N., township, W.R. Yorks, populous sub. Bies-Bosch, marshy L. (area 8 sq. m.) between N.

Brabant and S. Holland, formed by mundation of

Bigs. (or Bigha), z. in Asia Minor, nr. Adramyti,

Big Bethel, vil. in E. Virginia, 10 m. N.W. of Fortress Monroe, U.S.A.; Confederate victory here in 1801.

Big Black R. (200 m., navigable 50 m.), trab. of Mississippi R., U.S.A.; noted in Grant's campaign

sissippi R., U.S.A.; index in the before Vicksburg, 1863.
Big Blue R. (300 m.), trib, of Kansas R., U.S.A.
Big Blue R. (300 m.), trib, of Kansas R., U.S.A.
U.S.A., fossil deposits.

Big Creek, name of eighteen sml, rivers in various pts. of U.S.A., also of eight dif. towns on banks of

Same.

Big Cypress R., Texas, U.S.A., falls into Caddo Biggat, A. in co. Lanark, Scotl., p. 1,326.

Biggat, J. in co. Lanark, Scotl., p. 1,326.

Biggay isl., one of smaller Shetlands, between Yell and the mainland.

Biggleswade, A. co. Bods., Eng., 40 m. N.W. London, Big Horn Mts., in Wyoming and Montana, U.S.A., range of the Rockies, highest points alt. 12,000 ft.

Big Horn R. (450 m.), trib. of Yellowstone R., Wyoming and S. Montana, U.S.A., called Wind R. in upper reaches.

in upper reaches.

m upper reaches.

Bight of Benin, N. part of G. of Guinea, W. Africa.

Bight of Blafra, E. part of G. of Guinea, W. Africa.

Big Rapida, t. est. of Mecosta co., Michigan, U.S.A.

Big Sandy Creek (200 m.) R., Jouns the Arkansas R.

m. the Kansas frontier, U.S.A. There are thatean

Big Sandy Creeks or Rivers in dif, pts. of the U.S.

Big Sioux R., Dakota, U.S.A. (300 m.), trab. Missouri

R. (sota, U.S.A. Big )Stone Lake (25 m. long). Dakota and Minne-Bihaca, or Bihatch, fort, t, in Bosnia, on R. Una,

p. 4.530. Bihar, t. nr. Grosswardein, Hungary, p. 2750. Bihar, prov. Brit. Ind. (See Behar.) Bihat, petty state, Bundelkhand dist., Cent. India, area 15 80, m., p. 4.704. Blue, t. E. of Benguela, W. Africa, 5,800 ft. above sea.

Bijapur, dov. in Carnatic dist. of Bombay Pres., Indis. formerly called Kaladgr; area 5,668 sq. m., p. 735,000, cap. Bijapur, a very and city, with many picturesque ruius, p. 17,200. Bijawar, nat. state, Cent. India, Bundelkhand agency,

area, 974 sq. m., p. 131,500. Bijnaur, or Bijnor, dest N.W. Robilkhand div., India, area 1,898 sq. m., p. 779,361; also t., cap. of dist.,

Bikanir, or Bikaner, nat. state, Rajputana, India. urea 2,309 sq. m. p. 384,711, decreased 30 par c. by famine: also t., cap. State, p. 55,000. Bilari, A. dist. of Moradabad, N.W. Prov., India, p. Bilaspur, Att. in Chattisgarh div., Cent. Prov., India, p. 1,000,000, area 8,24 sq. m., cap., t. on R. Arps.

p. 1,1000.
Bilbao, 19t. N. Spain, cap. Basque, prov. of Viscaya, formerly famous for rapler making, p. 85,000.
Bildeston, per. Suffolk, Eng., nr. Hadleigh, p. 1,005.
Bildt, r. in prov. Fnesland, nr. Leeuwardein, Nether-Isulk industry, p. 10,500. Buct, £ in prov. Fraesland, nr. Leeuwardein, Netherlands, p. 6,220.
Biledjik, ch. £ in Bruzz vilayet, Asia Minor, unpt.
Bilga, £ in Jalandhardust. Punjab, India, p. 7,000.
Bilgaram, £ its Oudh, Iudia, nr. Lublin, p. 7,234.
Bilgram, £ in Oudh, Iudia, nr. Hardol, p. 12,000.
Bilbaur, £ in Cawnpur, India, p. 5,647.
Biln, £ Bohema, on Bela R., famous for its immeral waters, p. 8,104.

waters, p. 8,104.
Billabong, or Iliabo, goldfield dist., co. Ashburnham, N.S.W.

Billericay, L. co. Essex, Eng., p. 2,000, Billesdon, par. ir. Leicester, Eng., p. 6,013, Billinge, par. of Wigan, co. Lancaster, Eng., p. 4,004, Billingham, L. co. Durham, Eng., ir. Stock on on

Billingham, t. co. Durham, Eng., in: Stock on on Tees, p. 3,500.
Billinghay, par. nr. Sleaford, co. Lincoln, Eng., p. Billinghay, par. nr. Sleaford, co. Lincoln, Eng., p. Billing to, t. Dutch E. Indes, W. of Bornea, area 1.847 sq. nn., p. 41,528. [co. Lancaster, Eng., p. 3,402. Billington, cotton weavg, township, nr. Blackburn, Billom, t. in dep Puy-de-Dome, France, nr. Clermont, p. 500.
Billom, t. in dep Puy-de-Dome, France, nr. Clermont, p. 500.
Billiams R. (250 nn.) in Arizona. U.S.A., fift. of Bilma, or Hawan, t. and dist. Wady Kwar, Sahara. Blloxt, c. Harrison co., Mivissupt, U.S.A., fisshorable resort on coast, p. 6,100
Bilsen, t. in Belgrum, nr. Hasselt, on R. Demer, p.

able resort on coast, p. 6,100
Bilsen, c. in Belgrum, nr. Hasselt, on R. Demer, p.
Bilston, c. Staffordsh., Eng., coal and iron nimes, nr.
Wolverhampton, p. 25,651.
Bilton, par. nr. Rugby, co. Warwick, Eng., p. 780.
Bilton, par. nr. Rugby, co. Warwick, Eng., p. 780.
Bilton, par. nr. Rugby, co. Warwick, Eng., p. 780.
Bilma, par. N. coast Sumbawa, Dutch B. Indies.
Bindipatam, c. in dist. Vizagepatam, India, formerly

a Dutch factory, p. (abt.) 10,000. [p. 10,000. Binab, c. in Azerbaijan, Persia, 55 m. S.W. Tabriz, Binabola, or Bennebeola, mins, co. Galway, Ireland, alt. 2,400 ft.; called also "Twelve Pins,"

alt. 2,400 ft.; called also "Twelve Fins," Binacre, acr nr. Southwold, co. Suffolk, Eng. p. 750. Binalong, A. N.S. W., co. Harden, 308 m. S. W. Sydney, p. (of dust.) 4,500. [growing dists, p. 20,000, Binang, A. in Luzon Philippine Isls, fertile receibingthe, A in Hamauli prov., 10 m. E. of Mons, Belgium; lace and other factories, p. 22,300. Bin-danh, A. in Anam, nr. the coast.

Bingen, t. in Alnine R., Hesse Darmstadt, Germany; wine, beautiful scenery, p. 20,000. [dist.] 8,000, Bingera, t. on Gwdir R., N.S.W. goldfields, p. (of Binham, par. nr. New Walsinghan, co. Norfolk, Rag.

Binghampton, c. cap. of Basonie co., New York, U.S.A., on Susquehama R., hoot factories, p. 48,445. Bingley, mig. c. W. R. Yorks, 5 m. N.W. Biadford, on R. Airc, p. 18,759. Bingol-Dagh, mittis., Asia Minor, between Armenia and Kurtlestan; air. of highest peak, 10,330 ft. Binondo, subsuph of Manila, Philippine 1sls, p. 160,000. Bintang, 18.4. Malay Archp. on Equator, Dutch E, Indies; noted for pepper and gum, p. 18,000. Binue, R. (See Benne).
Biobio, R., longest in Chili (300 m.), flows to Pacific. Biobio Arvo. us valley of R., area 4,142 sq. m., p. (abt.) 100,000, cap. Los Angeles.
Biorneberg, 18.4. Finland, on Gulf of Bothinta, p. 8,000. Bir, or Birelik, walled A. of Asiatic Turkey, on Huphrates R., the arca Bitha or Bishra, p. 8,900. Many Armucham massacred here in 1895.

Many Armemans massacred here in 1895.

Birbhum, dist., Burdwan div., Bengal, India, area 1/52 sq. m.; silk-weaving industry, p. 905,000; ad-ministrative hears. Suri. [15,000 ft.

1752 93. m.; silk-weaving undustry, p. 905,000; administrative hidges. Suri.

Birchingson Pass, Himalaya Mers., Kumaon dist., alt.

Birchington, f. Kent, Eng., 3m. W. Margate, p. 850.

Bird, td. in Lough Strangford, co. Bown; siso isl. off
Jumanus Bay, co. Cork, Irel.

Birdhorough, f. Penn., on Schaylkill R., U.S.A.,

Birgharn, or Brigham, val. co. Berwick, nr. ColdBirejik. (See Bir.)

Stra, dist. in Nizan's dominion, Brit. India, area, 4,460.

Surgais. (See Bir.)

Birk, &c.; in Nizan's dominion, Brit. India, area 4,460
sq. m., p. 650.000. [Ganges and Gogra, p. 9,500
Birla, e. in India, Ballia diet., N.W. Prov., between
Birloutch, e. in govt. Veronesh, Russla, p. 4,200.

Birhandis, coast e. in: Southport, Laucs, Eng., p. 76,005.

Birhandis, coast e. in: Southport, Laucs, Eng., p. 76,005.

Birhandised, e. on R. Mersey, opp. Liverpool, Eng.,

Birhandised, et. on R. Mersey, opp. Liverpool, Eng.,

Birket-el-Hadji, "Lake of Pilgrims," to m. N.E.

Birhandised, et. on R. Mersey, opp. Liverpool, Eng.,

Birket-el-Karun, "Lake of the Herns," in Fayun,

Egypt, fed by Nile.

Birmingham, industri. cap. of the English Midlands,

famous for its metal manuf., 120 m. N.W. London,

so m. S.E. Liverpool, p. 52,560; also cap. Jefferson

co., fron mifs., Alabama, U.S.A., p. 132,885; also t.

Conn., U.S.A. on H.

R., p. 5000; also

Bornagar, A. and Place of pilgrimage, Nednya dist. Conn. U.S.A., on H
suburb of Bittsburg, Pei ania, U.S.A. S. of
Monongahela R.
Birnagar, 4, and place of pilgrimage, Nadiya dist,
Birnam Wood, nr. Dunkeld, Forth, Scott, formerly a

royal forest, on a lofty hill range: referred to by Shakespeare in diacheik. [Posen, p. 2000.] Posen, p. 5,000.

Shakespeare in Mathetis. (1º08en, p. 5,000, Birnbaum, tobacco mitg. t on R. Warta, Prussia, nr. Birnbaumer Wald, plateau in Carniola, N.E. of Trieste; the Roman station Ad Pirum on main rd.

Trieste; the Roman station Ad Frami on main ra, across Alps to Italy.

Birná, the former cep. of Bornu, in the Soudan.

Birn, or Parsonstown, mkt. t. King's co., Ireland, on

Lit. Brosna, p. 5,00a. Lord Rosse's telescope in

ebservatory nr. here.

[P. 9,550.

Birná, trading t. on Behix R., gowt. of Ufa, S.E. Rrissia,

Birnála, t. W.R. Yorks, Eng., 74 m. S.W. Leeds, p.

Birskal, t. W.B. 2000. Mantoba. Canada, p. 1,480.

Birtle-cam-Bassford, milg. sub. township of Bury,
co. Lancaster, Eng., p. 4,760. [Gateshead, p. 4,504

Birtle-g, township in co. Durham, Eng., 5 m. S E. of

Bisaccia, t. in prov. Avellino, Italy, n. 7,553.

Bisacquino, t., sc m. S. Palermo, Sicily, p. 10,000.

[palace, p. 5,400.

Bisauli, t. in Budaon dist., N.W. Prov., India, Rajah's

Blacket, it is set of Matte, p. 4,000.

Blacket, Bins, of Matte, p. 4,000.

Blacket, Blacket, or Viscaya, Spanish prov. on B. of Biscay, one of the Basque provs., area 849 sq. m., p. 500,400; mineral industries, shipping, etc., cap. Bellac.

Bilino, Bay of, stormy arm of the Atlantic, W. of France and N. of Spam, extending from Ushant to Cape Ortegal. The Roman Sim Aquitanicus. Biscoglie, 394. Ital., on Adrictic, fortified, p. 30.885. Bischheim, F. Alsace, Ger., close to Strasbourg, p. 6,000. Bischofsburg, f. mr. Köngsburg, E. Prussa, p. 5,200. Bischofsburg, f. mr. Köngsburg, f. mr. of Drecken, on the K. Wesenitz; battle between the Affices and Napoleon on his retreat from Moscow in 1873; p. 7,005.

7,005.
Bischweiler, A. in Lower Alsace, hop-growing dist.,
Bischweiler, A. in Lower Alsace, hop-growing dist.,
Bischanpur Narban Khas, A. in Barbangha dist.,
Bischweiler, A. in Lower Alsace, hop-growing dist.,
Bischweiler, A. in Barbangha dist.,
Bischweiler, B. in Lower Alsace, hop-growing dist.,
Bischweiler, B. in Lower Bischweiler, hop-growing dist.,
Bischweiler, B. in Lower Bisc

Bengal, India, p. 5,000.

Bishospur, anc. cep. of Bankura dist. Bengal, p.

Bishop Auckland, c. on Wear and Gauniess R., in co.

Darham, Eng.; contains pal, of Bp. of Darham, p.

13.639.
Bishop's Castle, mkt. t. Shropshire, Eng., p. s.348.
Bishop's Middleham, t. ar. Durham, Eng., p. 4.20.
Bishop Stortford, mkt. t. on Stort R., Herts, Eng.,

p. 8,723. Bishop's Waltham, mkt. t. Hants, Eng., p. 4,570.

Bishopthorpe, par. on the Ouse, nr. York, Eng., with palace of the Archbishop, p. 2,001.
Bishop Wearmouth, mitg. 1. in parly, berough of Sunderland, Eng.

Sundersum, Day.

Singramo, J. Hally, prov. Corenza, p. 4,50c.

Bistera, A. Algeria, French winter resort, p. 8,70c.

Bistery, mkt. f. Gloucester co., nr. Strond, Bag., p. 5,50c; also vol. rife ra., Surrey, 3 m. W. Woking, in succession to Wimbledon.

Rismamic coft of Ruleigh co. N. Dakots, U.S. A.

Bismarck, cap. of Burleigh co., N. Dakota, U.S.A., on the Missouri R., p. 4,000; also t. in Pressian

Saxony, nr. Mugdeburg, p. 2,240.

Bismarck Arch, three large and several small isls. off German New Guinea, formerly known as New Britain (p. 9,244. Bisphara, t. nr. Ormskirk, co. Lancaster, Eng., Bissagos, group tets. off W. Africa; partly claimed by Portugal; prin. t. Bolama.

Bissao, Fortuguese ist. settlement at mth. of Rio Geba, Senegambia. Bissaus, t. m jalpur, Rajputana, India, p. 6,850. Bisstitz, or Nosen, t. Transylvania, Austria-Hungary, on Bistritz R.; formerly an import, place, p. 10,850.

on Bestitz A.; ionitesty at impost, place, p. account blswas, t. Oudh, dis. Stappt, India, p. 8,000.
Bitette, t. Italy, 10 m. S. from Bart, p. 6,000.
Bithur, t. on Ganges, 12 m. from Cawnpur, p. 6,800.
Bitlis, or Betlis, t. Asiatic Turkey, S.W. L. Van; mineral dist.; inassacre of Armemans, 1895, p.

38,000. Bitonto, t. Italy, 17 m W. S.W. of Bari, the Roman Bituntum; fine cathedral, p. (commune) 30,000. Bitach, or Bitche, formerly Kaltenhausum, t. fort., Alsace-Lorrane, 35 m. N. Strasbourg, formerly

AISEC-LOTTAINE, 35 In French, p. 3600.

Bitterfield, mitg. A. on R. Mulde, Saxony, built reth. cent. by Dutch immigrants, p. 13,000. [Canal. Bitter Lakes, 1sth. of Suez, now traversed by S. Briton, L. W. Gloucestersh., Eng., nr. Bristol, muning,

Britons, I. W. Gloucestersh., Eng., nr. Bristol, multing, p. 7,253.

Biwa, L. (area 180 sq. m.), prov. Kieto, Japan, 330 ft. above sca-level and spot. feesp., connected by canal Biyerre, R. affit. of R. Congo, Africa. [with Osaka. Bizerta, or Bizerta, orhoo, Bizovak, I. wr. Hizek, Huns, N. Afarca, the anc. Hippo Zarius, p. ro, 1000.

Bizovak, I. wr. Hizek, Huns, N. Afarca, the anc. Bizovak, I. wr. Hizek, 1000.

[Whiteadder R. Gom, D. Berwickshi, Scotl., affit. of Blackadier, R. (20 m.), Berwickshi, Scotl., affit. of Blackadif, I. m. Queensland, on Barcoo R. p. 1,200.

Black Bluff, 1000 in N. Tasmania, 140 m. N. of Blackboy, goldfield dest., Tasmania, 120 m. N. of Hohart.

Hobert

Hackburn, co., bor. Lancash., Eng., cotton mfg., Blackburn, co., Renfrew, Scott., affi. of Clyde. Black Cart, K., co. Renfrew, Scott., affi. of Clyde. Black Country, S. Stafferdsh., Eng., it. r., r., spott. Black Country, S. Stafferdsh., Eng., in midlands, rolling and run works. Blackfeet Crossing, between Row and Door R.'s,

Canada.

Canada.

Blackford, par. Perthsh., Scotl., nr. Dunblane, p. 1, 374.

Black Perest, mins. rection in Wartenberg and Baden, S.W. Germany, area 1, 334 sq. m.; highest peak Feldberg, alt. 4,900 ft., p. 450,000; cap. Reutlingen.

Black Gang Chine, picturesque returne or S. coast of Isle of Wight, Eng [U.S.A., p. 1, 870, 1870, 1870].

Black Hawk, mining t. in Rocky Mins. Colorado, Blackheeth, open common, S.E. London, Eng., N.W. end of Kent, po acre.

Black Hills, mins. between Dakota and Wyoming. U.S.A., highest. Harney's Peak, 2015, ft. Black Isle, the penting in N. Scotl., between Benaly Basin and Cromarty Firth.

Black Isle, the penting in N. Scotl., between Benaly Black Lake, nr. Ogdensburg, New York, U.S.A. Blacklarg, min. in co.'s Ayr and Dumfries, Scotl., st., 231 ft. 1840; works, p. 3-5450.

Blackley, 6. S.W. Lancash, figure of the Appalachms (Clingman) Feels, 6,947 ft.); also with range in Breok-nocksh, 8. Wales, highest peak, Breckmock Van,

2,65r ft.

Blackness Castle, on Firth of Forth, Linkingow,
Scotl., nr. Bolness; formerly State prison, now
ammunition depot.

Blackpool, ber. and watering pl., Lancash., Eng.,

Blackpool, ber. and watering pl., Lancash., Eng., p. 61,376.
Black River, effit. of Arkansas R., U.S.A.; also R. in New York, emptying into Lake Ontario; also affit. of the Ottawa R., Quebec; also forty other rivers (chlefly in America) in diff. parts of the world.
Blackrock, L. Ireland, suburb, 4 m. from Dublin, on the Bay, p. 9,68; a laso dist. of Buffalo, New York, on the R. Niagara, U.S.A., scene of fighting between British and Americans, 1820-14.
Blackrod, L. Lancash., nr. Chorley, Eng., p. 3,896.
Black, or Enxine, Sea, inlandsze between Russia and Asia Minor, 740 m. long, 390 broad, receives waters of Danube, Dnieper, Dniester, Don, Bug, and other rivers; communicates with Mediterranean by Strait of Bosphonus, Sea of Marmiora, and Dardanelles. Neutralised by Treaty of Paris, 1856.
Blackstond Bay, coast of co. Mayo, Ireland.
Blackstairs, metal. Leinster, Ireland, Inghest peak,

Blackstairs, mins. Leinster, Ireland, highest peak,

[p. 2,500. U.S.A., 2.610 ft. Blackstocks, vil. nr. Columbia, S. Carolina, U.S.A., Blackstone, t. on Blackstone R., Mass., U.S.A.,

Blackstone, t. on Blackstone R., Mass., U.S.A., p. 7,000.
Blackwille, vtl. S. Carolina, nr. Charleston, U.S.A., Blackwall, nverside dist. of Lond., par. of Pophar, Middlesex, N. of Thames. [Alabama, U.S.A. Black Warrior R. [300 m.], trlb. of Tombigbee R., Blackwater, three rivers, Ireland; two, Hants and Essex, Eng.; and three in U.S.A. (Montana, Florida, and Virginia).
Blackwood, t. in S. Australia, nr. Adelaide, p. 1,500.
Blackwood, W. Australia, 2,000 ft., South spur of Darling range, inghest peak, 2,000 ft. Blackwood R. falls into Indian Ocean at Hardy Inlet.
Blacenavon, iron mfgr. t. Mon., Eng., on R. Avon, 5 m. N. Pontypool, 12,010.

N. Pontypool, 12,010.

Blagodat, Russian mtn. on slope of the Urals, nr. Kushwinsk ironworks; largest deposit of magnetic iron in the world, alt. 1,270 ft. p. (dist.) 23,000.

Blagovestchensk, important t. on Amur R. cheft.

Blagovestchensk, important 2 on Amur R. chef t. of the Amur prov., Asiat. Russia, p. 40,000. [D. 7,200. Blain, f. nr. Nantes, prov. Lone-Inférieure, France, Blair-Athol, *ar. in Perlish., Scotl., p. 7,500. Blairgowife, f. 20 m. N. of Perth, Scotl., p. 3,500 j. also t. 's in Georgia, S. Carolina and Indiana. Blakeney, coast *ar. Norfolk, Eng., nr. Holt, p. 7,120. Blanc, Le, old £ Indre dep., France, p. 7,000. Blanc, Le, old £ Indre dep., France, p. 7,000. Blanc, Mt., highest on the Alps, on French and Italian frontier, alt. 15,762 ft. Largest glacter, Mer de Gacet Valley of Chamounik at foot. Blanca, Peak, highest *min.* in Colorado, U.S.A. 14,466 ft.

14,464 ft., r. in Manitoba, Canada. Blanchard, r. in Manitoba, Canada. Blanche Town, r. co Eyre, S. Australia, p. 1,484. Blanchland, township nr. Hexham, Northumberland,

Eng., anc. abbey.

Blanco, C., extreme N. of Africa, opposite Sardinia;
also several other headlands, on African coast and
elsewhere.

[p. 3.478.

eisewnere.

[p. 3.478.

Blandford, or Blandford Forum, mkt. t. in E. Dorset,

Blane, R. in Scotland, trib. of R. Endrick, and feeder

of Loch Lomond.

Blanefield, vil. Stirling co., nr. Kirkintilloch, p. 840. Blanes, Medit. pt. of Spain, N.E. of Barcelona,

Blanes, W. String C., in N.E. of Barcelona, p. 5,746.

Blanes, Medit. pt. of Spain, N.E. of Barcelona, p. 5,746.

Blankenburg, health resort in Harz Mtnis, Duchy of Brunswick, Germany, p. 11,500.

Blankerhurg, health resort in Harz Mtnis, Duchy of Brunswick, Germany, p. 11,500.

Blankyre, par, and mining dist. nr. Hamilton, Lanark co., Scolland; birthplace of Dr. Livingstone, p. 10,821.

Blankyre, lin Nyassaland, Brit. Cent. Apr. 5,262.

Blankyre, lin dep. Salme-et-Loire, France, p. 5,262.

Blanker, vil. 4 m. N.W. Cork, Ireland. Here is the famous caste and Blarney kissing-stone.

Blasket, or Blasquet Is., group off S.W. coast of Ireland, nr. Dngle, co. Ketry.

Blavet, R. in deps. Côtes du Nord and Morbihan, France (Sp. m.). Romantic scenery in upper reaches.

Blaye, p. or R. Gironde, nr. Bordeaux, S.W. France, the Roman Blavia, p. 5,640.

Blayney, F. N.S.W., 172 m. W. of Sydney, p. (of dist.) Bleiburg, lead mining t. in Carinthia. Austria, p. 3,500.

Bleicherode, f. nr. Nordhausen, in Pruss. Saxony, p.

3.507.
Blenheim, vil. on the Danube in Bavaria; Battle, Mariborough and Prince Eugene's "famous victory,"

Bienheim, cap. of Mariborough, dist. N.Z., p. 4,000.
Bienheim Park, castle palace of Duke of Mariborough, nr. Woodstock, Oxfordsh, Eng., built at cost of nation.
Biessington, mkt. i. in co. Wicklow, on R. Liffey, Ireland.

Ireland.

Bletchingley, vil. in Surrey, Eng., nr. Reigate, p. 9, 500.

Bletchiey, inpt. rr., fienc. in Bucks, Eng.; also 2 sm. t.'s in S. Australia.

Blevio, f. in Italy, nr. L. of Como, p. 2, 270.

Blida, or Blidah, f. Algirera, nr. the cap. on the first slopes of the Atiss Mins. Large orange-growing industry, p. 28,000 (one-fourth French).

Block, sts. summer resort off Rhode Isl., U.S.A., light-Bloemendaal, f. nr. Haarlem, N. Holland, flower-growing dist., p. 5,200.

Bloemfontein, cap. of Orange River Colony, p. 16,000 whites, and 15,000 natives.

Bloemfontein, and of Orange River Colony, p. 16,000 whites, and 20,000 natives.

Blois, c. on R. Loire, France, historic castle, once a sumptuous royal palace; p. 2,000.

Blomberg, 2, nr. Lippe, Germany, p. 2,874.

Blood R., 1rib. of Buffalo R., Zululand. [land. Bloody-Foreland, C., co. Donegni, N.W. coast of I re-Bloomfield, A. in Essex co., New Jersey, U.S.A. (formerly known as Wattesson, p. 11,300. Several other smaller t.'s same name in U.S.A. Bloomington, c. and ry. centre, M. Lean co., Ill., U.S. A., p. 25,000; also c. on Mississippi R., Iowa, U.S.A., p. 25,000; also c. on Mississippi R., Iowa, U.S.A. p. 25,000; also t. (with State University) in Indiana, U.S.A. Bloomispurg, iron mftg. t. in Penn, U.S.A. on Sus-Bloemisburg, iron m

Bluefields, A. and f. ill svicergum, which is p. 4,200.
Blue Hill, f. Hancock co., Maine, U.S.A., p. 8,500.
Blue Hill, f. anige, in Norfolk co., Mass., U.S.A.
Blue Island, sub. of Chicago, Ill., U.S.A., p. 7,100.
Blue Mins., E. part of Jamanac, alt., 7,000f.; also chain in N.S.W., highest peak 4,100 ft.; also long range (av. ht. 7,000 ft.) in Oregon, U.S.A.; also range nr. Chittagong, India, alt. 7, 100 ft.; also second main ridge of the Appalachans in Penn. and New Jersey, U.S.A. Blue Nile, or Bahre-1-Azrak, R. from the lofty table-lands of Abyssina, comes into confluence with the White Nile at Khartoum. Its periodic flooding is the creat fertilising agency of Egypt.

White Nile at Khartoum. Its periodic flooding is the great fertilising agency of Egypt.

Blue Ridge, southeasterly range of the Alleghanies, Virgunia and N. Carolina, U.S.A.

Blue Stock Min., co. Donegal, Ireland, alt. 2.213 ft.

Blufft Harbour, S. coast of S. 1sl., New Zealand.

Bluffton, c. Indiana, U.S. A., on Wabash R., p. 2,896; also t. in S. Carolina, ur. Savannah, p. 3,245.

Blyth, 3pt. (p. 4,950) and R. in Northumberland, Eng.; also names of 4 other rivers in Eng.; also vil. S. Australia, 2pt. N. Adelaide.

Boali, Bovali, or Loango, t. and dist. in French Congo, West Africa.

Boani, Boyan, or Loango, r. and assa (Africa. Congo, West Africa. Boavista, or Bonavista, most E. of Cape Verde Isls., Bobbili, r. m Brit. India, Vizagapatam dist. of Madras,

residence of Rajah, p. 17,000.

Bobbio, f. in prov. Pavia, Italy, 5,000.

Bober, R. in Germany (158 in.), joins R. Oder at Crossen; shallow stream in summer, torrential in

Böblingen, t. Wurtemberg, nr. Stuttgart, p. 5,000. Bobrinets, t. in S. Russia, govt. Kherson, on ry. to

Kieff; tobacco factores, p. 15.000.

Bobrulak, forters and mftg. f. in Russia on R. Beresma, p. (with military) 65.000.

Bochnia, ch. f. of salt mine dist. Galicia, Austria, Bocholt, f. in Westphalia, nr. Dutch frontier, cotton

industry, p. 22,500.

Bochum, J. in Westphalla, 11 m. W. of Dartmund, centre of steel industry, p. 65,554.

Bockenheim, N.W. std. of Frankfort-on-the-Maine, Hessen-Nassau, Prussia, piano mfts., carriages, &c.,

p. 23,400.

Bocking, par. in Essex, nr Braintree, Eng., p. 4,813.

Bod, trib. state, Orissa, India, area, 2,064 sq. m. p. 130,000. Bodalla, vil. N.S.W., 212 S. of Sydney, p. 084.

Boddam, fishing vil. Aberdeensh., Scotland, nr. Peter-

head, p. 1,000.

Bodega Bay, 10 m. long, California, U.S.A.

Bodenbach, t. m. Bohema, nr. the Saxon frontier, on

the Elbe, import. trade centre, p. 11,500.

Boden See, see Constance, Lake of.

Bodmin, co. t. Cornwall, Eug., p. 5,734 [p. 1,680.

Bodde, sml. 5pt. S. extremity of Lotoden Isls., Norway,
Bototia and Attica, prov. in Greece, area 2,481 sq. 111, p. 200,000.

Bog, or Bug R., affit. (300 m.) of the Vistula R., Poland. Bogan R., trib. of Darling R., N.S.W. Bogense, 19t. on Finnen Isl., Denmark, p. 2.100. Boggahr, t. in N.S.W., 292 m. N.W. of Sydney,

p. 7,240.

Boghaz Keni, sml. vil. nr. Yuzgat, in Asia Mmor, remarkable archeological remains and rock sculp-

Bognor, t. and seavide resort, Sussex, Eng. p. 8,142.

Bogodukhov, t. Russia, govt. of Kharkov, strongly

Bogodukhov, f. Russia, gott. of Kharaov, Strongy fortified, p. 13,000.

Bogong Mt., one of the dividing range, Victoria, Australia, alt. 6,508 ft. [woollen industria:.p 12,100.

Bogordask, f. of Central Russia, nr. Moscow, silk and Bogota, or Santa Fé de Bogota, cap. Republic of Colombia, S. America, stands on the San Francisco R. Many fine bdgs, and an unport. University, Sometimes styled the Athens of S. America, p. 200,000.

Bogra, or Bogura, t. and dist. Rajashahi div., Bengal, India; area of prov. 1,452 sq m, p. 850,000, cap., on R. Karstoya, p. 7,000. [p. 13,000 Boguslav, old trading & of W. Russia, govt. of Kiev, Bohain, &, dep. Ain, France, textile factories,

frontier of Bohemia. [p. 230,000.
Bohol, one of the Philippine Isls., 45 m. long,
Bohorodczany, r. Galicia, Austria, nr. Stanislawow,

(neighbourhood. p. 4,500.

Boise, ap. of Idahe, U.S.A., p. 6,000; hot springs in Bois Guillaume, t. nr. Rouen, France, p. 5,250 Bois-le-Duc or S'Hertogenbosch, cap. of N. Brabant, Holland; cgar factories, p. 30.00.

Boitzenburg, 7. in Mecklenburg-Schwerin. on R. Eibe, Bolador, c. at extreme S. of coast of Morocco, W. Afrea.

p. 13,000.

p. 13,000. Boli, anc. 1. in Kastamuni vilayet, Asia Minor, p. 11,000. Close by are the rains of Bithynnum. At Ilija, S. of the town, are warm medicinal springs. Bolivar, a dep. of the Republic of Columbia, South America, area 27,000 sq. m., p. 325 000, minily whites; also a province of Ecuador, area 7,100 sq. p. 45,000; also a State of S. Venezuela, area 87,000 sq. m., p. 70,000; also the cap. of the latter State, a city on the Orinoco (formerly called Angostura), p. 12,000 Angostura), p. 12,000.

Bolivia, inland Republic, S. America, bounded by

Brazil, Paraguay, the Argentine, Chili, and Peru

(area 724,340 bq. m., p. 2,500,000); cap. Oruro. Bolkhov, auc. 1, 35 m. N. Orei, Russia, on the Oka R., important industries and trade with Moscow; famous monastery. Optima Pustry, close by, p. 26,570; Winterson Pustry, imineral springs.

p. 26,570.

Boll, vil, in Wurtemberg, nr. Goppingen, p. 1,780;

Bollene, l. 20 m. N. Avignon, dep. Vaucluse, France,

p. 6,000.
Boilingen, vii. N.E. Berne, Switzerland, p. 3,854.
Boilington, t. nr. Macclesfield, Chesh., Eng., silk

mdistry, p. 5,225, md., p. 9,000.
Bollulos del Condado, f. m Span, nr. Huelva, p. 6,330.
Bollwler, vs. in Alsace, nr. Mulhausen, p. 1,486.
Bollmen, Z. in Sweden (20 m. by m.), nr. Christian-

stadt.

Bolobo, sta. in Congo F. State, 40m. above the Koango.

Bologna, anc. c. of Italy. 80 m. N. Florence, in prov.
ot same name. Area of prov. 1,392 sq. m., p. 50,000.
The city has p. 172.630, and many splendid bidgs.
It was origmally an Etruscan t. (Felsma), then a
Roman t. (Bonoma), and became united in 1860 to
the kingdom of Italy.
Bologoge, deft and important junction on the St.
Petersburg and Moscow Ry., N. Russii.
Bolor Tagh, mtm. range E. side Panne plateau, Cent.
Asia; highest pt 20,000 ft.
Bolsas, R. (225 m.) in S.W. Mexico; enters Pacific at
Zacatula.

Bolsena. L. (7 m S.W. Orvieto, prov. Rome, p. 2000)

Bolsena, Z. (7 m S.W. Orvieto, prov. Rome, p. 3,000) on L. (8 m. lough, occupying site of an extract volcano, the anc. Roman Lacus Volsmens)s. [p. 13,225] Bolsower, Z. co. Derby, Eng., 6 m E. of Chesterfald, Osloward, Z. Friesland, Holland, m. Lecuwarden,

Bolsward, I. Friesland, Holland, nr. Leeuwarden, D. 6,700. (Devon, Eng. Boit Head (430 ft.), rugged headland on S. coast, Bolton, or Bolton-le-Moors, nitty, I., S. Lancs., Eng., io m. N. W. Mainchester, p. 180,885. Bolton Abbey, or East Bolton, on R. Wharfe, nr. Skipton, W. R. Yorks, Eng., famous for its fine runned priory and beautiful surrounding scenery. Bolton-by-Bolland, or West Bolton, par. nr. Clitheroe, W. R. Yorks, p. 1,200. Boma, tia on Congo R., cap. Congo F. State. Bomaderry, vii. in co. Camden, N.S.W., p. 1,200. Bomas, tia on Congo R., to n. Aland Isl. in the Baltic: destroyed in 1854 by English and French. Bomballs, I m. muning and timber dist., N.S.W., 310 m. S.W. of Sydney. Bombay Presidency, India: area, including Sind and Aden, 122,664 St.M.D., 19,672,642; cap.c. Bombay, the

Bombay Presidency, India: area, including Sind and Aden, 122,643,0, m.p. 19,672,642; cap. c. Bombay, the chf. port of Western India, on Salsette Isl. in the Arabian S., the centre of cotton industry, p. 979,445. Bona, 37t. of Algeria, on G of B. in the Mediterranean, occupied by France in 1832. Seated in a fertile plain, p. 32,000 (12,000 French). Bonaca, or Bonacca, one of the Bay Isls. in the Caribbean Soa, belonging to Honduras; 9 in. long. Bonai, most southerly of the Indian trib. states, Chuta Navpur, Bengal.

Sonai, most southerly of the Indian trib. states. Chuta Vagpun, Bengal.

Bonaventure, R. Quebec, Canada, falls into B. o. Bonavista, chit to dist. of same name on Bonavista B., E. coast of Newfoundland, p. 2,500.

Bonawe, pretty vii. on R. Awe, Argylish, Scotl., nr Bonchurch, picturesque vii. S.E. coast of Isle of Wight, Eng., adjoining Ventnor.

Bondeno, t. Italy, 11 m. from Ferrara, p. 15,000.

Bondou, or Bondu, country, W. Africa, between the Senegal and the Gambia; French, explored first by Munou Park.

Mungo Park.

Mungu Park.
Bondues, France, dep. Nord, nr. Lille, p. 2,405.
Bonness, or Barrowstowness, spt. Linlithgowsh.,
Scotl., p. 10,546.
Bonham, t. Texas (cap. of Famin co.), U.S.A., important cotton dept. on Texas-Pacific Rys., p. 5,200.
Bonhill, t. Dumbartonski, Scotl., on R. Leven, p. 3,000.
Bonh, or Bone State, S.W. Peninsula of Celebes,
Dutch East Indies, area 2,548 sq. m., p. about 200,000. Ch. t. Boni, 80 m. N.E. of Macassar.
Bonifacio, 54t and fort, opposite Sardina, on Str. of
B. Corsica; cork-cutting industry, p. 4,500.
Bonin Ials, or Arzobispo Ials. Three groups N.
Pacific, 500 m. from Japan, claimed by the Japanesa

and by them called Ogasawarajima; 20 isis. in all, of voicanic origination, half of them very small, p. 5000. Bonn, £ Rhienish Prussia, on the Rhine; 21 m. from Cologne University; birthplace of Beethwen;

Boanétable, t. nr. Le Mans, dep. Sarthe, France,

p. 5,200.

Bonnsall, t. nr. Matlock, Derbysh., Eng., p. 1,248.
Bonny, t. in S. part of Nigeria, British W. Africa, at the mouth of R. Bonny, Bight of Bisfra, p. 70,00c.
Bonnybridge, vol. co. Stirling, nr. Falkirk, Scotl.,

p. 1,820.

Bonnyrigg, t. Midlothian, 7 m. S. of Edinburgh, Scotl.,
Bontuku, t. m French W. Africa, N. of Gold Coast,
important stn. for trade with Upper Niger.

Bonyhad, t. nr. Funftirchen, Hungary, p. 0,200
Boom, nitg. t. nr. Antwerp. Belaum on k. B.

Bonyhad, A. nr. Funkirchen, Hungary, p. 0,200.
Boom, nife, A. nr. Antwerp, Belguum, on R. Nupel;
extensive breweries, p. 16,000.
Boone, c. on Des Moinos, R. Iowa, U.S.A., p. 9,240.
Boonewille, c. in Missouri, nr. Jeflerson, U.S.A.,
p. 4,377; also smaller towns in Indiana, Arkansas,
Kentucky, Montana, and N.Y.
Boott, E. Victoria, c. 0, Giadstone, p. (dist ) 1,540.
Bootterstown, & Ireland, 4 m. S.E. Dublim, p. 4,000.
Bootterstown, & Ireland, 4 m. S.E. Dublim, p. 4,000.
Bootterstown, & Ireland, 4 m. S.E. Dublim, p. 4,000.

Boothia, penin. (area 13,100 sq. in.) and G. on Arctic coast, Franklin dist., Brit. N. America.

Bootle, t. suburban to Liverpool, Lancash., Eng., N.

Sydney.

Boras, I. on R. Wiske, nr. Gothenburg, S. Sweden, cotton spinning and weaving, p 15,500

Borbeck, industri. commune in Kline prov. Prus , nr.

Essen, p. 50,000. [p. 1,450. Bord-a-Plouffe, f. in Isle Jesus, nr. Montreal, Canada, Bordeaux, great wine sort on Garonne R., 60 m. from mouth; third p. in France, p. 262,000.

Bordelais, anc. name of French dist. round Bordeaux.

Bordentown, t. on Delaware R., N.J., U.S.A.,

p. 4,500.
Bordighera, Riviera winter resort, between San Kemo and Ventmigha, Italy, p. 3,800. [p. 3,500. Borger, A. ir. Assen, Dronthe, Holland, p. 6,000. Borgerhout, E. stab. of Antwerp, Belgium, candle and scheme factories. p. 47,000.

Borgetto, t. in Sicily, nr. Verona, p. 1,200; also t. nr.

Genoa, 7. 2,340.

Borgia, f in Catanzaro proc, Italy, p. 4,700.

Borgne, G. on coast of Louisiana, U.S.A., outlet of L. Pontchartrain.

Pontchartrain.
Borgo, & on Brenta, R., Austria, p. 5,400; also furtrading t. of Finland. p. 4,500.
Borgo Manero, & in Nowara prov., Italy, p. 0,560.
Borgo Mozzano, & nr. Lucca, Italy, p. 10,000
Borgo San Domino, & m Farma prov., Italy, the anc. Fidentia; grand Romanesque cathedral, p. 12,500.
Borgo San Lorenzo, & Italy, 20 m. N.E. Florence; olives and wme, p. 12,000.
Borgo San Sepolero, medieaval & in Tuscany, Italy, Borgu, Brit vassal state, Nigerna, W. Africa.
Bori, or Boree, fortified & in Afghanistan, in dist. same name.

same name.

Borinage, colliery dist. of Belgium, Hainault, p. 35,000.
Borisov, dist. £. of Russia, govt. Minsk, anc. foundation: Napoleon defeated here in 1612, before his disarrous passage of R. Berezina, p. 35,000.
Borisovka, £ in Middle Russia, nr. Kursk; thriving

Borisovka, f. in Muruse Aussia, in. Kiev, p. 6,000.
Borispol, c. Poltava, Russia, in. Kiev, p. 6,000.
Borispol, c. Poltava, Russia, in. Kiev, p. 6,000.
Boris, v. W. in Ecuador, at head of Maranon (Amazon)
R. p. 9,000.
Borikum, B., Prisian ct. (German summer resort) at
Bormio, vt. and Alpine resort in Lombardy, Italy,
in. Sondrio; and repute for its mineral springs,
p. 2,000.

Bornae, mftg. t. in Saxony, 20 m. S. of Leipzig, p. Bornae, mainly mountainous and very large \$1. in the middle of the East Ind. archipelago, area

s80,000, sq. m., p. r.\$46,000. Three-fifths belong to the Dutch; Sarawak, N. Borneo, and Bruni under Brit. control. Produce timber, rubber, tobacce, cotten, spices, etc.

Bornheim, suburban quarter of Frankfort-on-Maine.

Bornheim, suburban quarter or remunivarian suburban Germany, p. 7,000.
Bornhem, Belgian t. on R. Scheldt, p. 6,000.
Bornheim, (see Sq. m., p. 38,000). Danish sst. in Baltic; produces porcelan clay; cap. Ronne.
Bornos, t. on R. Guadalete, nr. Cadiz, p. 5,000.
Bornu, country of Central Souden, Airca, S.W. Lake Tchad; formerly a negro kingdom, new partly under French domination, and partly within Brit.
Protectorate of Nigena. Area 51,000 sq. m., p. (astemated) s 000,000.

(estimated) 5,000,000.

Borodino, vii. 72 m. W. Moscow, Russia; great battle fought here in 1812 between Napoleon and the [2,740.

Boroughbridge, t. on R. Ure, W.R. Yorks, Eng., p. Borovitchi, industl. t. m govt. of Novgorod, Russia, D. 12,000.

p. 12,000, Borrisoglebsk, industl. / in govt. Tambor, Russ, p. 12,010; also t. on R. Volga, in Yaroslav govt., p. 9,500. [mineral springs. Borozek, health resort in the Carpathians, E. Hungary, Borrowdale, romantic valley in Cumberland, Eng., with the black-lead nunes.

Borrowdale, romantic valley in Cumberiand, Eng., with the black-lead mines.

Borthwick, par. S.E. co. Edinburgh, with old castle in, Fushiebridge, Scot, p. 3,000.

Boryslaw, t. in petroleum dist. of Galcia, Austria, Borzhom, mat. pk. in Transcaucasia, Russ., called "the pearl of the Caucasus" Hot mineral springs and beautiful scenery.

Borzona, dist. t. S.W. Russ., at junction of R. Desna Bosco Reale, t. at foot of Vesuvius, Italy, p. 9,000; Bosco-tre-case, t. or Vesuvius, Italy, p. 9,000; These were the figures at the time of the terrible eruption of April, 1906, when the lava streams of the volcano wrought such havoc as practically to destroy Bosco-tre-case, large numbers of the inhabitants losing their lives, and the rest fleeing in terror.

Bosna, 8th of Sarduna, p. 6,050.
Bosna, R. (150 m.), affli, of R. Sove, Bosnia,
Bosnia, mountainous proc. of Turkey in Europe, now Austro-Hungarian terr., area (with Herregovina) 10,700 8tl, in., p. 1,500,000, clap, Bosna-Sections (150 Control Control

Anstro-rungarian term, area with arrangement, 19,700 st, m., p. 1,500,000, cap. Bosna-Serai, p. 50,000.
Bosphorus, or Str. of Constantinople, between Black Sea and Sea of Marmora, separating Europe

from Asia Minor Boston, yr. in Lucolnsh., Eng., on R. Witham, p. Boston, yr. in Lucolnsh., Eng., on R. Witham, p. Boston, syr. c. and car. of Mass., U.S.A., second commerci. c. and install bustoric in America, also chf. centre of learning, p. 070,585 (with "Greater Boston")

over a million.

over a million.

Boston Spa, hydropathic resort on R. Wharfe, 9 m.

S.E. Knaresboro, W.R. Yorks., Eng.
Bosworth or Market Bosworth, L. Leicestersh, Eng.,
memorable for battle between Richard III. and
Richmond (Henry VII.), 148;.

Böszormeny or Hadju-Böszörmeny, t. in Hungary,

Boszormeny or Hadju-Boszormeny, L. in Hungary, nr. Debreczin, famous for its fairs, p. 25,090.

Botany Bay, famous inlet, 5 m. S. of Syduey, N.S.W., discovered by Cook 1770, sometime an Eng. penal colony.

Bothkennar, par. in co. Stirling, Scotl, suburban to Bothnia, Gulf of, N. of Baltre, between Finland and Sweden, breadth (abr.) 100 m.

Bothwall L handr by Classing on Clude a new form.

Bothwell, A Lanark, nr. Glasgow, on Clyde, p 3, 015 [of par. 54,801]; also vil. and co. m Ontario, Canada, also pastoral dist. on R. Clyde, nr. Hobart in Tasmana.
Botonsani, & Roumania, N. Moldavia, in rich passoras

Botonsani, t. Roumania, N. Moldavia, in rich pastoral country, p. 33,500.

Botzen, t. in wine-growing dist, Tyrol, Austria-Hungary, on the Eisach, p. 14,500,

Bouches-du-Rhone, prosperous dep. in S. France, area 2,006 50, m., p. 750,000, cap. Marsollles.

Bougainville, E. ain Paragonia, Str. of Magellun.

Bougainville, C. on coast off Timor Sea, W. Australia.

Bougainville Mt. New Growing, m. Humboldt Bay.

Bougainville Mt. New Guinea, nr. Humboldt Bay.

Bougie, yd. in Algeria, prov. Constantine (the Roman Saldæ) on B. of Bougie, impt, trade centre, p. 24,000.

Bouillante, t. in French col. of Guadeloupe, W. Indies,

Boulies, f. and forevers in the Ardennes, Belg., on R. Semoy, p. a,680 in dist. (formerly a Grand Duchy), new forming W. portion of prov. of Luxembourg. Boulage. Geo Bulaki.
Boulay, f. in Loraine, nr. Metz, p. 2,740. [B. 8,500. Bouleder, 6, and ce. Col., U.S. A. (important mining dist.), Bouletenia, f. Africa, cap. of Bondau, nr. the Falome, n. e.200.

p. 3,200.

Boulogne (sur Seine), S.W. sub. of Paris, p. 45,000.

Boulogne (sur Mer), wat, pt. and spt. on N. coast,
France, as m. from Calais, the Roman Bononia

France, 45 m. from Casais, the Koman Bonoma Georiacum; p. 90,000 Bounarbaahi, wi. in Asia Minor, supposed site of Troy. Bounty, ri. of E. Cape, N.Z., uminhabited. [4,980. Bouraville, 4. N.S. W. 349 m. N. of Sydney, p. (of dist.) Bourbon, lale of. (See Reumon.). Bourbon lale of. (See Reumon.). Bourbon lale of. (See Reumon.). Bourbonne-les-Bains, t. in dep. Haute Marne, France, the Roman Vervona Castrum, noted mineral springs;

p. 5,200.

Bourdeau, t. in France, dep Drôme, p. 1,460.

Bourg-en-Bresse, t. cap. Am dep., France, fine ch., p. 18,760.

p. 18,760.

Bourges, military and metallurgical t., cap. Cher. dep.,
France, p. 46,000.

Bourgest, t. on L. B. Savoy, France, p. 1,870; also vil.
6 m. N.E. Paris.

B. Black Sca. p. 5,000

Bourgeas, or Bourgeas, stt. of Rounella, on Gulf of
Bourgogne.—(See Burgundy.)

Bourgoin, t. on Isère R., nr La Tour-du-Ph. France,
Bourte, t. on Darling R., copper ore dist., N.S.W.,

Bourne, t. S. Lines, lagoon of Upper Egypt, 5 m. E. of Rosetta, in the Nile delta.

Bourne, t. S. Lines, Eng., nr. Spalding, p 4,344.

Bournemouth, pop. wat. pt. on Poole B., Hants,

Bournemouth, pop. was. 21. on Poole E., Hants, Eng., p. 78.577.

Bournwile, model indust! 1. (or "Garden City") nr. Birmingham, Eng., founded by Mr. Geo. Cadhury, p. 6.500.

Bouro, or Beroe, st. Malay Archipelago, claimed by Bouscat, Le, 1. (residential sub. of Bordeaux), dep. Gironde, France, p. 12,000.

Bouse, or Bussa, 24. of Boussa country, Nigena, Central Africa, p. 10,000; Mungo Patk died here in Bousous, 1. in Belgium, nr. Mons, p. 10,150.

Bouvines, 112. Nord dep., nr. Lille, France; great battle (victory of French over Otto IV.) 1214.

Bousousdouk, 1. in gov. Orenburg, Russ., p. 10,000.

Bovey Tracey, 11/2. E. Devon, Eng., nr. Moreton Hampstend, p. 24.00.

Hampstead, p. 2,240
Bovino, t in prov. of Foggia, Apulia, Italy, p. 8,200.
Bow, E. dist. bor of London, Eng., industri. (properly Stratford at-Bow). wan.

Bow, R. in Alberta, N.W. Can.: head of R. Saskatche-Bowden, A. in S. Australia, suburb of Adelaide, p. 3,260.

Bowen, F. in S. Austrana anonto a secondary p. 3.044.
Bowen, 59t. in N. Queensland, on Port Demson, 725 m.
N.W. of Brisbane, in fine pastoral country, p. (of

dist.) 2,500.

Bow Pell (2,960 ft.) min. in Borrowdale, Cumberland,

Bowlor Harp) Isls., Low Archipelago, S. Pacific, Bowling, populous indust. sub. of Bradford, W.R. Yorks, Eng., p. 61,927. Bowling Green, t. Warren co., Kentucky, U.S.A., p. 8,500; also t. in Wood co., Ohio, p. 5,200.

Bowmanville, pt. on L. Ontario, Can., nr. Toronto,

p. 5,000.

Bowness, f. co. Westmorland, Eng., on l. Windermere, p. 1,950; also t. on Solway Firth, Cumberland, Eng., p. 1,500.

Box, vsf. in quarrying dist., 5 m. E.N.E. Bath, Wilts, Box Hill, ar. Dorking, Surrey, Eng., waturesquely wooded, fine views.

Boyaca, dep. of Republic of Colombia, America, area

Boyaca, asp. of Aspenie of Colombia, America, area 33,300 Sq. ni, p. 570,000, cmr. Tunja.
Boyaca, f. on Bay of B., N. W. Madaguscar. [p. 6,000.
Boyaton, f. in Virginia, cap. co. Mecklenburg, U.S.A.,
Boyar R. (130 m.], asfit. of Missouri, Iowa, U.S. A.
Boyle, mk. A. Roscommon co., Ireland, on R. Boyle, p. 3,000.

Boyas, R., Leinster, Ireland (20 m.), fises in Kadine and falls into the sea below Drogheda. Battle of S., 1690, ar. Drogheda. Battle of S., 1690, ar. Drogheda. B. Drogheda. Battle of S., 1690, ar. Drogheda. B. Drogheda. Battle of S., 1690, ar. Drogheda. B. Drogheda. Battle of S., 1690, ar. Drogheda. Brahani, N. Drogheda. Brahani, N. Drogheda. Brahani, N. Prop. Holland, S. of Gelderland; upper half of former Duchy, area 1,980 sq. m. p. 359,287. Produces grain, holys, bestroot, etc., cap. Hertogen-bosch (or Bois de Fuel, p. 3,000 (moted Cathedra). Brahani, S. cent. Prov. of Heighum, lower half of former Duchy; area 1,268 sq. m., p. 1,863,807. Fettlle and wooded: many breweres and manufactures; cap. Brussels (q.v.).

Fradford, in W.R. Yorks, Eng., on R. Braddock, ironworking L in Fennsylvania, on Monon-gehela R., ur. Pittsburg, p. 17,500. Dr. Bradford, L in W.R. Yorks, Eng., worsted, wooden, and silk manufs, p. 288,505

Bradford, C. in petrol region, M'Kean (o. Penn., U.S.A., p. 26,000; also several smaller t.'s in U.S.A., and one in Ontario, Caiuda.

Bradford-on-Avon, in Rg. C. Wilts, Eng., nr. Beth. Bradling, large par. Eastern extremity of isle of Wight, Eng., once a Parl. bor, p. 1,732.

Bradford, In Deven, Ling, nr. Exter, p. 1,850.

Bradona, R. in Iraly, Basilicate (60 m.), flows to G of Taranto.

Bradona, R. in Italy, Basilicate (60 m.), flows to G of Taranto.

Braemar, par. in the Grampians, Abendeensh., Scotl., containing Ralmoral (Royal cattle) estate.

Braeriach, wire., Scotl., co.'s Inverses- and Aberdeen,

alt. 4,248 ft.

Braga, c. cap. of Minho, prov. Portugal, nr. Oporto,

Braga, 2. cap. or minno, prov. Portugal, m. vposto, in wine-growing dist, p. 25,000.

Braganca, or Braganza, f. with mediarval castle, in Tras-os-Montes prov. Portugal, p. 5,840: also spt on Atlantic coast, Brazil, p. 6,000.

[p. 17,520 Brahmanbria, f. in Tupnerah dist., Bengal, India, Brahmapuri, f. in Cent. Provs., India, Chandra dist.,

D. C.000 Brahmaputra, a great R. of Asia (total length about 1,800 m.) rising under the watershed of the Mariam 1,800 m.) rising under the watershed of the Mariam La (alt. 15,500 ft.) it flows along the N. side of the Himalayas, through Tibet (where it is called the Saupe, and later the Dihong), emerging into the plains of Assam. Thence it winds through Bengal, Joining the Ganges at Goulanda to form the estuaries, emptying ultimately in the Bay of Bengal. It is navigable to the enominous height (at Janglache) of 13,800 ft. above the sea level. above the sea level.

Braidwood, colliery t. Will co., Illinois, U.S.A., Braila, Ibrail, or Brahilov, t. on Danube, nr Galatz, Roumania, gt. grain centre, p. 60,000 (une-tenth lews).

Braine-la-Leude, A nr. Brussels, Belgium, p. 8,000. Braintree, t. Essex, Eng., on Blackwater, p. 6,168.; also vil. nr Boston, Mass., U.S. A., p. 4,000. Brambanan, famous vil. m Java, S. of Marapi; many

Hindu temples.

Hindu temples.

Brampton, A. Derbysh, Eng., suburban to Chesterfield, p. 2,125; ulso mkt. t nr. Carlisle, Lumberland,
Eng., p. 7,982.

Brancepeth, large industrial per. on R. Wear, co.
Branco, R., Brazil, prov. Baha, sfilt. Rio Grande,
120 m.; also R. in N. Brazil (370 m.), flowing to Rio

Prendenburg (15,410 sq. m. p. over three mills.), prosperous mining and agr prov. of Prussis; cap. Brandenburg, on R. Havel (simpling, p. 5,000.).

Brandon, f. Maintalia, Canada, p. 14,000; also mkt. t. on Lit. Ouce, Suitolk, p. 5,863. [4,127] R. Brandon, Mt., nr. Trilec, co. Kerry, Ireland, alt. Brandon and Byshottles, indust. f. in Durham co., Eur. 16,168.

Eng., p. 17,008.
Brandywine Creek, R. Chester, co. Pa., U.S.A., joins the Delaware; battle in 1777 between British under Howe and Americans under Washington, latter defeated.

Branford, wat. pl. on Long Is., Connecticut, U.S.A., Brantford, pt. of entry on Grand R., Ontario, Canada, D. 24,000.

Brankfolme, f. in co. Normanby, Victoria, p. (dist.) 3,000; also t. mr. Launceston, Tasmania. [20 m. Bras d'Or, méter. C. Breton isl., arm of sea, 50 m. by Brasparts, f. in France, dep. Finisterre, p. 3,340. Brass, R. and f. West Africa, in Guinea, arm of Niger Brass, R. and f. West Africa, in Guinea, arm of Niger

Delta.

Bratsberg, mins., forest dist. of Norway, between Christiania and Christiansand, area 5,844 sq. m., p. 9,000. Bratskov, r. in Siberia, on the Angara R., N. of

Irkutsk, p. 4,500.
Bratzlav, f. on R. Podollo, Russ., p. 5,000.
Bratzlav, f. on R. Podollo, Russ., p. 5,000.
Bratmanu, f. Bonnia, Austria, nr. the Prussian frontier, scene of Bohemia, Austria, nr. the Prussian frontier, scene of Bohemia, Property in the Thirty Years' War, scene or much infitting in the Intry Years way, p. 7,800.
Braunbirschen, indust. *dist.* nr. Vienna, Löwer Braunscherg.* (.mirg.), nr. Koningsberg. Fruss., p. 13,000.
Braunschweig. — (See Brunswick.)
Braunschweig. — (See Brunswick.)
Braunschweig. — (See Brunswick.)

Braunton, par. in N. Devon, Eng., at mouth of R. Taw, p. 2,215.

Srava, c. Zanzibar coast, mftg. and trading centre, p. Brava, most S. sr., Cape Verde group, area 45 in.

p. 6,540.
Bravo del Norte.—(See Rio Grande.)
Bray, par, co. Berks, Eng. nr. Maidenhead, p. 2,978;
also, t. in co. Wicklow, Ireland, on R. Bray, now a
pop. wat. pl. (the "Brighton of Ireland"), res. p. 7,500.
Brazil (2,31,60 s.Q. m., p. 18,500,000). Largest state
in S. America, and very little less in area than
Europe. Vast forests and productive plains; cap. of
the Republic, Rio de Janciro (q.24).
Brazos (50 m.), R. in Texas, U.S.A., flowing from the
Staked Plain to the G. of Mexico.

Brazos (50 m.), R. in Texas, U.S.A., flowing from the

Brazza, fertile Dalmation is .. in the Adriatic ; silkworm culture, p. 25,000 [Stanley Pool Brazzaville, frontier stn. on Up. Congo R., Africa, nr. Breadalbane, mountainous dist. in W. Perthshire, Scotl., contains Loch Tay; also vil. in Tasmania, nr. Launceston.

Launceston.

Breage, coast *ar. Cornwall, Eng., nr. Helston, p.

Brechin, L. with anc. cathedral, on S. Esk. Forfar,

Scotl. fone of the Montrose Burghs), p. 8,439.

Brecknocks Beacons (highest peak, 2,910 ft.), mtns. in

S. Wales, 5 nt. S. of Brecon.

Brecknocksalre, inland co. S. Wales, area 743 sq. m.;

agricult., wooded, and mineral (anthracite coal), p. 59,598.

Brecknock, or Brecon, L. cap. of co. of Brecknocks.n.

Breds, anc. L. Holland, 5 m. N. Antworp, p. 26,200.

Fortress, which has several times been besueged.

Bredsdorp, dov. and L. Cape Colony, p. 7,200.

Bredbury, L. in Cheshire, Eng., adjoining Stockport, p. 9,590.

Preudury, t. in Constitution, Pruss.; (ship-building), p. 9,593.

Bredow, t. sub. of Stettin, Pruss.; (ship-building), p. 20,000.

[Port Beaufort, St. Sebastian Bay.

Bredents, t. cap. Vorariberg, Austria, at E. end of L. Constance, the Roman Brigantium; industrial (with garrison), p. 7.700.

Breisgau, old div. Ger., in Swalvia, now part of Baden.

Breitenbach, t. in Schwarzburg-Sondershausen, Ger-

Breitenbach, t. in Schwarzburg-Sondershausen, Germany, p. 3,100.

Breitenfeld, 101. 25 m. N.N W. Leipzig, battle, 1631 also 168, also "Battle of the Nations," 1813.

Brejo, t. in Brazil, prov. Maranhão, p. 3,200.

Brembio, t. in Italy, prov. Milan, p. 3,200.

Brembio, t. in Italy, prov. Milan, p. 3,200.

Bremme, free 1022 of the German Empire, area 99 sq. m., p. 295,000; cap. c. Bremen, on R. Weser, one of the Hanse towns, a busy commercial ceptre, p. 164,000.

Bremerhaven, out-port of Bremen, the chi. emigration Brenham, c. of Washington co., Texas, cotton-growing region, p. 6,000.

Brennam, c. or washington co., sexis, cutton-growing region, p. 6,000.
Breno, t. on the Oglio, nr. Bergamo, Italy, p. 3,540.
Brent, R. do m.), Eng., trib. of Thames.
Brenta, R. in Italy, flowing (108 m.) from the Tyrol to Brentford, co. t. Middlx., Eng., p. 16,584, [C. of Venice.
Brentwood, mkt. t. nr. Chelmsford, co. Essex, Eng.,

p. 6.083.
Brescie, industi. c. (with fine cathedral) in N. Italy, p. 83,393; cap. of prov. same name; area of prov. 2845 sq. m., p. 600,000.

Breslau, cap. Silesia, Prussia, on the Oder (5th c. in Germany in point of p.-511,891); important indus-tries, educational institutions, and military establish-

tnes, educational institutions, and military ostablishment. Breslan govt. dist. has p. 1,750,000.

Bressay, 426. in Shetland group, Scotl, separated from Letwick by Bressay Sound, the rendezvous of whaling vessels.

Brest, fortified naval fort, N.W. France, dep. Finisterie, depth of fleet of the Republic, fine harbour, has seen nuch severe fighting, p. 90,540. [p. 45,000] Brest Litowalk, mifg. 4. in Govt. Grddion, Russ. Foland, Bretagne, or Brittany, old from of N.W. France.

Breton, Cape, 526. belonging to prov. Novia Scotla, separated from mainland by Strait of Canso. Fishery hdgrs., coal-producing and agricult.; area 3,120

hdqrs., coal-producing and agricult.; area 3,120 sq. m., p. 70,000; clif. t. Sydney.

Briansk, t. 75 in W. Orel, Russia, on the Desna R.,

important industries, p. 25 pos.

Brianza, dist. of Italy, iir. L. Como (area 170 sq. ni.), fav. summer resort, called "the Garden of Lombardy."

Bride, K., trib. of Blackwater (sg. ni. long above yougha); also R. (14 ni.), affite of R. Lee, co, Cork. ireland, Bridgehampton, vil. nr. Riverhead, Long Isl., N. York, Bridgend, mkt. t. Glam., S. Wales, p. 8,021.
Bridge of Allen, wat. pl. on Allen Water, co. Stirling,

Scotl., p. 3, 127.

Bridgenorth, L. Shropsh., Fng., on R. Severn. nr.

Shrewshury, castle several times besieged, p. 5,768.

Bridgeport, 39. Conn., U.S.A., extensive infig., p.

[U.S.A.] Bridger's Pass, over Rocky Mtns., Wyoming Terr., Bridgeton, spt. Cumberland co., New Jersey, U.S.A.,

p. 14,500. (32,000. ridgetown, cap. (on W. coast) Barbados, W.I., p. Bridget, St., Par. nr. Egremont, co. Cumberland, Eng. Bridgewater Canal (38 m.), Manchester-Runcom-Leigh, Passes over Manchester Ship Canal by

Leigh. Passes over M swing bridge at Barton.

Swing bridge at Barton, p. 4.000; also several smaller is, in U.S.A. and Canada. Bridgwater, or Bridgewater, t. and port on R. Parret. Somersei, fug., near where Battle of Sedgemoor was fought, p. 16,802 Bridlington, t. (inportant fishery and water, pl.) on fine bay, L.R. Yorks, 16 m. S.E. of Scarborough, p. 1.100.

fine bay, L.R. Yorks, 16 m. S.E. of Scarborough, P. 14,334.
Bridgorf, Inkt. 1. and port on R. Brit, Dorset, Eng., rope-making. p. 5,919, also t. on L. Champlain, Vermont, U.S.A., p. 2,000.
Brieg, 1. in dep Finisterre, W France, nr. Quimper, Brieg, or Brigue, 6. in Switz, canton Valais, p. 1,500.
Brieg, cigar infig. 1 on R. Oder, Pruss, Silessia; military castle, p. 22,000.
Brieg, cigar infig. 1 on R. Oder, Pruss, Silessia; military castle, p. 22,000.
Brien, or Brill, forthfield 5ph, on Voorn Isl., R. Mass, Brienne, or Brienne-le-Chateau, 1. on Aube R., France; here Napoleon defeated the Allies, under Blucher, Brieg, p. 2000.
[3 in], cauton Bern, Switz.
Brienze (p. 2,850), t. on Lake B. (length \$\frac{3}{2}\text{ m. breadth}} brieffield, 4. in Lancs, Eng., nr. Burnley p. 8,360.
Brierley Hill, mitg. t. Staff., Eng., on R. Stour, p. 12,364.
Brigantine Isl., wat, \$\frac{1}{2}\text{, N.J., U.S.A., ir. Atlantic City.}

Brigg, mkt. f. Lines., Eng., Agriculti. dist., p. 3,343. Brigham, industi. f. on R. Derwent, Cumberland, Eng., p. 9,100; also f. in Utali, U.S.A., p. 3,000. Brighouse, mtg. f. W. R. Yorks, nr. Huddersfield,

p. 20,845 Bright, t. in Victoria, co Delatite, p. (dist.) 3,850. Brightling sea, t. on R. Colne, Essex, Eng., p. 4,404 Brighton, fash. Eng. wat. pt. on Sussex Coast, 50 m.

Brighton fash. Eng. wat. pl. on Sussex Coast, so in. S of London, p. 31. 250.

Brighton, wat. pl. on Port Philip Bay, nr. Melbourne. Brighton, wat. pl. nr. Adelaide, S. Australia, p. 3,000; also d. in co Monnouth, Tasmanla, p. 3,000; also port on Presquile Harb., Ont., Can., p. 4,000; also d. in Macoupin co., Illinois, U.S.A., p. 3,000.

Brighton, New, wat. pl. at mouth of R. Mersey, 3 m. from Liverpool, p. 8,700.

Brignalo, vil. io m. S. Bergamo, Italy, p. 3,446.

Brignaloes, t. Var, dep. Provence. France, p. 6,000.

i, f. nr. St. John's, Newfoundland, p. 2.417. ben, a " Holy City " on R. Jumna, Muttra dist.

mostly mountain and desert, area 45,804 sq. m., p.

Ata,coo. (See Quetta.)

British Columbia, colony in Brit. N. America,
Western prov. of the Dominion of Canada, area 305,610 sq. m., p. 392,480, princ. t., Victoria, Vancouver Isl.

British East Africa, a British Protectorate fronting on the Indian Ocean from the equator to about lat. 5 S.; including the old B. E. Af Co,'s ter, and the Uganda and Zanzibar protectorates; area about

the Uganda and Zanzhar protectorates; area about 1,000,000 50, in; cap. Mombiasa.
British Guiana, on N. coast of S. America, area 90,277 94, m; p. 205,713; cap. Georgetown.
British Honduras, Brit. Col. in Central America, on B. of Honduras, area 8,508 sq. in., p. 40,800; cap. British India.—(See India.)
British North America, name formerly used for what is now known as Newfoundland and the Dominion of

Good Hope, Natal, Zumant, the Franswat, and the Orange Free State [q.w.], are jouned in one legislative union, provision being made for the admission of Rhodesia and other territories later.

Britash West Africa, includes the Gambia, Sierra Leone, Lagos, Gold Coast, and Nigeria (q.w.).

Briton Ferry, p. at the mouth of R. Neath, S. Wales, 0.8474.

Briton Ferry, p. at the mouth of R. Neath, S. Wales, p. 8,474.
Brittany, prov. and former govt. of N.W. France, cap. Reims, the Roman Armonca.
Brive, or Brives, t. in Corrèze dep., France, impt. truffles and straw-work trade, p. 20,000.
Brixen, fort. t. in Tyrol, on the Bremer Pass, Austria, silkworm and wine-growing dist, p. 6,000.
Brixens, west. pl. in S. Devon, Eng., p. 7,054.
Brixtons, or Brightstone, par. on S.W. coast of lale of Wight.
Brixton, S.W. residential dist. of London, Eng.
Broach, or Bharuch, an ancient c. and modern dist, on

Brikton, S. W. residential dirt. of London, Eng.
Broach, or Bharuch, an ancient c. and modern dist, on
G. of Cambay. Gujerat div. N.W. Prov., India,
p. (of c.) 42, 200, (of dist.) 201, 200.
Broadford, vtl. in Isle of Skye, Scott, on R. and Bay
of same name; also t. in Victoria.
Broad Mitna, a ridge in Penn., U.S. A., Schuyikill co.,
sight in code.

rich in coal.

rich in coal.

Broad River (soo m.), in N. and S. Carolina, U.S.A., rising in the Blue Ridge, and joining the Saluda at Columbia. Elgy, residential p. 10,095.

Broadstairs, seaside resort, in. Ramagate, Kent, Broadwater, per in. Sussex, Eng., 10 m. W. of Brighton and suburhan to Worthing.

Brock, or Brock-in-Waterland, sml. f. nt. Amsterdam, Holland, famous for its neatness, p. 1,640.

Brocken, highest pt. (alt. 3,745) of Hartz mins.

Prussian Saxony, Germany: Roman Mons Bructants; romantic witch legends and famous spectral illusion. Brockhaven, c. on Long Isl. Sd., N.Y., U.S.A., residential, p. 14,500.

dential, p. 14,500.

Brockport, £ on Erie canal, N.Y., U.S.A., p. 4,800.

Brockton, busy boot mfg., £, Mass, U.S.A., p. 56,878

Gone-fourth foreign born.

Brockton (or Lippincott), wil. nr. Toronto, Ontario,

Brockville, £ and port of entry on R. St. Lawrence,

Ont., Can., p. 9,200 [good transit trade, p. 7,250.

Brod, £ of Crotian Slavonia, Hungary, nr. Save R..

Brodlet, wat. \$\psi_*\$, in Arran, Firth of Clyde, W. Scotl.,

p. 1,200 Brody, important commercial centre in Galicia, Austria, nr. Russian frontier; p. (of t.) 17,000, (of

Austria, in. decased dat.) 13,000.

Broglie, & in Eure dep., France, nr. Bernay, p. 1,540.

Broken Bay, inlet of Pacific, 20 m. N. of Sydney, N.S.W.

[925 m. W. of Sydney.

Broken Hill, important silver mining & in N.S.W.,

Land March 1, 10,000 for the R. Posen, Priss., nr. the R. Bromberg, iron-works L. Posen, Pruss., nr. the R. Vistula, p. 54,580. [p. 1,974 Bromborgough, par. nr. Birkenhead, Cheshire, Eng., Bromley, L. Kent, Eng., 6 in. E. of Croydon; a residential subart of London, p. 33,649. Brompton, S. W. sub. dast. of London. [p. 1,175, Brompton, S. W. sub. dast. of London.

Bromsebro, t. in Sweden, on Bromse R., nr. Calmar.

Bromsento, 7. in Sweden, on Bromse K., nr. Caimar, Bromsgrove, old mkt. 2: 3 n. S.W. of Birmingham, in Worcestersh, Eng., button making, p. 8,028. Bromwich, West, mitg. 6. Staffs, Eng., 4 m. N.W. Birmingham, p. 68,345. Bromyard, mkt. 4. on R. Frome, Herefordsh., Eng., Bronnitza, 4. nr. Moscow, Russia, p. 6,430. [p. 1,702. Bronte, 2n. on L. Ont. (2n., p. 1,05); also: taift. of Mt. Htna, Sicily, prov. of Catmin, p. 17,500. Brookline, subn. 4. nr. Boston, Mass., U.S.A.

Mt. Fitna, Sicily, prov. of Catama, p. 17,500.

Brookline, subn. f. nr. Boston, Mass., U.S.A.,
numerous fine villas, p. 27,792.

Brooklyn, c. at W. end of Long Isl., U.S.A., opposite
N.Y., with which it is connected by a susp. bridge
across East R.; p. of the extended dist of the c.
formerly forming King's co. 1½ mill.; Brooklyn is
mainly residential, but has numerous mfrg. and
commercial interests.

Broom, lock on N.W. coast of Ross and Cromarty,
Brorn, vil. and R. of co. Sutherland, E. Scotl.
Brosselev, mitt. L. on R. Severn. Siropshire, Eng., 72 m.

Brorles, vid. and K. of co. Sutherland, E. Scotl.
Broseley, mkt. £ on R. Severn, Shropshire, Eng., r3 m.
S.L. of Shrewsbury, p. 6,679.
Brothers, The, a group of rocky titlets in G. of Aden,
at entr. to Str. of Ballelmandeb.
Brotton, Ł. N.R. Yorks, Eng., nr. Guisborough, p. 4,340.
Brough, mkt. £ in Westmorland, Eng., nr. KirkbyStrabbare, p. 4,600.

Stephen, p. 1450.

Broughton Bay, sniet on E. coast of Corea, N. of Port Lazaref and Gensun; also a bay at N. end of

Simush Isl., one of the Kuriles.

Simush Isl., one of the Kuriles.
Broughton Croek, t. in N.S.W., 100 m. S. of Sydney.
Broughton-in-Furness, mkt. t. N.W. Lancs, m.
Ulverston: iron and copper mines; p. (of dist.)
6,400; also t. nr. Brigg, Lincolnsh., p. 1,200.
Broughty Ferry, t. and wat. t. on Firth of Tay, at m.
E. Dundee, Stotl., p. 1,105, [Walsail, Eng., p. 16,866.
Brownahilis, collery and ming t. Staffs., 5 m. N.
Brown Mt., 16,000 ft. one of the "Rockles," Br.
Columbia; also name of a snil. t. in pag and dairy
farming dist. on Benbook a R., N.S.W., nr. Candelo.
Brownsville, t. and tert on Rio Grande, Texas,
U.S.A., p. 6,500.

U.S.A., p 6,500.
Broxas, t. Spain, nr. Caceres, p. 5,200.
Broxburn, nin. t. Linlithgow, Scotl., p. 7,100.
Brozzl, t. nr. Florence, Tuscany, Italy, p. (of dist.)

10,000.

Bruar, R. Perthsh., Sco.L., with famous falls, an affit. R. Garry.

[P. 4,807.

Bruay, c. France, dep. Nord, nr. Valenciennes, Bruchasl, c. Baden, Germany, on R. Salbach, nr. Heidelberg; extensive manfix, p. 14,000.

Bruck, c. in Lower Austria, on Leitha R., 24 m. E.S.E. Vienna, p. 4,250; name also of tns, in Styra, nr. Gratz, p. 5,150, andsia Bavaria, nr. Erlangen, p. 3,50.

Bruff, mkt. c. nr. Kilmallock, co. Kerry, Ireland, p. 1,250.

D. 1,750.
Bruges, cap. of E. Flanders, Belgium, 14 m. E. of
Ostend; lace factories and many fine old bidgs.

suitanate; area abt. 1,700 sq. in., p. abt. 25,000, of whom 15,000 live in the cap., also called Brunes. The State is now under British protection.

State is now under British protection.

Brunn, cap. of S.E. Tasmana, area 120 sq. m.

Brunn, cap. of Moravia, fortified Austrian t. (cloth mftg.), 90 m. N. Vienna, on K. Schwartza, p. 109,346.

Brunn has been many tinnes besieged, and was occupied by Napoleon in 1805, and by the Prussians in 1806.

Brunnewton, t. in S. ist. of New Zealand, colhery data.

Brunnsbutel, 59t. of Prussia, on N. bank of Elbe, prov. Schleswig-Holstem, good harbour, p. 2,20.

Brunnswick, 59t. in Georgia, U.S.A., 9, 9,500; also ton Androscoggan E., Maine, U.S.A., 9 m. N.E. of Portland, p. 7,200; also t. w. Australia, Wellington dist., p. 2,400; also t. m. Melbourne, Victoria, p. 24,182

24, 182

24,252

Brunswick, Duchy of (z,424 sq.m., p. 470,550), Germany, agric., nuneral, and afforested, with much mountainous country, including most of the Hartz range; cap. Brunswick, on R. Ocker, many manits;

range; cap. Bemiswick, on R. Oeker, many means, p. 128,250.
Brunswick, New, maritime prov. of Canada, area 28,200 Sq. m., p. 360,500, cap. Fredericton, largest c. St. John (g.w.).
Brusa, or Broussa, c. in Asia Minor, 60 m. S. Constantinople, the aric. Pruss. and present cap. of Asiatte vilayet of Khodavendikyar; produces wines and fruits, and mfig. carpets and tapestry; p. 75,000. Was cap. of Bithymia Just prior to the Christian Era, and later for a time of the Ottoman Empire; p. of the prior over 1 20,000. mainly Moslems. The dist. the prov. coer 1,500,000, mannly Moslems. The dist. has great mineral wealth. Brussels, cap. of Bulgrunn, on R. Senne, 30 m. S. of Antwerp. Contains many imposing bldgs., and is of

Antwerp. Contains many imposing bidgs, and is of much indust unportance, its carpets, lace, and other textile products being world-famous, p. nearly 700,000.

Prague to Pilsen: many manny, p. 22,000.

Bryan, & Ohio, U.S.A., on L. Shoze riy., p. 3,500; also t. Texas, U.S.A., c. of Brizos co, p. 3,840.

Bryher, one of the Scilly sels. (2 m. long) off the coast of Conveall. Fig.

of Cornwall, Eng.

Brynmawr, 11. with famous ladies coil nr. Philadelphia, Penn., U.S.A.; also t. in E. Brecon, Wales,

nr. Abergavenny (extensive iron works), p. 6,850.

nr. Abergavenny (extensive iron works), p. 6,850.
Brezany, ¿. Galicia, Austra-Hungary, garrison and leather factories, p. 11,500. [Warsaw, p. 6,500.
Brazyri, wrollen mftg. £. Poland, 63 m. S.W. of Bras, Dalmatian 13£. in Adnatic Sea, opposite Tran, p. 3,700. The anc. Boæ or Bavo, a pl. of bunishment under the Roman emperors. [dist.] 250.
Brangor, £ 130 m. W. of Melbourne, Victoria, p. (of Bucalan, £. Luzon, Philippines, 20 m. N.W. of Mania, p. 10,000.

Bucaramaga, 7. in min. disk of Santander, Columbia, p. 18,000. [Ocean, off N. W. coast of Australia. Bucasaer Archipelago, group of 1sls. in the Indian Bucahed, f. in Sicily, prov. Syracuse, p. 4346. [Succisech, gless in co. Selknik, Scott., included in

Ettrick par.

Buchan, Bullers or Boilers of, dangerous macks on Aberdeensh. coast, Scott, S. of Buchan Ness.

Buchan Ness, C. nr. Peterhead, E. Scotland.

Bucharest, or Bukarest, cap. of Roumana, on R. Dembovitza. Great commrcl. and rly. centre; one of the strongest fortnesses in Europe, by has often suffered stegs and capture, p. 282,000.
Bucholz, lace-making t. in Saxony, 18 m. S. of Chomnitz. h. 8200.

Bucholz, iace-imaning nation of the property o

Eng., p. 2430.

Eng. p. 2430.

Suckharet, Methil, etc., £ on Firth of Forth, co. Fffs,

Buckharet Hill, rural ddr. nr. Epping Forest, Essex,

Eng., 10 m. N.E. London, p. 4897.

Buckie, fish t. co. Banff, Scott., p. 8,897.
Buckingham, former co. t. Bucks, Eng., on R. Quae;
milk-condensing, p. 3,282.
Buckingham, a Fenn., co. Bucks, U.S.A., p. 3,890;
also t. on Ottawa R., Ont., Canada, p. 1,980.
Buckinghamshire, Eng., S. Madland, agn. co., agea
740 sq. m., between Thames and Ouse R., p. 249,883.
Buckland, suburban &st. of Dover, Eng., p. 4,289,893.
Bucyrus, t. on Sandusky R., Oluo, U.S.A. (machine

mitg.), p. 7,200.
Buczacz, Galicia, Austria-Hungary, nr. Stanislawow, p. 11,500 (maunly Polish).

p. 17,500 (mainly Poissh).

Budapest, twin-cap, of Hungary, Buda on right bank and Pest on left bank of Danube, 170 m. from Vienna; p. (including garrison) 880,000. Many fine buildings and misituitons. Wine manut, chief undustry.

Budaun, c. and dest. N.W.P. India, Rohilkhand div. Area of dist. 2017 sp. in., p. over a million. Indigo factories. Budaun t. has rums of immense fact and increase.

mosque, p. 38,000.
Budawang Mtns., in Coast Range. N.S. W., alt. 3,800 ft.
Bude, or Budehaven, picturesque vsl. L. Cornwall,

Eug., p. 2,979
Budesheim, 7. in Hessen, nr. Bingen, p. 3,100. [6,800.
Budiana, 2. N.W P. Intha, Muzeffarangar dist., p.
Budikot, f. in Kolar dist., Mysore, India, p. 2,100.
Budiet, p. Salterton, mar. pl. E. Devon, Eng., p. 2,170.
Budro, industri f. nr. Bologna, Italy, p. 7,000.
Budukhshan, or Badakhshan, terr. in Afghan Tur

kestan, p. 65,000. Budweis for Budwitz, t on Moldan R., E. Bohemia.

Austria; principal commercial centre of S. Boliemia,

many manufactures, p. 40,000

many maintactures, p. 40,000
Budworth, Great, large mdustri, far adjoining Northwich, co. Chester, Eng., p. 13,703.
Budzanow, t Calicia, 7 m. N. Czortkow, j. 5,200.
Buenaventura, 59t. in Colombia on Choco Bay; also t in Mevico, 140 m. N.W. of Chihuahua,
Buena Vista, 2nd in State of Coahula, Mexico, where American force under Gen. Taylor defeated Mexicans and Resembly beaut chamber.

American force under Gen. Taylor defeated Mexicans in 847 with beavy staughter.

Buen Ayre, or Oon Air, Dutch W.I., 15te off Venezuela Buenos Ayres, great port on W. side of La Plata estuary, cap, of Argentine, Largest c. in S. Meini sphore, p. 846,500. The prov. or Buenos Ayre-covers an area of 127,777 sq. in., and is clussly schoger, or grazing land, with a p. (including the c.) of 1,140,067; Lallata is the provincial capital.

Buffalo, c. on L. Eris, N.Y. State, of rapid growth and great commercial importance, p. 423,715; also t. Miss., U.S.A.; p. 8,000; also R. in Natal and R. in Tennessee, U.S.A.; also inth. of Dividing Rauge, Victoria, alt. 5,381 K.

Tennessee, U.S. A.; also inth. of Dividing Rauge, Victoria, alt. 5,381 ft.

Bug R., brib. of Dinoper (340 in. long) in Russia.

Buga, industr. t. Colombia, Cauca State, p. ra,000.

Buggenhaut, t. Flanders, nr. Dendermond, p. 5,200.

Buggienhaut, d. Saoul, W. of Florence, Italy, p. 11,250.

Bugle Ranges, upland dist. str., in. S. Australia, nr. Adelaide, p. 2,500. [Bugulma R., p. 8,000 Bugulma, trading c., Samara govt., Russia, on Buhl, c. nr. Carlsruhe, in Baden, p. 3,200.

Builth, A. with medicinal springs, on R. Wye, N. Brecon, Wales, p. 4.237.
Buitenzorg, A. and Prov. Java, part of Dutch residency of Bultung area.

of Bairvia, area 7,447 eq. in. In the t. usually cosides the Gov.-Genh of the Dutch E. Indies. Builalance, c., 25 m. E. of Cordova, Spain, p. 10,000. Buit, c. in Prussia, in Poson, p. 3,200. Buithara.—(See Bokhara.)

sue, f. in Frussia, nr. Posen, p. 3,220.
Buckara. (See Bokhara.)
Buckkarpetnam, f., Anantapur dist., Madras, Indile, p.
Bukken Flord, suite on W. Coast of Norway, with
sml. isl. of same name.
Bukkur, fortified ici., Sind, where ry. crosses R.
Indus, in Shikapur dist.
Bukowina, front. Prov. Austria, E. Galina, p. 739,006
Bulak, port and sub. of Carro, formerly contained the
famous sational museum, now at Girch.
Bulandshahr, i. and dist., N.W.P., India, between R.
Ganges and Jinma, in Mesent dist., area 2,905 sq. m.,
p. nearly 1,000,000, ch. centre of trade, Khurga.
Bulawayo, largest it in Southern Rhodesia, S. Aftica,
p. 8,500.

p. 8,500. Buldana, £ and dist. in Berer-Hyderabad div., Brit India, p. 423,000.

Buldur, or Burdur, t. in Konia, vilayet of Asia Minor,

Buldur, or Burdur, A. in Konia, whayet or Assa mano, linen weaving and leather tanning, p. 12,000 Bulgaria (including E. Roumelia, area 43,000 sq. m.), p. 5,500,000; satuated between Danube and Koumelia; independent kingdom. After winning much additional territory by the Balkan war of 1912, it lost most of it again in the later war of 1912, ecking 2,200 sq. m. to Rumama. Cap. Sofia, ch. pt. Varna.

of it again in the later war of 1973, ecching 2,000 sq. na. to Rumana. Cap. Sofia, ch. pt. Varna.
Bulla, t., co. Bourke, Vict., p. (dist.) 2,000.
Buller R., Nelson prov., Sonth Isl., New Zealand, falls to Facific at Westport; also min., one of Dividing Range in Victoria, all. 5,924 ft.
Bull, coal port, so m. S. Sydney, N.S. W.
Bull Run R., faift. of Occopian R ) in N E. Virgina;

two Confed. vict. 1867-1863 Buln Buln, t, so m. E. Melbourze, Vict, on Brancy Bulsar, t. in Surat dist., Bombay, India, p. 12,000. Bultiontein, damond nine nr. Kunberley, 5 Africa.

Bulti, name of part of Kashimr, also known as Little Dutti, name of part or Kashinir, also known as Little
Tibet. Bul-Tul, min. pars between Kashinir and Little
Bundbury, ppr., W. Austraha, 172 m. S. Perth, p. 3000.
Bund, t. in Jind State, Punjab, India, p. 3,884.
Bundaberg, industri. t. on Burnett R., Quoensland;
sugar factories, p. 15,000.
Bundala, t., Amitsar, dist. Punjab, India, p. 5,210.
Bundanon, t. in co. Canada, N.S.W., 95 m. S.W. of

Sydney.

Bundanoon, I. in Co. Canada, N.S.W., 95 in. S.W. of Sydney.
Bundarra, I., Hardings co., N.S.W., 957 in. N. Sydney.
Bunda, I. in Prussia, nr. Hereford, Westphalia, p. 3. too.
Bundelkhand, Aist., partly Brit., partly nat., in N. India, between Jumna and Chambal R. area 20,550 sq. in., p. over 3,500,000. The native States are under the Central India Agency, the Bitsh in the N.W.P. Bunder, port in S. Arabia, 12 in. W. Aden. [Govt. Bunder, port in S. Arabia, 12 in. W. Aden. [Govt. Bunder, Abbas.—(See Gombrun.)
Bundi, nat. state in Rajputana, India; area 2,245 sq. in., p. 17,127, 27. Town of Bundi, p. 2,544
Bundoran, wast, pl. S. W. Donegal, Ireland, p. 1.040.
Bundrags, sh. vit. Co. Lentini, in. Bundoran, Bungaree, t. co. Grant, Vict., p. (dist.), 5,000.
Bungary, inkt. f. on Waveney R., Suffolk, Eng., p. 3,139 in., t. Co. Grant, Vict., og in. N. Melbourne, Bunker Hill, Charlestown, now part of Boxton, Mass., U.S.A.; Battle 17 June, 1775, betwoen Amer. and Brit.

Brit.

Buntingford, mkt. t. Herts, on R. Rib. Eng., p 5.034

Bunzlau, t. on R. Isor, Prussn. Silesia, nr. Liegnitz,
noted for its brown pottery, p, 15.000.

Bunyip, t. 50 m. E. Melbourne, Vict., p (with dist.)

Buochs, vol. Unterwalden, Switz., on L. Lucerne,
p, 1.500.

Burano, tst in Adriatic, 5 m. N.E. of Venice; t. on

Burdekin, R., in Queensland, flows sint Cleveland B.

Burdiehouse, vol. in Scotl., nr. Edinburgh, kime

burning industry.
Burdwan. See Bardwan.
Bure, R. Norfolk (50 m.) trib. of Yare.
Burg, cloth safte, Pruss., Saxony, 13 m. from
Magdeburg, industry tounded by French Protestant exiles, p. 22,500.

exiles, p. 22,500.

Burgas, perr on G. of B., Black Sea, coast of S.

Bulgaria, fine harbour, good trade, p. 12,000.

Burgdorf, t. st m. N. E. Bern, Swatz, p. 6,690; also t.

on the R. Aa, Hanover, p. 3,000.

Burgess Hill, t. sml residential dist. nr. Brighton,

Sussex, Eng., p. 5,124.

Burghauses, t. Bavarra, 60 m. E. Munich, on Salzach

Burghause, t. Bavarra, 60 m. E. Munich, on Salzach

Burghausen, t. Bavarra, 60 m. E. Munich, on Salzach

Burgherstorp, t. in Cape Colony, 90 m. N. of Cape

Buggh-in-the-Marsh, mkt. 4;nr. Spisby, Linc., Eng.,

n. 2,200.

p. 1,250.
Barglen, vii. nr. Aktorf cant. Uri, Switz. Brrilplace
Burglengenfeld, t. in Bavaria, nr. Rattsbon, p. 3,484.
Burgo-de-Oama, t. nr. Soria in Spain, p. 3,240.
Burgos, ***vvv. Old Castile, Spain area 5,481 sq. m.,
p. 340,400; can. Burgos ciry on Arianzon R.; fine
castinedual; and gued trade in paper, gloves, etc.,

p. 31,900.
Burgundy, famons wine dist. E. France; formerly a prov. (cap. Dijon): ra,000 sq. m.
Burhanpur, t. on Tapti R., Nimar dist., Cent. Prov., India; important trade, p. 30,000.

Burlganga, R., Bengal, Decca dist. formerly main chan. of Canges.

Burlma, 19t. Newfoundland, W. of Placentia B., 2430.

Burlma, 19t. Ambala dist., Punjab, India, on Junna Canal, p. 7,500.

Burke, extensive pastoral 21st. Queensland, between Mitchell and West Kennedy dists.

Burketown, post 2. on Albert R., N. Queensland, 1,500 n. N.W. of Brisbane.

Burley, 19t. in Wharfedale, W. R. Yorks, Eng., 18t. Ottey; also par. on N.W. of Leeds, p. 3,762.

Burlngton, c., cap., Des Moines co., on bluffs of Mississippi R., Iowa, p. 24,000; also c. of Burlington co. (on Delaware R.), N. J., p. 7,450; also port on E. side L. Champlann, Vt., containing the State University, p. 20,000; also some thirty other small t's of sume name in U.S.A. There is a ufface called Berrington, too, in Canada, on L., Ontario (p. 1,200).

Burma, India's largest 19to, having a total area of 256,788 g.m. and a p. of 50,290.00, and forming most westerly part of Further India. Greatest R. the Irawaci; cap. (Lower Burna) Rangoon, (Upper Burna) Mandalay. Chief product rice; there are valuable expanses of teak forest; and precious stones, gold, silver and copper exist in places to a considerable extent. gold, silver and copper exist in places to a consider-

ble extent.

Burnham, par. nr. Maidenhead, Bucks, Eng. (p. 11,768); containing the pixture-sque public woodland, "Burnham Beeches"; also war, pi. nr. Bridgwater on the Somer-et coast, p. (of par.), 3,948; also Burnham Thorpe, Nelson's lutriplace, vil in Norolk, nr. Holkham; also numerous other parishes in different parts of the United Kingdom, and various sml. i.'s in the U.S.A; also dist, so m. fr. Christchurch, in the S. isl. of New Zealand. (p. (of dist.) 6,500. S. isl. of New Zealand. [p. (of dist.) 6,500. Burnie, f. in Tasmania, 100 m. N.W. of Launceston.

surrue, t. in 1 asmania, 100 m. N.W. of Launceston, Burnley, mftg., weaving and iron-wkg and colliery t., 20 m. E. Preston, Co. Lancaster, Eng., p. 105,337. Burnstilland, wat. pt. on P. of Forth, East Fife, Scotl., nr. Kirkaldy, p. 4,707. [Staffs., Eng., p. 6,500. Burntwood, t. and undustri. par. nr. Lichseld, Burra, E. and W., two of Shetland Isls., Scotl., uncluded in the par. of Bressay. Burna Burra, conper manuar dist. in S. Australia.

included in the par, of Bressy.

Burra Burra, copper manue dist. in S. Australia,
100 m., N. Adelaide

Burrard Inlet, Brit. Colum., off G of Georgia, on it is

Vancouver, terminal port of C.P.R.

Burray Isl., one of the Orkneys, Scotl., in South.

Rosaldshay pas.

Journama, J. on R. Bechin (nr. the sea), prov.

Castellon, Spain, orange growing district, iv. 12,134.

Barrilliville, 6. in Provincience, Rhode isl., U.S.A., onc
of the largest t.'s in New England, chiedy rural.

Burrow Head, C. on S E. coast of Wigtownsh., Scott. Burrowa, dist. in N.S.W., 225 m S W. of Sydney, p. 5,000. [co. Vict., 173 m. N.W. of Melbourne Burrumbeet Lake (with sin. ist, settlement), in Ripon, Burry, an estuary or inlet of Carmarthen Bay, Wales, with lighthouse, p. 4,599.
Burscough, suburban towaship of Ormskirk, nr. Liespool, S.W. Lancs, Eng., remains of Priory, p. 2,235.
Burslem, t. in great pottery centre, Staffs., Eng., 10,4100. p. 6,800.

Bursten, f. in great pottery centre, Staffs., Eng., p. 44:753.
Bursatyn, f. in Galicia, on R. Lippe, nr Brzczany,
Burton-in-Kendal, mkt. f. Westmorland, Eng., p. 2.80.
Burton-on-Trent, mftg. f. in S.W. Derby and E. Staffs. Eng., immense brewertes, p. 53:700.
Burton-Staffer, por. on Trent-side (milling), N. Lincsh, Eng., p. 700.

Burtrask, 1. 50 m. N. of Umca, Swed . p. 7.125 Burtrask, 1. 50 m. N. of Umca, Swed . p. 7.125 Burtscheid, mftg. suburb of Anxla-Chapelle, Rhenish and has some Prussia, produces cloth, needles, etc. and has some

Prusski, produces cloth, needles, etc. and has some famous mineral springs, p. 15,000.

Buro, est. in Amboya group, Moluccas, Dutch East Indies, area 3,905 og m., p. 20,000.

Burujird, prov. of Persia, very fertile, between Luristan, Irak, syapahan, and Hamadana, p. 29,000; cap. Burujird, on plain nr. R. Tahlji, Africa p. 5,000.

Burwins, d. in Bornu on W. shore of Lake Tchad, Cent. Burweod, vst. nr. Sydney, N.S. W., p. 1,500; also t. ns. Newcastle, N.S. W., p. 1,500; also t. ns. Newcastle, N.S. W., p. 1,500; also t. ns. Newcastle, N.S. W., p. 1,500; also t. ns.

Bury, cotton mftg. t. S.E. Lancs., 10 m. from Man-

Bury, cotton mig. 1. S.E. Lancs, 10 m. Hom Main-chester, p. \$6,649.
Bury St. Edmunds, anc. 1. in I. of Ely, W. Suffolk, cap. of East Anglia, monastic remains, p. 16,785.
Busaco, hamlet in Biera, nr. Coimbra, Portugal; battle 1810. Wellington defeated Massen.
Busby, 1, 7 m. S. of Glasgow, on White Cart R., p. 2,400.
Busca, 1, Fiedmont, Italy, on R. Maira, p. 9,500.
Buschtiehrad, mkt. 1, in Bohemia, Austria, nr. Prague, in coalfield dist. (extensive Imperallerwewry), p. 3,550.
Busco, 1, in Wallachia, Roumania, 60 in. N.E. Bucharest, p. 12,000.

rest, p. 12,000.

Bushire, or Bander Bushar, port of Persia, on the Fars coast of Persian G., the seat of the governor of

Fars coast of Persian G., the seat of the governor of the Gulf ports, p. 25,000.

Bushmilla, mkt. & co. Antrim, Ireland, nr. Portrush and the Giant's Causeway, p. 1,200.

Bussa, or Boussa, native & in Nigeria, British W. Africa, nr. where Mungo Park lost his life in 1805.

Basselten, or Vasse, c. in S.W. or W. Australia, 144 m. from Perth, p. 1,216.

[p. 8,500.

Russarto, industri & nr. Parma, on R. Ongina, Italy.

rom retth, p. 1,216. [p. 6,500. Busseto, industri. t. nr. Parma, on R. Ongina, Italy, Bussoleno, t. on R. Dora, Italy, nr. Susa, p. 3,940. Bussorah. —(See Bassorah.)

Bustard Bay, inlet on Coast of Queensland, Australia, with lighthouse off Bustard Head, nr. Rockhampton Busuluk, fortified \(\ellipsi{L}\), gov. Samara, on B. R. Russia,

p. 15,000.

Bute, 25% in F. of Clyde, Scotl : part of the insular co. mc. Bute, Arran, the two Cumbraes (Gt. and Lattle), Pladda, Inclinarmock, and Holy Isle. But e proper is 16 in. long and 3 to 5 in. broad, p. 12, 162, Wille the entire county has a p. 07 18,786. Rothe-say (9,70) is the cap. of Bute 1sl. and the co. t. Kyles of Bute the name of the stront between the isl. and Angylls in the name of the stront between the isl. and Angylls in the name of the stront between the isl. and Angylls in the name of the stront between the isl. and Angylls in the name of the stront between the sl. and Angylls in the name of the stront between the sl. and Angylls in the name of the stront between the sl. and Angylls in the name of the stront between the sl. and Angylls in the name of the stront between the sl. and Angylls in the name of the stront between the sl. and Angylls in the name of the Butler, t. 25 m. N. Pittsburg, Pa., U.S A. (glass mftg.)

Butler, A. 25 m. N. Pittsburg, Pa., U.S. A. (glass mftg.) p. 20,728,
Buton, Dutch ist. in the E. Indies, one of the Celcbes,
Butow, P. Pomer ma, Pruss, nr. Coslin, p. 5,000
But of Lewis, promontory with lighthouse at N. end
of isl. of Lewis, Hebrides, Scotl.
Butte, largest c. in Montana, U.S. A., centre of greatest
copper-mining region in the world. p. 39,165
Buttermere, 7st. hind picture-sque I., Cumberland,
Fig. The L is 1½ m. long, and ½ m. wide.
Butterworth, industri. tozon/hip, S.E. Lanes, Eng.,
part of Kochelale par., p. 20,000 [p. 2,420
Butterworth, industri. tozon/hip, S.E. Lanes, Eng.,
part of Kochelale par., p. 70,000 [p. 2,420
Butterworth, industri. Avanchist, S.E. Lanes, Eng.,
part of Kochelale par., p. 70,000 [p. 2,420
Butterworth, industri. Oc. Cork, Ireland, on R. Awbeg,
Butturlinovka, busy tannery L. Votonezh govt. Rissio,
nr. Bokrov, on the great lighway to Saratov, p.
24,500. [Rostock, p. 5500.
Butzow, L. in Mecklenburg-Schwerin, Germany, nr.
Buxar, or Baxar, fortified L on Ganges, nr. Benares,

Butzow, A. in Mecklenburg-Schwerin, Germany, nr. Buxzar, or Baxzar, fortified A. on Ganges, nr. Benares, Bengal, India; here in 1764 British force under Hector Munro defeated native army.

Buxton, was, 9A. in the High Peak dist. of Derbysh, Eng., D. ro,coz, alt., roof. it. above sea-level. Also t. in York co., Maine, U.S.A., p. 3,300; also pastoral dist. in Victoria, 60 m. N.E. of Mellbourne.

Buyukdere, or Bujukerdere, summer resort on Bosphorus, or n. N. Constantinople.

Buzeu, A. in Roumanus, ch. of dist. same name, 80 m. from Bucharest. Fine old cathedral, p. 22, 120.

Buzzard's Bay, milet of the Atlantic, S.E. of Mats., U.S.A.

U.S.A [S Pacific.

U.S.A. [S Pacific Byam Martin's I. one of the Low. Arch, group, in the Byblos, \( L \) in Nile delta, Egypt, S. of Bubastis (the modern Tel-Basta). Byelostock, \( L \) our Prussian border of W. Russia, woollen factories, p. 65,000. [Kisluneff, p. 20,000. Byeltsy, cattle-trading \( L \) in Bessarabia, Russia, nr. Byers Green, \( tewnship suburban to Bp. Auckland, Durham, Eng., p. 2,850. Bykund, ruined \( L \) of Turkestan, nr. Bokhara. Byron C., the most easterly pt. of Anistralia, on the Pacific coast of N.S.W., a little S. of the Queensland border line.

border line.

Bytown, the former name of Ottawa, Canada.

Caacaty, t. in Argentina, nr. Carrientes, p. 4,230.
Cabagan, t. in N. extremity of Luzon, Philippine isls., p. 12,000.

Cabatuan, f. on Tigum R., Panay, Philippine Isls.,

p. 18,000.
Cabes, or Gabes, spt. nr. N. Africa, on G. of Cabes, 200 m. S. of Tunis city, p. 12,000.
Cabeza del Buey, sml. t. Spain, 86 m. E.S.E. of

Cabeza der Bery, sini. 2. spain, so in 2.5.2. of Baddjos, p. 7,500.
Cabezuela, 4.on R. Jerty, nr. Placencia, Spain, p. 1,920.
Cabiao, sml. 2. in Luzon, Philippine Isls., N.W. of Mamila, p. 5,400.
Cabo Frio, 59t. Brazil, nr. C. Frio, p. 5,240.
Cabo Friati, entrance to G. of S. Lawrence between C. Breton Isl, and Newfoundland.

Cabra, t. Spam, 30 m. S.E. of Cordova, with college and other import institutions, p. 14, 500. Cabrera, one of Balearic Isls. in the Mediterranean, 9 m. S. of Majorca, a penal settlement.

Cabriel, R. Spain (130 m.) trib. of Jucar in New Castile. Cabul.—(See Kabul.)

Cacahuamilpa, remarkable cave nr. Mexico C. Cacapon, A. W. Va., U.S.A. (130 m.), falls into the Potomac.

Potomac.

Caccamo, f. Palermo, Sicily, p. 8,000. [p. 2,540.

Caccawone, f. in Italy, in. Agnone, prov. Campobasso,
Cacres, prov. of W. Span, area 8,014 sq. in., pastoral
and silk rearing (decaying) cap. of saine name;
largest bull ring in Spain, p. (of prov.) 362,000 (of
city) 13,000. The anc. Castra Caccilig.

Cachar, dist. Surnia Valley div., Assum, India, area
(excluding hills) 2,47 sq. in. p. 885,000; most flourishing centre of tea-growing in India.

Cachoeira, d. vi., Raina, Rizali, gold mines. p. 4.240.

Cachoeira, t. nr. Bania, Brazil, gold mines, p. Cadder, C. C. Lanark, Scotl., 5 m. N. of Glasgow, Caddo, L. N. Texas, U.S.A., 20 m. long. [p. 17,000. Cadenabha, on L. of Como, Lombardy, beautiful resort, opposite Bellaggio. 76077, opposite nemargio.

Gadenet, 7. dep. Vaucluse, France, nr. Avignon, Cadereita, 2. in prov. Queretaro, Mexico, p. 5,200.

Cader Idris, mtn. Meinonethsh. Wales, alt. 2,020 ft. Caderousse, t. on R. Rhône, Vaucluse dep., France,

Lacerousse, f. on K. Khone, Vaucluse dep., France, p. 3,250.
Cadillac, c. Much. U. S. A., in forest dist. on Clam L., Cadillac, maritime \$ppop. in S. Spain, area 2,835 sq. m., p. 425,000; cap. of same name, c. on 1sl. of Leon; sherry, cork, fruit, salt; p. 71,500.
Cadiore, or Pieve di Cadore, f. N. Italy, nr. Bellund, ph. 7,200.
Cadore, or Pieve di Cadore, f. N. Italy, nr. Bellund, ph. 7,200.
Cadsand, or Cassandra, 1sl. at mouth of W. Scheldt, Caen, c. cap. dep. Calvados, France, fine church and abbey, tomb of William the Conqueror, 1001 ore extensively exported. p. 45,000.
[Castle n. 1, 200.
[C extensively exported, p. 45,000. [castle, p. 1500. Caergwrie, t. in Fint, Wales, nr. Wrexham, runed Caerleon, t. Monmouthsh, Fing., on R. Rusk, p 1,370. Caerphilly, t Glam., S. Wales, busy conl and iron centre, p. 15,850.

Cæsarea, c. of Cappadocia, Asia Mmor, the modern Kaisariyeh, p. 50,000; once the residence of the Roman govr. of Palestine, now busy trade centre.

Caffraria.—(See Kaffraria.)
Cagayan, prov. of Luzon, Philippine Isls., p. 80,000.
Cagli, L. Central Italy, prov. of Pesaro and Urbino, p. 10,500.

Cagliari, Italian prov., comprising S. half of Sardinia; cap. on bay at S. end of isl., fine cathedral and

Cagliari, Italian prov., comprising S. nail of Saruma; cap. on bay at S. end of isl., fine cathedral and university; p. 54,000.

Cagnano, f. in Italy, prov. of Foggia, p. 4,200; also f. in Aquila, S. Italy, p. 2,480.

Cagsana, f. in Allany prov., Luzon, Philippine Isls., Caha Mtns, Ircland, co.'s Cork and Kerry, Inghest pt. Cahabon, f. Guatemala, in Coban, p. 6,200.

[2,20,6]. Caher, mkt. f. co. Tipperary, Ireland, on R. Suir; anc. castle and abbey; p. 2,500.

Caher, mkt. f. co. Tipperary, Ireland, alt. 2,706 ft.

Cahir, f. on Valentia Harbour, co. Kerry, Ireland, p. 2,100.

Cahirsiveen, vil. on R. Valencia, in. Cahir, opposite Cahla, or Kahle, vil. in Saxe Altenburg, in. Rudolstadt, p. 2,800.

Cahors, f. France, cap. of dep. Lot; dyeworks, Caibarien, sugar-shipping port of central Cuba, p. 7,500.

Caicos, or Caycos, group of W. India Isls., dependicalion, t. in Louisiana, U.S.A., in. Mexican Guif.

Cairnaple, vil. Linlithgow, Scotl., alt. 1,498 ft. [1,212.

Cairney, par, in co. Aberdeen, Scotl., in. Huntly, p.

Cairngorm, min., Inverness. and Banff., Scotl., alt.

Carringorm, was, inveness, and bann, scotl, air, 4,684 ft.
Cairn Ryan, coast vil. on Loch Ryan, Wigtownsh.,
Scotl. of Brisbane; sugar, gold, tin, p. 2,000.
Cairns, 50t., Queensland, on Trinity Bay, 900 m. N. W.
Cairntoul, mm. Inveness, and Aberdeensh., Scotl.,
alt. 4,241 ft.

Cairo, the linsy cap, of modern Egypt on R. bank of Nile; p. 580,000; also t. Italy, nr. Savona, p. 4,500; also c. Ill., U.S.A., confl. of Mississippi and Olno,

also c. Ill., U.S.A., COIII. OI MISSISSIPP MAN COINT, extensive traffic; pr. 13,5-0.

Calistor, mkt. f. N. Lincolash., nr. Brigg, Eng., p. 7,48;; also village (with runned castle) nr. Yarmouth on Norfolk coast, pr. 2,050

Caithness, or. Scotl., most northern part of mainland, herring fishery, p. 32,008, ch. t.'s Wick and Thurso lp 12,000 l Naples, (q.2). [p. 12,000 caveano, industi t. Italy, 8 m N.E. of Naples, Cayamarca, dep. of N. Peru, area 14,538 sq. un., amung mid agricul, p. 250,000. Calabar, dist. Upper Guuca, W. Africa, Nigeria Protectorate; very unhealthy.
Calabar, New, R. Ibranch of Niger at Delta), falls into B. of Blaffar ou W. African coast.
Calabora, dev. extreme S.W. Italy, mountainous and (a.v.).

Calabozo, A. in State of Guarto. Venezuela, p. 6.250.

Calabra, dzo. extreme S.W. Italy, mountainous and fertile, area 5,819 sq. m., p. 1,147,000.

Calada, A. in Roumana, on the Dambe; grain trade; Calabora, A. in prov. of Logrone, on R. Ebro, Spam, cathedral; p. 9,120.

Calada, A.V. Fiance, great embyrkation point for travellers; opposite to and 21 in different Dover, p. 23,000; abo. C. Maine, U. 5. A. on ISt. Croix K., saw miles and ship yards; p. 8,400.

Calamianes, 135... Spamsh group in Malay archip., N. of Borneo; p. 77,500

Calarsas. C. on Borce, branch of R. Danube, where Caribaldi defeated Neapolitan forces in 1860, wine trade; p. 11,000.

trade; p 17,000
Calatayud, t Spunn, 55 iii. S.W. Saragossa, p. 12,000
Calatayud, t on coast of Saniar, Philippine Isls.; hemptrade, p. 30,000.

Calcutta, c. former cap. of Brit. India, on R. Hoogli, 80 m. from the set, sent of the supreme govt., vast trade; c of palaces; p 900,000, exclusive of suburbs. Caldas de Royes, c in Galicia, Spain, warm springs,

Caldas de Rôyes, £ m Galicia, Spain, warm springs, p 6,100.
Calder, f nr. Airdrie, Stoll, p 2,250.
Calder, t we sml. zrzers in Eng., one in W.R. of Yorksh., which falls into the Aire, the other, in Lanc., fons the Ribble
Calder, West, £ 36m S W. Edmburgh, Scotl., p. 2,400; also E. and Mid Calder, adj pars.
Caldera, xpt. Cluli, prov of Atacama, p 3,500, also sinh spt. in Hayti, son from Santo Demingo.
Calderbank, vvt. Landrish, Srotl, in Airdrie, p. 2,000.
Caldew X, (25m), Cumberlund, Eng., affit of K. Eden.
Caldewgate, £, sub. to Carlisle, Cumberland, Eng., p. 14,000 p. 14,000

p. 14.600
Caldwell, industl. t. New Jersey, U.S.A., p. 5,000; also summer resort on L. George, New York, U.S.A., p. 4,200. [nainland by Caldy Sound, lighthouse Caldy, 12t. of Pembroke coast, Wales, semarated from Caledon, div of Western Prov. of Cape Colony, watered by R. Caledon; also mkt. t. Ireland, on the Blackwater [Scotl., 62] in long; opened in 1822. Caledonian Canal, from Moray First to Lock Linnhe, Calella, t. Spain, 30 m. S.E. Barcelona, on coast, 2.600, [area 620 acres.

[area 620 acres.

3.690. [area doo acres. Calf of Man, sml. ist. to S.W. Isle of Man, Eng., Calgary, pnn to Alberta Territory, Canada, centre of rancling country, p. 8.290. [alboun's Mills, township of Abbeville co., S. Carolina, U.S.A., p. 3.500. [Calf, t. Cauca State, Colombia; fine bldgs., p. 36.500.]

Calicut, spt. and mitg. t. on Malabar coast of Madras,

ladia, p. 80,000.
California (198,360 sq. m., p. 2,377,540). Most important of Pacific States, U.S.A.; tettile, salubrious, and minerally wealthy; cap. Sacramento, chief pt. and

largest c. San Francisco (q v.).

Calliornia, Gulf of (700 m. long), inlet of Pacific Ocean,
W. coast of Mexico, between Lower California and

California, Lower, or Old (61,562 sq. m., p. 48,000), Mex. Terr. and Penn., between G. Of C. and Pacific, chiefly a sterile regno, but possessing some mineral wealth. Princ. 1.3: Santa Rosaha and Santiago. Calimere Pt., most S. Point of Coromandel Coast,

Calizzano, t. on R. Bormida, Italy, p. 3,240. Callahan, t. Florida, nr. Jacksonville, U.S.A.

Callahan, t. Florida, nr. Jacksonville, U.S.A., p. 4,650. Callan, t. m co. Kilkenny, Ireland, on the King's R.,

p. 1.500 fof par. 3.500. Callander, inkt. f. on R. Teith, Perth., Scotl., "the gate of the Highlands," tourist resort, p. 2.275; also a stn. on the C.P. Rly., in N.W. Terr., Canada, 224 in. W. of Ottawa.

Callao, A in Luna, the cap and most important port of Peru; p 48,500; also an isl, of Cochin China, with small port of same name.

Calle, La, spt. of Algeria, 300 m. E. of Algiers, p. 6,350. Callernish, vil. with Druidical circles, on W. coast

isl. of Lewis, Scotl.

Calmar, sp/ Sweden, on E. coast; match and tobacco

Cather, busy trade, p. 13,000 S.E. Chippenham, on K. Markin, p. (urban that.) 3-539.

Caloto, gold-field dist. J. in Colombia, nr. Popayan,

p. 4,215.

Calstock, t. in E. Cornwall, Eng., nr. Tavstock, Caltagrone, c. in prov. of Catana, Saviystock, Catlegrone, description of Catana, Saviys fine cathedral and many other public bidgs, important industries, p. 31,000.

Caltanisetta, fort. c. of Sicily, nr. Girgenti, cathedral,

school of hunes, etc., p. 45,000, cap. of prov. same n ime.

Calton Hill, the height to the N.E. of Edmburgh, Caluire et Cuire, a. in France, dep. Rhone, nr. Lyons; hardware factories and distilleries, p. 17,500 Calumet, copper min. 1., Mich., U.S.A., on pen, in

I. Superior, p. 10,000. [p. 1,480. Calumet Island, A. in Queliec, on the Ottawa R., Calumpit, A. in Bulacan, Luzon, Philippine Isls., on

Calumpit, A in Bulacina, Luzau, Philippine Isls., on fertile rice-growing plain, p. 15,000.

Calvados, dep. N.W. Frailer, area 2,168 sq. m. p. 410,000. Livestock and husbandry, can Caen Calvary, the hill outside Jerusalem, Mr. Calvary, usually pointed out as where Christ was crucified; also a vil it Wis., U. S.A.

Calverley, Par. in W. R. of Yorks, Eng., adjoininy Biadford, indust, p. 10 full 12,008.

Calvert, mfig / in Tex. is, U. S.A., p. 4,500.

Calvin, 49A on W. ext. Cersua, fort., p. 2,050; also a t. Italy, prov. Caseria, in r. Capual, pr. 2,140.

Calvinia, 4st. of N. W. Prov., C. Col., mainly improductive and mountanous; cap. Calvinia, p. 2,100.

Calzada, A. in Spain, nr. Cuidal Real, p. 5,100.

Cam or Granta, R., trib of Ouse, Cambridgesh, Eng., flows (40 in ) just Cambridge c.

Camajore, f. Cent. Italy, standing at foot of the Apuan Alps, in the prov. of Lucca, walled, old ch. and traumphil arch. p. 9,000.

Apian Alps, in the prov. of Lucca, walled, old chand triumph il arch, p. 9.500

Camana, t. and prov. of Peru, on Pacific coast, nr. Arequipt, p. 4.500.

Camatgo, t. in Spain, prov. S. intander, p. 3.500, also t. Mexico in State Tanaulipas, p. 2.940

Camargue, ist at mouth of R. Rhône, dep Bouches-du-Rhône France, area about 300 ol in.

Camatagus, t. Venezuela, State of Arigina, p. 6.000.

Cambay, trub State, India, Bombay Pres. [estuary, du., area 350 sq. in., p. 75,000.

Cambay Gulf, separates Kathawar from Bombay Camberwell, S.E. bor., London, co. Surrey, Eng.: p. 261,379.

Cambiano, vel. nr. Turin, N. Italy, p. 2,750. Cambo, wet. pl. in France, nr. Bavonne, p. 1,650. Cambodia, prov. of Indo-China; a I reach Protectorate, area 38,510 sq. m., p. 1,500,000 Contains the great Tonle-sap L., which covers in the rainy season 770 sq m., cap. Renom-penh, on R. Mekving.

Camborne, t. in mining dist. Cornwall, Eng., 11 m.

S.W. Truro, D. (of urban dist.) 15,829.

Cambrai or Cambray, c. un France, dep. Nord, on R. Scheldt, mftg. clucory, sugar, and cambries Peace of Cambray ("The Ladies' Peace") concluded here in 1529; present p. 27,000.

Cambria, t. Penn.; Cambria co., nr. Pittsburg, U.S.A., p. 2,400.

Cambridge, co. as S.E. Midland dist., Eng., mainly pastoral or fenny, p. 108,084; also c. Cap. of co. on R. Cam, seat of great University, p. 40,028; also c.

R. Cam, sort of great University, p. 40,028; also c. Mass., U.S.A., 3 m. from Boston, sear of Harvard Univ., p. 104,839; also c. Olito, U.S.A., p. 10,000; also t. Maryland, U.S.A., p. 6,000; also t. N.Z., 100 m. S.E. Auckland, p. 2,400.
Cambrills, 194. Spain, 8 m. S.W. of Tarragonia, p. 2,500.
Cambrills, 194. Spain, 8 m. S.W. of Tarragonia, p. 2,500. Cambuslang, colliery and industl. L., Lanarks , Scott., on R.Clyde, nr.Glasgow, p.(of par.), 24,870, (of t )r2,252. Cambusnethan, t Lanarksh., Scotl., on R. Nethan, incorp. with Wishaw, p. 29,000.

micorp. with Wishaw, p. 29,000.

Cambyna, svi. in Malsy Arch., 15 m. S of Celebes,
Camden, infig. and re add c of New Jersey, U.S.A.,
on Delware R., suburban and opposite to Philadelphia, p. 94,538; also t. Maine, U.S.A., on
Penobscot B., p. 4,650; siso t. S. Carolini, U.S.A.,
p. 3,800; also c. Ark, U.S.A., p. 2,40, also t.
N.S.W., 47 m. S.W. Sydney, p. 3,040.

Camden Town, industl and residentl. 232. of London,
Eng., to the N.E. of Regent's Park.

[Athaute.
Camel, R. in E. Cornwall Eng., flows (p. m.) into the
Camenz, I. nr. Dreschen, Saxoniv, on the black Elster

Camenz, t. nr. Dresden, Saxony, on the black Elster

R., p. 8,140.

R., p. 8,140.

Camerino, C. Cent Italy, prov. Maccrata, in Apennines; the anc. Camerino, annexed to Papal States in 16th century. Has "free" university, p. 12,000

Cameron, c. in Texas, on Lattle R, U.S. A., p. 5,240.

Cameron Country (Kameruns), West Africa, between Bight of Biaira and L. T Chad, German colony; also range of mtus. close to shore, 13,000 ft. at highest point.

Cammau, t., ast., and hay, prov. Balua, Brazil. Camoghe, min . Switz., canton Ticmo, nr. Lago di

Lugano, alt 8,800 ft.

Campagna di Roma, an old Italian prov. extending coastwise from the Pontine Marshes to Civita Vecchia and inland to the Salame Hills and A'ban Mins. Once

and maint of the Salmer and a not a noglected and malarious state; now being reclaimed.

Campanha, indust. C. Minas Geraes, Brazil, p. 7,000.

Campania, dist. S. Italy, to N. and S. of Naples, boxdering on the Mediterrancin, area 6.289 st. m., p. 3-250,000; mainly agr. and fruit growing, with many

3.250,000; mainly agr., and true growing, with many popular coast resorts.

Campaspe, t. Victoria, flowing (152 m.) into Murray R. from Dividing Range Mtns; also sin L. or R. bank.

Campbell, sin. 15t. in Pacific, 450 m. S. of N.Z.

Campbellitori, t on R. Trent, Ontano; p. 2,753
Campbellitorin, name of several towns and vils, in Scotl., Canada, the U. S. A., Bustralia, and N. Zealand.

Campbeltown, 15t. Kintyre, Argylish, Scotl., one of the Ayr Burghs, p. 7,005.

Campden, or Chipping Campden, t. E. Gloucestersh.,

Elife, b. S. 507.

Eng., p. 5.597.

Campeachy, state of Mexico, hounded by Tabasco.

Guatemala, Yucatan, and the G of Mexico, hot and
unhealthy, cap Campeche de Baranda, one of the

unhealthy, cap Campeche de Baranda, one of any finest cities on the G. of Mexico; p. 19,000.

Camperdown, w.l. on dunes N. Holland, off which was fought the lattle of C., 197; also t. Victoria; also W. sub Sydney, N.S.W.; also vl. in Natal, 47 m. [Cavile, p. 14,000.

Campi Benzio, J. in Tuscany, Italy, nr. Florence, fine Campinas, t. nr. Ploesti, Roumana, p. 3,744.
Campinas, t. Brazil, 50 m N. São Piulo, p. 12,000.
Campine, a dist. in provs. Limburg and Antwerp, Belgium.

Campli, & in prov. of Teramo, Italy, p 9,200, Campobasso, fort. & 50 m. N.E. Naples, Italy Samous

for cutiery and arms, p. 15,000: in prov. of same, name, amongst the southern Apennines.

Campobello, two t's in Sicily; Campobello di Licata, noted for sulphur mines, is in Girgeatt prov., p. 12,240; Campobello di Massara, a famous quarry town, is in Transpirore, p. 020.

Trapani prov., p. 9-29.
Campo Mayor, c. in Alemtejo, Portugal, p. 5-29.
campo Mayor, c. in Alemtejo, Portugal, p. 5-29.
campos, c. in prov. Rio Janeiro, Brazil, p. 60,000;
also t. Majorca, 21 m. S. E. of Parma, p. 5-00. Campsie Fells (highest pt. 1,894 ft.), range of hills in co. Stirlingsh., Scotl.; also par. of Campsie adjacent, p 6,100.

Campu Lung, t. in dist. Mucel, on R. Oltu, Roumania, pop. summer resurt, p. 14,000

Lop. Summer resort, p. 14,000.

Canada (3,654,000 st., m., p. nearly 8,000,000), Dominion founded un 1807, and now incl. all Bist, N. Amer. except Newfoundland and Labrador, Provs. are New Brunswick, Prince Ed. 1st., Nova Sco., Queb., Ont., Man., Birt. Col., Saskatchewan, Alberta, the North West Tenitories, and the Yaikon Territory; cap Ottawa, on Ottawa R. (all of which see under case be added). sep. headings).

Canadian R. (900 in.), trib. (flowing from New Mexico) of Arkansas R., U.S.A.
Canal Dover, industrial 70% of Tuscarawas co., Ohio,

U.S.A., on the Canandaigua; summer resort on L. of same name, New York, U.S.A., p. 6.150. Canary Islanda, or Canary Islanda, or Canary Islanda, or Canary Islanda, or on of N.W. coast Africa.

Peak of Tenerific (alt. 12,198 it.); cap. Las Palmas

(g.v.), Cana Verda, f. Brazil, nr. Tamandua, p. 3,400.
Cancale, wat. pt. on St. Michael's Bay, 8 m. E. of St. Malo, N. France, p. 7,000.
(Gulf of Siam. Cancao, or Kang-Kao, vpt. in French Cochiu China on Candabar.—(See Kanadabar.)
Candeish.—(See Khandeish.)

Candelania, t. on Parana R., Argentina; also spt. in Tenenife Isl., one of the Canary group. Candia, cap. of the isl. of Candia, or Crete, in the

Mediters., p. 23,000; also t. m Piedmont, Italy, nr. Novara, p. 5,250 Novara, p. 5,250 Canea, fit, fit, W. coast of Luzon, Philippine 155,700. Canea, fit, 9tt, N.W. Crete, prob. the anc. Dydonia; (Mr. p. in the isl.: p. 27,000. Canet, I m. Senegamba, W. Africa, nr. Sedo, p. 6,300.

Canell, I in Senegamba, w. Alinea, in Society, p. 6,700. Canelly, andustri, Z. in Italy, n. Asri; p. 6,700. Canelones, Z. in Uruguay, nr Montevideo, p. 3,850. Caneva, inkt. Z. in prov. Udnat, N. Italy, p. 5,500.

Cangas, industri. t. m l'ontevedra prov., Spain, p. 9.500. Cangas de Onis, t in Oviedo prov., once a royal residence, historic cave of King Pelayo; ruins, etc.,

p. 10,000.

Cangas de Tineo, t. in Oviedo prov., Spain, industrl., W. of Cangas de Oms, good trade, p. 23.500.
Canicatti, in fruit-growing dist of Girgenti, Sicily, p. 24,240.

p. 24,240.
Canigou, min., France, m the Pyrénées-Orientales, nr Perpignan; alt. 9,137 ft.
Caniles, f in Spain, ir. Granaida, p. 5,430.
Canillas, f in Spain, c2 in. E. N. E. of Malagra, p. 3,347.
Caniza, La, f in prov. Pontevedra, Spain, p. 8,750.
Canna, sm. 27 Hobrides, Scott, basaltic pillars.

Cannabore, or Kanabore, 30-in, bassatte platas.
Cannabore, or Kanabore, 30-in and allitary stn. in India, tivi. of Malabar, Madias Prev., p 50,000.
Cannes, 30-in France. dop. Alpes Marittanes, famous wanter resort, 20 in. S.W. Nice, p. 35,500. also t. of m. Canneto, 7. in Italy, on W. Ocho, p. 3,850. also t. of m.

S. of Bar, Italy, p. 3,240. (Queensland, Cannibal Creek, thi-mining locality in Palmer dist, of Canning, 3,46 and South, p. 3,46. (Cannock, min. 2, W. Stafford, Cannock Chese dist.,

Eng., p 28,988 [p. 1,500. Cannon River Falls, t. m Minnesota, nr. St. Paul's, Cannotatt or Canstatt, A. in Shinitesous, in: 74. 2 and 37. Cannotatt, or Canstatt, industri. A. in Wurtemberg, on R. Neckar, in: Stattgart, warm springs, p. 27,900. Canobio, snil. A. in Italy, on L. Magnore, p. 3,842. Canosa, A. in Bari, S. Italy; the Roman Canusium, an

unportant Apulian city, p. 25,000.

Canouan, p./. of Grenadines group, W. Indies.

Canso, spt. Nova Scotia, on Chedabucto Bay, p. 2,250.

Canto, 598. Nova Scotta, on Chedanouto Bay, p. 2,200. Canta, snal 4. in Feru, dept. Lima, p. 2,200. Cantabriams, mrs. N. Spain, from Pyrenees to Cape Finistere, highest pk. Pena Veja, akt. 8,76 ft. Cantal, mountainous dept. in Cent. France, S. Auvergne, p. (declining) 218,000; cap Auriliac. Cantales, f. in France, dep. Scinn-Inférieure, nr.

Canterbury, c. of co. Kent, Eng., on R. Stour; for m. Front Condon, famous cathedral founded 537 A.D. by St. Augustne; Thomas & Becket murdered here before altar in 1270; p. 24,638; also prov. dist. in So. Isl., N.Z., p. 145,000, cap. Christchurch (4.2.).

Canterbury Plains, rich grazing dist. in S. Isl., N.Z. Cantilano, Z. in Marches, nr. Urbino, Italy, P. 3,295. Cantillana, Z. on Guardalquivar R., in Spain, p. 5,250. Cantile, or Kantyre, penusula S. end of Anyylsh, Scotl length and Control of Cantillana. Scotl., length 40 m, greatest breadth 11 m.; S. pomt, the Mull of Cantire.

Canton, ch. c., treaty port, and dep. of S. China, cap. of Kwangtung prov., on n. N.W. Hong Kong, p. 2,000,000; very important trade centre, also name of several t.'s in the U.S.A., the two principal being

a infig. centre in Illinois (p. 7,100), and an industi-and agricht to Olino of 30,227 inhabits. [p. 5,800. Cantu, t in Como prov., Lombardy; silk and lace. Cappanori, t in Lucca prov., Tuscany, extensive silk industry, p. 44,000

Cape Breton, ist. E. Canada, the E. point of isl. bears the same name, area 3,100 sq. in . p. 98,000.

Cape Catastrophe, extrem. of Eyria Peninsula, S.

Australia.

Cape Clear, sst. with lighthouse, off S. coast of Ireland. Cape Coast Castle, t. Gold Coast, But. W. Africa, p. 11,750

p. 1.750.

CapeCod, S.E. point of Mass Bay, U.S.A., a peninsula with several t.'s, Provincetown being the extreme Cape Coloms, S. point of Athica, Greece. [point, Gape Coloms, in S. Africa, is named from Cape of Good Hope [277,077 sq. m., p. 2,50,000, of which about 60,000 are Europeans includes the whole of S. Africa, S. of Gei, S.W. Afri., Rhodesia, Orange River Colony, and Matal; cap, and chiq p. Cape Town, on Table Bay (9.7.).

Cape Coron, S. extremity of India.
Cape Coron, N. point of Corone.
Cape Delyado, Mozambuque, E. Afr.
Cape Diamond (with citadel), Quebec.
Cape Elizabeth, & in Cumberland co, Maine, U.S.A.,

P. 5.80c.
Cape Fear, point of the N Carolina coast of the
Atlantic, U.S.A., where estuary of Cape Fear R.

Attantic, U.S. A., where estuary of Cape Fear & discharges; sml. port also.

Cape Finisterre, Galicia, N.W. Spain.

Cape Hatteras, N. Carolina, U.S. A.

Cape Haytien, unportant trade port on N. coast, Hayti; bombarded by British 1855; estimated p. 30,000.

Cape Horn, S. point of America (on isl. of Fuegian

Arch.).

Cape Howe, S.E. extremity of Australia.

Cape La Hague, point of pen. Cotentin, France;

Fronch fleet defeated here 1092.

French Reet defeated here 1992.

Cape Leeuwin, S.W. extremity of Australia.

Cape May, wat. pl. N. J., U.S.A., residential, p. 1,240.

Cape of Good Hope, tamous headland, 1990 ft. high,
S. Afr., 30 m. S. Cape Town, disc. by Duz m 1480,
originally called "Cape of Storius"

Cape Prince of Wales, most W. point of America, in
Belling Sea.

Capernaum, in time of Christ an important pl. m. Palestine, on the W. shore of the L. of Galdre, identified by many archaeologists with the modern rulns of Tel Hum.

Cape, R., on N. boundary of Nicaragua. Cape Sable Isl., sub. dev. Nova Scotia. Cape St. Vincent, S.W. Portugul; Spanish fleet de-

feated by British, 1799.

Cape Severo, most N point of Asiatic Russia.

Cape Skagen, N. extremity of Denmark. [Gilvraltar.

Cape Spartel, Morocco coast; entrance to Strat Cape Spartel, Morocco Coast; entrance to Strat Cape Spartivento, 12. of Sardman, most S, point of

Cape Spartvento, 15t. of Santana, 1819.

Capetown, famous perf on Table R., S. of Africa, 20 m N. of C. of Good Hope; cap. of C. Colony. Conn. by rail direct with Rhodesia, Transvaal, Orange River Colony, and Natal, p. (with suburbs) 87,000.

Cape Trafalgar, S.W. coast Cadiz; Nelson's Samous 1819.

Cape I railagar, S. W. Coast Came; Netsons Samous in 1443.

Cape Verde, most W. pt. in Africa, Senegambia, disc. Cape Verde Islands, Portug group in Atlantic, 350 m. W. of C. Verde, 14 isls, and blets, area 1.475 sq. m., p. 147,000; agriculture, sugar and fruit-growing; chf. t. Porto Fraya.

Capitanata, former name of Italian prov. of Foggia.
Capiz, prov. 111. of Panny, Philippine group, flourishing industries, p. 190,000, cap. c. of above, p. 14,000.

Capo d'Istria, Austrian fort. pl. on isl., in G. of Trieste cathedral, p. 12,000.

Cappadocia, v.c. in prov. Aquila, Italy, p. 2,125. Cappoquin, c. on R. Blackwater, co. Waterford, Ire-

Cappagan, 1. in R. Blackwater, Ed. Wattermen, are-land, p. 1.740.

Cappaga, 18. in prev. Campobasso, Italy, p. 3.850.

Capraja, 18. in the Mediter., 16 in. N. Corsica, ancily, called Capraria.

Caprarola, 7. nr. Viterbo, Italy, and castle, p. 5540. Caprarola, 7. nr. Viterbo, Italy, and castle, p. 5540. Capran, 7. nr Italy, nr. Arezzo; Michael Angele's birthplace, p. 2,500.

Capri, romantic 134, and 4 nr. Naples, favourite tourist resort, residence of Augustus and Tiberius, the anc.

Capræ; pres. p. (t.) 3,700; (rl.) 6,500; fine wines. Cap Rouge, 211. on St. Lawrence, nr. Quebec, p. 1,120. Capryke, 1. in L. Flanders, Belgum, nr. Glesit, p.

Capryke, 4. in E. Flanders, Belgium, nr. Gheat, p. 3.785.
Cap Sante, 7 on R. St. Lawrence, Quebec, Can., Cap Sante, 7 in Portneuf co., Quebec, p. 1.380.
Captain's Island, 157. with L. B., N. Y., U. S. A.
Captain's Island, 157. with L. B., N. Y., U. S. A.
Captain, nr. fort. c. 20 in. N. of Naples, founded by the Etrucans, came under Roman rule, occupied by Hannibal, re-occupied by Komans, sacked by the Saracens; modern t. nn. N on site of anc. Casilinum, now famous for freewirks-making, p. 14,500
Caputh, 707. nr. Dunkeld, co. Perth, Scotl. Druidical remains. p. 366.

remains, p. 986.

Carabobo, prov of Venezuela, cap Valencia (q v.). Caracas, (ap. of Venezuela, 6 m inland from its port, La Guayra; busy c. electrically lighted, p. 75,000. Caracoles, t. in silver-numng dist. of Atacama, N.

Caraglio, t. in Piedmont, Italy, p. 6,840.

Caregino, f. in Predmont, Italy, p. 6,840.
Caranania.—(See Karamania.)
Carapequa, trade f. of Paraguay, in cotton and tobacce growing dist, p. 13,000. [Canada, p. 4,250.
Caraquette, f. and for of entry, New Brunswick, Caratal, f. Venezuela on Yuran R., Bolivar dist., Carate, f. nr., Milan, N., Italy, p. 3,840. [p. 6,000.
Caravacgno, f. in N., Italy, prov. Bergano, ar Milan;
Caravela, g.f. nr. Baln., Brazil, p. 5,420. [p. 8,500.
Carabonara, f. in John, Brazil, p. 5,420. [p. 8,500.
Carbonara, f. in John, Bart, Italy, p. 6,650.

Carbonara, t. in prov. Bari, Italy, p. 6,750.
Carbondale, t. in antifractic coal-mining region,
Lackawama co., Penn, U.S.A., p. 15 040
Carbonear, spt. on Conception Bay, Newfoundland,

p 2.840. Ip. 30,000 Carcar, t. in Cobu, Philippine Isls., sugar ind., Carcassone. t. in S. of France, cap dep Aude; historic citadel, sacked by the Black Prince in 1855.

Cardin, spr and co. opr., viant., S. Wales, docks, fron, timplate works, shiphulding; p. 182,380.
Cardigan, municip. opr. and co. L. of Cardigansh., S. Wales; p. 3,58. [Wales, p. on. extent, N. and S. Cardigan Bay, large bay on the W. of Cardigansh., S. Cardiganshire, martine co. of S. Wales, enclosed by co.'s Montgomeny, Radnor, Brecknock, Carmarthen, and Pembroke, and bounded on the W. by Cardigan Bay, area 688 sq. m.; mamly agricult, mines, and quartres; p. 80.874.

Bay, area 688 sq. m; manny quarters; p 59.877.
Cardinale, 2 m prov. Catanzaro, Italy, p 3.540.
Cardington, 207. m Bedlordsh, Eng., nr. Bedford t.
Cardito, 207. m Italy, nr. Naples, p. 5,100. pp. 1.415.
Cardona, fort 2 in Barcelma, Spain, on R. Cardenet; rock-salt hill near by p. 5,000.
Cardress, inclust. div. and 207. Dumbartonsh, Scotl., on R. Clyde; here King Robert Bruce died; pm. 11,226.

on R. Clyde; here King Robert Bruce died; p. 11,326.
Cardwell, £. Queensland, Anstr., die harbour; gold-Careggi, ynd in: Florence, Italy, die villas.
Caribbean Sea, part of Atlantic between S. and Cent.
America and the 181 of Cuba, Hayti and Porto kico.
Caribbee Isls. (or Lesser Antilles), E. portion of W.
India 181s.; divided into Windward and Leeward
group. [p. 67,000, also point N. shore L. Huroa.
Caribboo, 201d-field, Brit. Columbia, on Fraser R.,
Caribou, £. Maine, U.S.A., p. 5,000; also several other

sm. t.'s in U.S.A., and places in Nova Scotia and Carimata, group of side in the E. Indian Arch., W. of Borneo. Carimata, group of i.i.s. in the E. Indian Arch., W. of Borneo.

Carinthia, agr., prov. of the Austro-Hungarian Empire

Carisbrooke, vis. Isle of Wight, Eng.; King Charles

I. imprisoned in castle, p. 4,000. [Canada, p. 5,000.

Carleton Place, indust. s. in co. Lanark, Ontarno.

Carlingford, s. co. Louth, Ireland, on Carlingford

Bay, p. 660. [and Louth, Ireland.

Carlingford Lough, inlet of sea between co.'s Down

Carlinville, s. in Illinois, U.S.A., cap. of Macoupin co., p. 2,640.

p. 3,640. Carlisle, c. Cumberland, Eng., on R. Eden; important Carliste, c. Cumberland, Eng., on K. Eden; important railway centre, anc. castle, and cathedral, p. 46,43°; also f. Penn., U.S.A., college, etc., p. 10,000.
Carloforte, t. in Italy, on San Pietro Isl., Sardinia, tunny-fishery, p. 7,500.
Carlopoli, f. in Catanzaro, prov., S. Italy, p. 3,240.
Carlopoli, d. and Catanzaro, prov., S. Italy, p. 3,240.

Carlow, t. and co. (languishing agricult.), Ireland, p. (of t.) 7,000, (of co.) 36,151. [p. 9,420. Carlowitz, famous Hungarian wine t. on R. Danube,

Carlowitz, famous Hungarian wine 4. on R. Danube, Carlsbad, or Kalser Karlsbad, wat. 11. in Bohenna; resid, p. 15,000; visitors 50,000 annually.
Carlscrona or Beckinge, chf. naval station in Sweden, on the S. coast, p. 25,000.
Carlshamn, fort. 4. and p. S. Sweden, p. 8,500.
Carlshamn, c. 40 m. W. Stuttgart, cap, of Baden, headqrs. of German army corps; many impt.

headors. of German army corps; many imptindustries, p. 100,000.

Carlstad, on isl. nr. N. shore, L. Wener, Sweden, ironworks and match factories, p. 12,000. Carlstad prov. (many rich roon mines), has p. 290,000.

Carlstadt, fort. & Croatia, Aust., p. 6,500; also sin. t. in Lower Franconia, on R. Maine, Baviria.

Carlton, industri. & 3 m. E. Nottingham, Eng. p. 15,581; also vii. in Dufferin co., Manitoba, Can.

Carluke, min. & in fruit-growing dist. of co. Lanark, Scotl., rp. m. from Glasgow, p. (of par.) 9,100.

Carlyle, & in Chinton co., Illinois, U.S.A., p. 3,450.

Carmarthen, mftg. & on R. Mella, N. Italy, p. 14,000.

Carmarthen, mftg. & area of co. 8/8 sq. m., p. 160,430. Mainly pastoral land; C. B. is 18 m. across.

Carmaux, & m. colhery dist. Tarn dep., France, glass mftg., p. 7,11,000. mftg., p. 11,000. Carmel, Mount (alt. 1,887 ft.), running down to prom.

Carmel, Mount (alt. 1.89 ft.), running down to prom. on coast of Palestine, nr. Acre.
On coast of Palestine, nr. Acre.
On Carmen, E. Bollvar State, Columbia, p. 7,500; also spt. on Campeche Bay, Mexico, p. 7,850; also t. on R. Negro, Argentina, p. 2,800.
Carmil, I. in Illinos, U.S.A., White co., p. 2,940.
Carmona, of the Val d'Ombronne, Italy, nr. Florence, p. 12,000; straw-plant trade.
Carmona, old £. Andalusia, Spain 18 m. N.E. of Seville, p. 18,000; Roman necropolis, many int. archaeolog, remains.
Carmac, £. in dep. Morbihan, France, nr. Lorient, reliques of stone age, p. 3,000 (communal).
Carnaryon, anc. £. on Menai Strait, cap, of co. of C., p. 9,109. Also name of b. between co. of C. and Anglesey; also township at nith. of Gascoigne R., W. Australia,

W. Australia,

W. Australia.

Carnarvonshire, mtns. marit. co., N. Wales, area 564 sq. m., p. 125.040. Slate and stone quarries, lead mines ? highest peak Snowdon (3.57 ft.); impt. towns, Carnarvon, Baugor, Couway, and Llandudno (4.70.).

[coast, Madras, India (4.67. extending 550 m. on Coromandel Carnaeje, iron-muelting 7. nr. Pittsburg, Penn., U.S.A., p. 7,500.

Carnilarea, quarry-dist. t. in Hainault prov., Belgium, Carnola, crown prov. Austria, Cisleithian div; area 3.895 sq. m., mtns. with quicksilver, coal, iron, and manganese mines, p. 510,000 (2.01. Lalbach.

Carnoustie, summer resort, co. Forfar., Scotl., on Germ. Oc., p. 5.378.

Carnwath, in ironworks dist. of co. Lanark, Scotl., on Germ. Oc., industri. t. Spain, prov. Jaen, p. 8,000.

Carolina, industri. t. Spain, prov. Jaen, p. 8,000.

Carolina, industri. t. Spain, prov. Jaen, p. 8,000.

Carolina, larea 52,230 sq. m.), bord. N. by Vignia, S. by Georgia and S. Carolina, E. by the Atlantic,

and W. by the Alleghany Mtns., and Tennessee, cap. Raleigh, ch. port Wiluington, p. 2,206,289, S. Carolina (area 30,370 sq. m.), bord. N. by N. Car, S.W. by Georgia, and S.E. by the sea; cap. Columbia, chf. port Charleston, p. 1,575,400. Pro-

Columbia, chf. port Charlesson, p. 1,575,400. Products cotton, rice, etc.
Caroline Isls., German Arch. in W. Pacific, 500 in number, lying between the Plulippines and the Marshall Group, under the govt. of German New Guinea.
Caroline Isl., a sin. Brit. atoll in Polynesia, between the Penthyin and Marquessa groups.
Caroul, K. (400 in), trib. Ornoco, S. America.
Carouge, Z. Switz., canton of Geneva, on R. Arve, and subn. to Geneva, c., p. 7,400.

[D. 6,000.
Carovigno, d. in Leece prov., Italy, pr. Brindiss, Carpaneto, f. in Piacenza prov., Italy, p. 6,100.
Carpathian Mins., a range which: separates Hungary from Moravis, delicia, and the Bukowina, and Transylvania from Roumana: luchest point. Mc.

from Moravia, Calicia, and the Bukowna, and Transylvania from Roumana; hughest point, Mt. Butschetle, Transylvania, 9,528 ft.

Carpathian Sea, the anc. name for a sm. part of the Agean Sea N. of the Carpathians.

Carpentaria, Gulf of large milet 611 N. coast of Australia, between Wessel 181, and Cape York.

Carpentras, c. dep. Vaucluse, France, on R. Auzon, the anc. Carpentoracte; many antiquities, p. 10,500.

Carpi, industri. L. in Modena, Cent. Italy, interesting cathedral, D. 20,000.

cathedral, p. 20,000.
Carpino, t. in Foggia, S. Italy, on Mt. Gargona, p. 6,540.
Carranca, t in prov. Mmas Geraes, Brazil, pastoral

Carranca, \$\ell\$ in rov. Mmas Geraes, Brazil, pastoral dist., p. 4,250.

Carrantuolill, or Carrantuel, mtn. co. Kerry. nr. Killamey, loftest in Magilicuidy Reeks and all Ireland, alt. 3,414 ft. [for its white marble, p. 42,500.

Carrara, \$\ell\$. Cent. Italy, prov. of Massae-Carrara, famed Carrick, afs. of co. Ayr. Scott., S. of R. Down.

Carrickfergus, \$\frac{\psi}{2}\$. on Belfast Lough, otherwise Carrickfergus Bay, Ireland, p. 4,300. [lar.] \$\frac{\psi}{2}\$. on Carrickmacross, mkt. \$\ell\$. co. Monaghan, Ireland, p. (of Carrick-on-Suir, mkt. \$\ell\$. co. O. Ipperary, Irel., p. 6,005.

Carrickon-Suir, mkt. \$\ell\$. co. Tupperary, Irel., p. 6,005.

Carrickon-Suir, mkt. \$\ell\$. co. Cipperary, Irel., p. 6,005.

Carrickon-Suir, mkt. \$\ell\$. co. Cipperary, Irel., p. 6,005.

Carrolton, \$\ell\$ in Missour, U.S. A., p. 2,100.

Carrolton, \$\ell\$ in Missour, U.S. A., p. 2,100.

Carrolton, \$\ell\$ (so m) (co. Stringsh., Scotl., trib. of Forth; also vil. with famous ironworks, ur. Falkirk Scotl., p. (of vil.) 1,500.

p. (of vil.) 1,900.

p. [of vi.] 1,500.
Carronbrook, f. In Perth co., Ontario, p. 1,500.
Carronbrook, f. In Perth co., Ontario, p. 1,500.
Carrouges, f. dep. Orne, France, nr. Alençon, p. 2,700.
Carrid, f. N. Italy, nr. Mondors, Piedmont, 4,430.
Carse, term applied to three fertile districts in Scotl—Falkirk, Gowine and Shring.
Carslain, vil. and residenth. dist. in Surrey, Eng., nr. Croydon, p. 11,635.
Carsoll, f. in prov. Aquila, Italy, p. 6,120.
Carson City, State cap. of Nevada, U.S.A., silvermining dist., p. 2,250.
Carstairs, vil. and ry. finuc. co. Lanark, Scotl, p. 1800.
Cart, R. (formed by Black and White Cart R.: 5) trib. of Ciyde, co. Renfrew, Scotl.
Cartagena, ps. (cap. of dep. Bolivar) on N. coast of

Cartagena, 92. (cap. of dep. Bolivar) on N. coast of Colombia, S. America, p. 124,000, also strong spt. and naval arsenal in Spain, prov. of Murcia, fine wharves and harbour, celebrated cathedial; the Roman

and harbour, celebrated cathedial; the Roman Carthago, Now; present p. 100,000.

Cartago, L. in Costa Rica, in. San José, frequently disturbed by earthquakes, p. 5,000; also t. in Republic of Columbia, dep. Cauca, p. 14,000.

Cartaxo, L. nr. R. Tagus, dist. Santarem, Portugal, com and wine, p. 7,000.

Cartaya, 19t. in Audalusia, Spain, nr. Huelva, p. 5,500.

Cartersville, f. of Barton co., Georgia, U. S.A., p. 3,540.

Carterton, L. in north isl. of New Zealand, p. (dist.)

Carterton, 6. In norm as a cartiage, 2,500.

Carthage, c. N.E. Tunis, with ruins of anc. Carthage, destroyed by the Romans 146 B.C.; also several towns of the same name in U.S.A., the most impt. being in mining dist. of Jasper co., Missouri, p. 10,000.

Cartmel, nikt. and industri. A in N. Lancashire, Eng., in. Ulverston, p. 6,64.

Cartwright, stn. on C. P. Ry. Pembina section, 145 in. Carthago, 5tf. in Venezuela, State of Bernudez, in. Cunnana, p. 13,000.

Cumana, p. 13,000. [France, p. 8,500. Carvin-Epinoy, mftg. 1. dep. Pas-de-Calais, nr. Arras,

Casablanca, f. in Chili, prov. Valparaiso, p. 2,000; also spt. in Morocco, otherwise called Dar el Balda.
Casale Monferrato, old industri. f. on R. Po, prov.
Alessandia, N. Italy, Lombard cathedral, 7 31,500.
Casal Maggiore, f. on R. Po, prov. Cremona, Italy, p. 16,000.
[p. 4,295; also t. n. Naples, p. 4,940.
Casal Pusterlengo, f. in Milan prov. Italy, p. 6,700.
Casallenterlengo, f. in Milan prov. Italy, p. 6,700.
Casallengo, p. 3,500.
Casallengo, p. 4,500.

Cascade R., tin-mining dist. of Tasmania, nr. Laun-Cascina, t in Pisa prov., on R. Arno, Italy; silk and

Cascina, I. in risa prov., on R. Armo, Itary; sins and other industries, p. 25,000.

Caserta, I. 16 m. N. of Naples, cap, of C. prov., Italy; magnifect. royal palace; p. (of t.) 33,000; of prov., 78,000; wine-growing dist.

Cashel, Z. in co. Tipperary, 100 m. S.W. of Dublin, Ireland; cathedral (ruined) on Rock of Cashel, Cas

Preiand; Carnedral (rules) on Rock of Cashen, p. 3,000.

Cashgar, R. in E. Turkestan (500 m.), trib of the Cashmere or Kashmir (80,000 Sq. m., p. 3 millions), trib. native State in N. India. Traversed by ranges of the Hunalayas; in vale of C., rich agnc. dists., also noted for textile products; cap. Srinagar. Casio B. Casola, 4. in prov. Belogna, Italy, p. 3,440.

Casiquiare, R., Venezuola, joins Orinoco to the Rio Negro, a trib. of the Amazon

Casoli, 4. in prov. Chieti, on min side, p. 6,800.

Casoli, i, in prov. Chieti, on min side, p. 6,800.
Casoria, industri. A. nr. Naples, Italy, p. 11,720.
Caspe, A. on R. Guadalupe, 80 m. E. Saragossa,
Spain, p. 9,580.
Caspian Sea, great salt lake, 700 m. long, 270 m. wide,
area nearly 170,000 sq m., between Asia and Europe;
largest inland sea in the world. Surface & ft. below
ucan level. S. shore Persian, rest Russian.
Receives Rivers Volga, Ural, Kuma, Atrek, etc.;
naval station of Russian Caspian flotilla; Ashurada,
id nr. Persian shore. isl. nr. Persian shore. Thouse.

Casquets, dang. rocks, 7. m. W. of Alderney; light-Cassano, t. in prov. Milan, Lombardy; Prince Eugene defeated by the French, 1705. Moreau by Suvaroff,

1799; p. 8,300 Cassel, c, on R. Fulda, cap. of Hosse-Nassau, Germany; military depot, museums, library, many impt. mdustries, p. 107,000; also t. in dep. Nord, France, D. 4.100.

p. 4.700.
Cassilis, & N.S.W., co. Bhgh, p. (of dist) 3,700.
Cassino, & in Campania, Italy (formerly called San Gernano), the anc. Cashum; here Mark Antony stayed at M. Terentius Varro's villa, p. 73,500.
Castel, v. on R. Rhine, nr. Wieshaden, Pruss., p. 6,830
Castelbuono, & Sicily, nr. Palermo, mml. springs

p. 10,500. [p. 2,740 Castel del Monte, /. nr. Aquila, Italy, mediæval castle, Castelfidardo, t. nr. Loreto, prov. Ancona, Italy; battle between Papal troops and Italians, 1860, p. 6,750.

battle between Papal troops and Italians, 1860, p. 6, 750. Castellorentino, f. Tuccany, nr. Florence, p. 9,000. Castel Forte, f. in prov. Castelt, Italy, p. 3,500. Castelfrance, tiss. in Italy; (a) in prov. Avelino, nr. Benevento, p. 2,00; (b) in prov. Bologna, p. 6,800; (c) in prov. Treviso, on rly. to Verona, fine ch. and paintings, silk industry, p. 11,850. Castelgandolfo, 2st. on L. Albano, nr. Rome, summer resort of the Pope, p. 2,100. Castellamare, 2st. Ph. aud dockyard t. on Bay of Naples, p. 35,000; also spt. on G. of C., coast of Schlum, 1, 2000.

Naples, p. 35,000; also spt. on U. of U., Coust of Sicily, p. 14,000.

Castellana, f. prov. Bari, S. Italy, p. 17,000.

Castellana, f. prov. Bari, S. Italy, p. 17,000.

Castellon Branco, r. of Portugal, cap of dist. same name, p. (of C. 16,800; [of dist.] 205,500

Castellon de la Plana, 2070. Spain, on Mediterranean, part of anc. Valencia, mainly mins.; area 2,465 q. m., p. 30,000, cap. Castellon, p. 37,000 (port El Gar, p. 30,000, cap. Castellandary) f. in dep. Aude, France, on canal Languedoc; lurined by Black Prince, 1355, p. 20,500.

Castel San Pletto, f. in prov. Bologna, Italy; saline surfuca, p. 13,800. springs, p. 13,800. [p. 25,000. Castelvetrano, industri. 1. Sicily, prov. Trapani, Casterton, 1. on R. Glenelg, Victoria, p. (of dist.) 4,850.

Castiglione, industri. £. Sicily, nr. Catania, p. ze,000, Castiglione della Stiviere, £ in prov. Mantus, Italy ; here Bonaparte defeated the Austrians, 1706, p. §,500. Castiglione Florentino, £ nr. Arezzo, Italy; seri-

culture, p. 13,500.

Castile, cent. part (formerly a kingdom) of Spain;
now div. into Old and New Castile.

Castilejos, Northern Morocco; Moors defeated here by General Prim, 1860.

Castlebar, t. Ireland, cap. of co. Mayo, p, 4,000;

"Race of Castlebar" battle fought here in Rebellion

of 1798. [p. 1,820... Castleblayney, t. nr. Dundalk, co. Monaghan, Ireland, Castle Cary, mkt. t. Somerset, Eng., nr. Yeovil,

p. 2,135. Castlecomer, mkt. t. co. Kilkenny. Ireland, p. 1,200.

Castilecomer, mkt. t. co. Kilkenny. Ireland, p. 1,200.
Castil Donington, t. Leicestershire, Eng., nr. Ashbyde-la-Zouch, p. (of dist.) 6,478.
Castile Douglas, t. Kirkcudbright, Scotl., catile fairs, Castileford, t. W.R. Yorks, 10 m. S.E. of Leeds in glass-bottle and coiliery dist., p. 23,101.
Castilemaine, gold-mining t. 80 m. N. Melbourne, Vuctoria, p. 8,000.
Castile Peak, mts. Nevada, California (alt. 13,000 ft.) also mtn. in Coloradio, U.S.A. (alt. 14,115 ft.).
Castilereagh, t. in Rovcommon, Ireland, on R. Suck, p. 1,200; also t. in N.S.W., on R. Nepean, 40 m. from Sydney,
Castileton, t. Peak dist., Eng., site of Peveril Castile

Sydney.

Castleton, P. Peak dist., Eng., site of Peveril Castle
p. 550; also vil. Roxburgh; p. (par) 2,300; also t.

Staten 18; N.Y., U.S.A., p. 14,00; also t. Vermont,
U.S.A., p. 2,850; also industri, suburb of Rochdale,
Lancs, Eng., p. 7,200.

Castletown, A. with castle (Castle Rushen), and
garrison, 18e of Man; former cap, of isl, p. 4,200.

Castletown Bearhaven, 524. co. Cork, Ireland, on
Rantry Ray p. 1,200.

Castletown Day, p. 1,200.

Castres, f. Tarn den., France, on R. Agoût, former
Huguenot stronghold; cathdrl., textile mitg., p.
[1,750.

28,500.

(1.750.

Castri, t. Greece, on Mt. Parnassus, nr. Salona, p.
Castries, 59t. St. Lucia Isl., Brit. W. Indies, p. 7,500.

Castro, t. and dep. Chile, Chilof Isl., p. (t.) 1,400;
(dep.) 35,000

Castro de Rio, industri. t. Andalusia, on R. Giandajos,
Castrogiovanni, old t., fort, Sicily, mineral springs,
sulphur mines; p. 26,000.

Castropol, 59t. N. Spain, nr. Oviedo, p. 8,330. [10,000.

Castro Reale, c. Sicily, nr. Milazzo, p. (commune)

Castro Urdiales, 59t. N. Spain, nr mining dist. of
Santander 170v. p. 14,500.

Castro Urdiales, 59t. N. Spain, in mining dist. or Santander, 190v. p. 14,500.
Castrovillari, t. 607. Calabria, S. Italy, old Norman castle; olive oil ind.; p. 10,000.
Castuera, t. 68 m. from Badajee, Spain, p. 7,140.
Cat Isl. (or Guanahani), Bahamas, W. Indies, area 340 sq. m. p. 2,500.
[John's; p. 1,510.
Catalinia, 59t. Newfoundland 60 m. N. W. of St. Catalonia, old \$prov. N.E. Spain, between Mediter ranean and Pyrenees, now divided; rich in minerals, but mountainous, n. about 2,000,vcco.

ranean and Pyrenees, now noticed; rich in mineral, but mountainous, p. about 200x-expentine, farming and mining; p. [of prev.] 100,000; [of t.] 8,000
Catanduanes, 156, [40 m. long], nr. Luzon, one of the Philippine Isls.
Catania, c. and prov. on E. coast Sicily. City several times rebuilt in cons. of earthquakes; modern and thriving; at ft. of Mt. Etna, p. 150,000; p. (of prov.)

715,000. Catanzaro, c. S. Italy, in prov. of same name, nr. the

Catasauqua, £ on Lengh R., Penn., U S A, p. 4,240.

Catasauqua, £ on Lengh R., Penn., U S A, p. 4,240.

Catastrophe, Cape, S. extremity of Eyre, Pen., S. Australia.

Australia.

Catawiz. (300 m.), R. of N. Carolina, U.S.A., rising in Blue Ridge Range.

Cateau, Le (or Cateau-Cambresis), mftg. t. Nord dep., France, p. (commune) 12,500. [10,84t, Caterham, will, and residential did., Surrey, Eng., p. Cathay, old same for China and Eastn. Tartary. Cathcart, t. in ico. Wellesley, N.S.W.; also large andustri. par, nr. Glasgow, Scoti., p. 13,500.

Catmandoo, or Khatmandu, cap. of Nepaul, India, p. (abt is no.)

(abt.) 50,000. Catoche. Cape, N.E. pt. of Yucatan, Mex.

Catorce, large industri. upland t. in Central Mexico. 125 m. of San Luis, Potosi, p. 25,000.

rsg m. of San Luis, Potos, p. 25,000.
Catrine, cotton mfg. d. in oo. Ayr. Scott., p. 3,000.
Catskill, t. on R. Hudson, N.Y., U.S.A., p. 5,500.
Catskill Mins., range in N.Y. State, U.S.A., W. of
the Hudson R., part of the Appalachian system;
highest pt. Sildo Mt., at, 4,505 ft. Hoommune/6,000.
Cattaro, fort. spt. on Dalmatian coast. Asstria, p.
Cattegat, or Kattegat, chan. between Jutiand and
Sweden, an arm of N. Sen.
Cattolica. 4 in Scilv, porw. Girgenti, p. 7,840.

Sweden, an arm of N. Sea. Cattolica, f. in Skcily, prov. Girgenti, p. 7,242. Cance, R. of Colombia (600 m.), trib. of Magdalena. Cance, dept. of Colombia Republic, area (including isls, along Pacific and Atlantic coasts) 27,453 sq. m.,

p. 750,000; cap. Popayan.

Caucasia, Russ. terr., area 180,843 sq. m., p. (abt.)
10,000,000; between the Black Sea and the Cafpian;
div. by Caucasus Mtns. into Northern or Cir-Caucasia,

and Trans-Caucasia; cap. Tiflis (q.v.).

and i reter-dense; clip. in its 97.95.

Gaucasus, lofty mth. range between Caspian and Black S.; natural boundary between Europe and Asia, highest sammits Mt. Elbeuz (18,50 ft.) and Kasbek (16,56 ft.). Length of System alt. 80 m. greatest width 20 m. Many lofty passes and improved the state of the state

programs, with and in many long passes and inposing galeiers.

Candan, t. in dep. Morbihan, France, shipbidge,
Candenee, anc. t. Seine-Inf. dep., France, on the
Seine, p. 2,500; also a neighbouring township of
the same name, suburban to Elbeuf, on rly, to
Louviers, textile factories, p. 7,000.

Caudete, t. in Spain, Albacete prov., p. 5,500; also t.

Teruel prov. of Spain, p. 6.390.

Caudiff, t. Nord dep., France, lace and tulle industry,
Caulifield, t. nr. Melbourne, Victoria, fine racecourse,
p. 10,700.

D. 10,590.

p. 10,500.
Cauquenes, t in Chile, cap ot Maule prov., p. 7,430.
Caussade, t. in dep. Tarn-et-Garonne, once a
Huguenot stronghold, p. 4,500.
Cauterets, w.z. dop Hautes-Pyrénées, France, mineral
springs, p. 2,460.
Cautin, prov. of S. Chili, area 3,200 Sq. m., p. 82,000;
Cautery, K. in S. India (475 m.), flows into B. of Bengal.
Cava, one of the Orkney Isls., i m. long by t m. wide.
Cava, or La Cava, t in Salerno, Italy; popular
summer resort, p. 76,570.
Cavan, inland ca. Ireland, prov. of Ulster, area,

Cavan, inland ca., Ireland, prov. of Ulster, area, 746 sq. m., p. 91,071; also its co. t., ya m. S.W. Belfast, p. 3,540; also t. Ontario, 62 m. N.E. Torento,

Belfast, p. 3,540; also t. Ontario, oz m. rt. 2. I ovenico, p. (dist.),4290.

Cavarzere, industri. f. in prov. of Venice, on R. Adige, N. Italy, p. (commune) 18,500.

Cave City, f. in Kentucky, nr. the Mammoth Cave, Barren co., U.S.A., p. 3,200.

Cave of the Winds, recess behind the Falls of Caversham, f. Oxfordsh, Eng., on R. Thames, p. 9,898.

[Philippines, p. 5,540.

Cavite, ftd. 59f. on Isle of Luzon, one of the Caver, or Cavour, f. Piedmont, Italy, nr. Pinerolo, p. 2,566.

p. 7.360.
Cawdor, vil. co. Nam. Scotl, nr. Cawdor Castle, Cawdor, vil. co. Nam. Scotl, nr. Cawdor Castle, Cawgore, dist. in Allahabad div. N.W. Prov., India, between Ganges and Junna, area 2,379 sq. m., p. 1,295,000; cap. c. on R. Ganges, same name, textile and other factories, p. 200,000.
Cawood, vil. nr. Solby on R. Ouse, W.R. Yorks,

Caxamarca. (See Cajamarca.) falt. 19,535 ft. Cayambe, mtn., Andes, Ecuador, on the Equator, Cayenne, spt., cap. of French Guiana, South America,

p. 11,000.

Caymans, on Alligator Isl.; 3 sm. isls. Brit. West Indies, in Caribbean Sea, mr. Jarnauca.

Cazembe's Country, between L. Moes's and L. Bangweedo; Brit. Cent. Africa, visited by Livingstone in 1898.

Livingstone in 1888. [D. 3,000. Cazères, 4. on R. Garonne, Haute-Garonne, France, Cears, prov. on Atlantic coast of N. Brazil, cap. Fortuleza (q.w.), area, 40,000 q. m., p. 934,000. Cebu, one of the Philippine lasts, 183 st. long; here Magellan landed in 1921, p. 60,000; cap. Cebu, on the R. coast, p. 24,000. Cedar Creek, Virginia, U.S.A., branch of R. Shenandoah, Sheridan's victory over the Confederates, 1864.

Cedar Falls, c. Iowa, in U.S.A., on Cedar R., p. 5.500. Cedar Keys, spt. m Florida, on Gulf of Mexico,

sponge trade, p. a.840.

Cedar Mountain, a hill in Culpeper co., Virginia, U.S.A. Here Stonewall Jackson defeated Banks in

1862.

Cedar Rapids, c. of Linn co. Jowa, U.S.A., ry. centre, p. 32.811.

[Minnesota, and Jowa, U.S.A. Cedar (or Red Cedar) R. (200 m.) 1rrb. of R. Jowa. Cefalu, 362. prov. of Palermo, N. Sielly: sardine fishing, p. 25,000.

[Didg stone, p. 14,000.

[Celaya, frow. Leece, S. Italy, n. Brindits; Joive oil, Celano, f. prov. Aquila, S. Italy, p. 9,000.

[So,000.

Celaya, fifty f. 350 m. N.W. of capital, Mexico, p. Celebes (77,865 sq. m., p. 1,800,000), one of the four great Sunda Isls. in the Dutch E. Indies; chieft t.'s Medado and Macassar (g.v.).

Cellardyke, fishery f. in oo. Fife, Scotland, p. 2,700.

Cellardyke, fishery t. in co. Fife, Scotland, p. 2,700.
Celle, mfig. t. on R. Aller, prov. Hanover, Prussia, former cap. of the Dukes of Brumswick-Luneberg, p. 20,500. Cenis, Mont, min and pare, 6,881 ft. high, in Graian

Alps, between France and Italy. Tunnel made 1837-1870. [Iv. 20,0070. Cento, industri. £, in Ferrara prov., Italy, nr. Modena, Central Africa, Brit. (area 190,000 sq. m.), the Brit., Protectorate on the Shire and about Lake Nyassa,

native p. 2,000,000.

Central America, the narrow portion of the New World between Mexico and S. America, incl. part of Mexico (Yucatan), the 5 Republics (Guatemala, Houduras, Salvador, Nicaragua, and Costa Rica), Brit Honduras, and part of Columbia, isth. and dejo of Panama.

Contral Asia, usually applied to regions between 37 and 40° N lat. and 55° and 85° E. long. Russian C.A. is the dist. between China and Afghanistan and

the Caspian.

Central City, cap. Gilpin co., Colorado, U.S.A., p. 4,000; nho sm r's m Neb. and Ky., U.S.A.

Central Fails, t in Rhode Isl. m. New Providence,

Central Fails, t m Kinne Fig. m. Area Fronces.

U.S.A., p. 22,754.

Centralia, c. of Marion co. Illinois, U.S.A., colliery dist. p., 7,000; also t. Pennsylvania, U.S.A.

Central India (77,808 sq. m., p. 10,500,000), group of o Fendatory Status; between the Br. Cent. Provs. and the N.W.P. Gov. Gen. Sagent resides at Indore.

Central Provinces and Berar, new prop. Brit. India, 100,000,000 pp. 200,000 pp. 200,000

area of Central Prov., 82,635 sq. m., p. about zz, 000,000;

Berar, area, 17,710 Sq. m.; p over 3,000,000. Centreville, L m Appanoose co., Iowa, U.S.A; coal-minung region, p. 5,500; also other t.'s in U.S.A., Canada, and Nova Scotia. Centuripe, t. in Catania prov., Sicily, the anc. Cen

torips, many antiquities, p. 10,000.

Cess, Grock isl. in Ægran Sea, S.E. of Attica.

Cephalonia, mtns. 15L., one of the Ionian Isls., Greece,

area 375 g.m., p. 83,500; cap. Argostola. Ceram, or Sirang, st./ in Maky Arch., Dutch E. Indies, N. of Amboyna, area 0,6x2 sq. m., p. (esti-mated) 100,000 (4,000 perished m earthquake of 1899). Tobacco grown.

Ceres, health resort on Hex R., Cape Colony, 75 m. N.E. of Capetown.

Cerignola, industri. t. Foggia prov., Italy, Spanish victory over French 1503, p. 26,500.
Cerigo, most S. Ioman Isla, the ancient Cytheria;

area 107 sq. m., p. 15,500. [5 m. long. Cerigotto, sm. Greek 151. between Cerigo and Crete, Cerra del Cobre, min. of the Andes, in Chill, alt.

18,320 feet.

r8, 200 foet.

Cerro de Pasco, or Pasco, £. Peru, dep. Junin, with famous silver and copper nimes, p. 15,000.

Cerro Gordo, min. pass between Vera Crus and Jujapa Mexico; also minng camp in Inyo co., California, U.S.A.

Cerve Gordo de Potasi, men. in Bolivia.

Cervin. (See Matteritorn.)

Cescana, old indust. £. prov. Forli, nr. Ravenna, Italy; cathedral, antiquities, sulphur mines; p. 40,000.

Cetto, pp. dep. Hérault, France; exports, brandy and wine; first-class fortress; p. 33,500 (commune, 33,400).

Cettinje, cap. of Montenegro, old palaces and monastery, p. 4,000.

Centa, Spanish 194. on coast of Morocco, opposite to and 26 m. from Gibraltar; the anc. Abyla; p. 14,300. Ceva, c. Piedmont, on R. Tanaro, Italy, p. 5,500. Cevames, 1964s. France, separating basins of Rhône, Leire, and Tara; highest pt. Mt. Mezenc, alt. 5,704 fr.; also name of former French prov. in Languedoc dist.

Ceylon, Brit. isl. in Indian ocean, S.E. of India; largest area (25,481 sq. ul.) of all Brit. Crown Colonies; largest area (25,45) 54. in Join Drin. Court Casa-pp. 4,709,470; princ. products, rice, tea, coceanits, fruits and spices. Ch. tns. are Colombo (com-nercial and polit. csp.) and Kaudy (old native csp.), interior mountamous; highest peak, Pedrotallagalla,

8,280 ft. [wine country, p. 3,000. Chablis, t. dep. Yonne, France, nr. Auxerre, famous Chaoacomani, mtn. of the Andes range, Bolivia, alt.

20,235 ft.

Chaco, terr. in N. of Argentine Republic; farming,

Chaco, terr. in N. of Argentine Kepabuc; narming, and praine land; area 53,74; sq. m., p. 12,500.
Chad, L., large sheet of water of N. Cent. Africa; area 50,000 sq. m. when in flood; many isls.; lies between the wooded region of the Soudan and the steppes leading to the Sahara desert.
Chadderton, cotton mftg. L. Lancs, nr. Manchester, Eng., p. 28,305.
Chaffres, Spanist stn. in group of isls. same name, N. coast of Morocco. nr. the Algerian irontier, p.

coast of Morocco, nr. the Algerian irontier, p. (including troops), 1,000.

Chagos Arch., group of isis. in Indian Ocean, administered from Mauritius, fine harbour in Diego

Chagres, spt. Colombia, S. America, on N. side of Isthmus of Panama, p. 1,200, also R. along line of the Panama Canal,

Chalcedon, or Kadikói, f. on Bosphorus, S. of Scutari; Turkish p. 33,000.
Chaleurs Bay, an mlet between N. Brunswick and Gaspé Peu., Ont., Canada.

Chalgrove, vil., iEng., 13 m. S.F. Oxford; battle, in which Hampden was mortally wounded, 1643,

Prince Rupert victorious. Chalkis, or Chaicis, & on the Euripus, 34 m. N. of Athens, Greece, the modern Negropout, p. (com-

Arteris, Greece, line modern Negropout, p. (commune), 76,500.
Chalon-sur-Saône, anc. industri. c., dep. Saône-st-Loire, E. France, p. 31,450.
Chalons-sur-Marne, c. on R. Marne, N.E. France; military centre, brewery industry, p. 26,500.
Chalos, £. dep. Haute-Vienne, France, in: Lumoges,

p. 2,850. Chamba, hill *state*, Punjab, India ; area 3,126 sq. m.,

Chambia, bill state. Punjab, India; area a, 126 sq. m., p. 130,000; chf. t. same name, p. 5,250.
Chambal, R. of Centr. India (op. m.), trib. of R. Junna, rising in Vindhya Hills.
Chambersburg, Z. in Pennsylvania, ;U.S.A., in the Cumberland Valley, p. 9,100.
Chambery, cap. Savoy dep., [S.E. France; passed into possession of France from Sardina in 1800, p. (commune) 21,500.
Chambesi, R. S. Cent. Africa, flows into L. Bangweold.
Chamboa, Le, Z. of France, dep. Lore, ironworks, etc., p. 12,000; anc. castle of Feugerolles noteworthy.

Chamo-to, or Chiamdo, t. in S.E. Tibet, p. 12.000. Chamounin, French vit. at foot of Mont Blanc, in lovely valley drained by R. Arve, p. 2.546. Champagne, old prov. N. E. France, fauous for its wines, now subdivided. wines, now prov. N.R. France, famous for its wines, now subdivided. [versity, p. 10,000. Champaign, c. of Champaign co., Ill., U.S.A., unichampaign, c. of Champaign co., Ill., U.S.A., unichampainn, disk of Brit. Inde., Parina div. of Bengal, area 3,331 sq. m., p. aearly a,000,000; indigo planting. Champigny, s. on R. Marne, dep. Sense, France; embroidery, piano-kesys, p. 6,792. Champiain, L., on N. Irontier of N.Y. State, U.S.A. area 488 sq. m., no m. long, discharges by R. Richelton into the St. Lawrence. Champia, and L. on R. Gamers. N. W. P. Jacon.

Chanar, anc. 1 on R. Ganges, N.W.P., India, p. 9 500. Chancellorsville, vil., Virginia, U.S.A.; battle 1863, in which Stonewall Jackson was killed.

Chanda, & Ceat. Provs., Napper div., Isdia; walled, with anc. temples, p. x2,50, cap. of Chanda dix. dress roy49 54. m. p. 50,000; produces size and grant, also contains coalined. [sagar, p. 30,000] Chandauge, k. N.W.P., Isdia, Movadeabad dist, cotton.

Chandarnagore, or Chundera, French c, and terr, on

Hoogli R., India, 20 m. N. of Calcutta, p. 26,000. Chandpur, A. N.W.P. India, Bipaur dist., p. 19,000. Chandra Roma, A. m Midnapur dist., Bengal, India, p. 13,500. p. 13,500. Chili, Atacana prov., copper-Chang-chu-fin, a in Fo-kien prov., China, n. Amoy, centre of silk trade, p. (etc.), 130,000. Changra, t. in Kastamurt vilayet, Asia Minor, once

Changra, t. in Kastamur vilayet, Asla Misor, once the metropolitan see of Paphiagonia, p. 13,000. Chang-sha, cap. of Hu-nan prov. China, on the Heng Kinng, p. 50,000. Channel Islands, group off N. coast, France (Jersey, Guernsey, Alderney, and Sark), area 75 sq. m., p. about 100,000; self-goveraing Brit. 100s. Chif. St. Heliers, in Jersey. [India, p. 6,000. Chantabus, pt. of G. of Siam, occup, by the French since 1893; rubiss, and other precious stones; n. 6,000.

p. 5,000.
Chantenay, £ nr. Nantes, prov. Loire-int, France; Chantilly, £ with samous racecourse, in Oise dep, France, 25 m. from Pans, p. 5,000.
Chanute, £ in Kansas, U.S.A., p. 3,500.
Chapada, £ in Brazil, Mutto Grosso prov., p. 4,200; also £ in Minas Geraes prov., p. 3,000; and sml. £ n. Maranhao prov., p. 2,100. Maranhao prov., p. 2, 200. [11,300 Sq. n. Chapala, L., in Mexico, chiefly in Jahsco State, area Chapel-en-le-Frith, L. in the High Peak, Derbysh.,

Eng., p. 16,557.
Chapelhall, &s.s. nr. Airdrie, Lanark, Scotl., p. 2,000.
Chapellaod, & on R. Luffey, nr. Dublin, p. 2,000.
Chapello-Saint-Denis, & in France, Seine dep.;

chemicals, liqueurs, etc., p. 18,500. Chapeltown, dist. nr. Shefield, Yorks, Eng., p. 7.500. Chapra, t. on R. Ganges, 30 m. above Patna, Bengal, India; centre of saltpetre and indigo trade; p. 46,000. Chard, t. Somerset, Eng., lace, and linen collar mitg.,

La Kochelle, area 2,792 sq. m., p. 445,000; wine and

wheat.

Charenton-le-Pont, fort. L at junc. of R. Marne and Seine, France, suburban to Fars, p. 17,000. Charikar, L in Afghanistan, 36 m. N. of Cabul, p. 5,000. Charjul, L on R. Amu (Oxus) and 474. on Russ. Transaspian Ry., great raw-cotton collecting depot.

Charkharl, native state in Bundelkhand Agency,

Charles area 198 sq. m. p. 150,000.
Charlerol, £ on Sambre R. Belgrom, in colliery dist, p. 25,000 ; also mfig. £ of Washington co., Pean., U.S.A., p. 6,000.
Charles, c. Iowa, U.S.A., on Cedar R., p. 3,000, alw. R. in Mass. (75 m), enters sea at Boston; also two suit-district t's of Quebec.

ss. in mass. (75 in ), enters sea at 200001; also two)
sin-district t's of Quebec.
Charlesbourg, 7., cap. of Quebec co., Canada.
Charleston, 6 and 547, 8 Carolina, U.S.A., defended l
by Forts Sumter and Moultrie; important position in
Civil War; p. 58.83, more than haff negroes; also t.
W. Virguna, U.S.A., in bituminous creal dist. on
Kanacha R. in merch charle in Calenda St. on

anawha R., p. 22,996; also t. in Coles co., Illinois,

U.S.A., p. 5,500. Charlestown, A. Mass., U.S.A., nr. Bunker's Hill: burnt by Brit. 17 June, 1775 now part of Boston, also vil, and sin. N. frontier Nat.il; also vil. S. coast Cornwall, Eng.; also t., Virginia, U.S.A.; also two vils co.'s Fife and Banff, Scott.

vis. co. 5 rie and faint, scott. Charleville, mkt. f., co. Cork, treland, p. 2,000; also t. on R. Meuse, adjoining Ménères, N.E. France, niftg., p. (commune) 20,000. Charlevoux, co. Quebec, Cauuda, abutting on R. St. Charleu, h. nr. Moultbrion, dep. Loire, France,

Charlotte, c. in cotton and tobacco dist., Mecklenhurg co., N. Carolina, U.S.A., p. 34,074; also c. Mich., U.S.A., p. 34,074; also c. Mich., U.S.A. p. 3-60. Charlottenburg, c. on R. Spree, suburban to Berlin: Royal castle, and many flourishing industries;

p. 190,000. Charlottesville, c. on R. Rivanna, Virginia, U.S.A.,

p. 7,000.

Charlottetown, set., cap. of Prince Edward Isl., Canada, p. 12,000. [Melbourne; p. 1,500. Charlton, f. in Victoria, co. Gladstone, 178 m. W. of Charlton Kings, f. nr. Cheltenham, Gloucestersh., Eng., p. 4.49. [p. 3.500. Charmes-sur-Moselle, f. dep. Vosges, France, Charo, f. at foot of Sierra Otzumatlan, Mexico. p. 6.500. Charonne, f. dep. Seine, France, adjoining Paris on Charters & Pensyl, U.S.A., p. 3.000.
Charters, & France, cap. dep. Eure-et-Loir, so m. S.W. of Paris: finest Gothic cathedral in France; Grenoble, France,

p. 22, 200.

Chartreuse, La Grande, famous monasterp nr.
Chaskoi, ch. £ of dep. in Bulgarian E, Roumella, nr.
Fhilippopolis; carpets, woollens, silk-trade; p. 15,000.
Châteaubriant, £ dep. Loure-Intérieure, France,

Châteaubriant, t. dep. Loire-Inférieure, France, impt. riy, centre, p. 7,000.
Châteaudun, t. dep. Euro-et-Loir, France, p. 7,000.
Château-Gonthier, t. dep. Mayenne, France, p. 7,500.
Château-Landon, t. nr. Fontamebleau, France; whiting mitg., p. 3,000.
Châteauquay, vit., R., and dist., Quebec, Canada.
Châteauroux, t. dep. Indre, France; woollen manuf.;

Chateler unit, i. a. France, on R. Marne, p. 9,500.
Chatelet, infig. 4. Hainault, Belgium, on R. Sambre, p. 12,000.
[Pontiers, France, p. 20,000.
Chatellerault, cutlery mitg. 4. dep. Vieture, nr. Chatham, 594, and naval arsenal on R. Medway, Kent, head of the control of the c Ling; p. 42,250; also mig. t. Ontario, Canada, p. 10,000; also fish-exporting spt., N.B., Canada, p. 6,000. Chatham felands, Brit. group in S. Pacific, 536 m. E. of New Zealand; largest isl., Wairikaori, 56 m. E. of New Zealand; largest isl., Wairikaori, 56 m. E. of New Zealand; largest isl., Wairikaori, 56 m. E. of New Zealand; largest isl., Wairikaori, 57 m. Chatillon, d. on Dora Baltea, nr. Aosta, Italy, p. 3,000. Chatillon-sur-Seine, d. dep. Côte-d'Or, nr. Dijon,

Chatilion-sur-Seine, & dep. Côte-d'Or, int. Dijon, France, p. 5,600.
Chat-Moss, peat bogën Lanc., Eng., nr. Manchester. Chatre, La, \( \) in dep Indre, France, p. 5,450.
Chatsworth, \( \) par. Derbysh, \( \) Eng., on R. Derwent, seat of Duke of Devonshire; also agr dist, in N.S.W., on Hopkins R., Villiers co, also isl. at mouth of Clarence R., N.S.W., p. 1,400.
Chattanooga, c. on Tennessee R., U.S.A., iron and steel manuf; seat of Grant Univ., p. 44,604.
Chatteris, mkt. \( \) Camibs, Eng., p. 5,250. [Canada Chaudiere, R., L., and falls, above Ottawa, Queber, Chaudoo, \( \) in French Coclun China, cap, of Nangang prov. prov. [cap. of Bassgruy, p. 14,000. Chaumont, / dep. Haute-Marne, France, formerly Chauny, /, on R. Oise, Atsue, France, p. 10,000. Chautauqua, /...and /o., N Y. State, U.S A., favourite

summer resort, residential, p. 10,000. Chaux-de-Fonds, La, t. Switz., canton Neucliatel,

centre of watch mfrg. : p. 36,000. Cheadle, t. Staffs., Eng., coal-pits, metal manuf., p. 26,706; also Mersey-side industri, township of co.

Chester, Eng., p. 11,000.
Chester, Eng., p. 11,000.
Cheboygan, c. Mich., U.S.A., on L. Huron, saw-

mills, p. 7,000.
Checiny, t. on R. Czama, Poland, p. 5,500.
Cheddar, vil. Mendip Hills, Somerset. Eng., famous

for cheese, p. 2,000. Cheduba, isa in Aracan, B. of Bengal, fertile and well-wooded; area 240 sq. m, p. 24,500. Cheera, f. nr. Khotan, Chinese Turkestan, p. 20,000.

Cheera, I. nr. Khotan, Cliinese Turkestan, p. 20,000.
Chefoo, or Chifu, treaty port on N. coast, Shantung prov. China, p. 35,000.
Chegin, I. in prov. Murcia, Spain, on R. Q. par, nr. the ruined Roman t. of Begastri, p. 11,500.
Cheklang, maritime prov. China, area 35,700 sq. m.; exports, silk, tea, cotton, etc.; p. 12,000,000; cap., Hangchow (g.v.).
(Maldon. Chelmer, R. co. Essex, Eng., joins R. Blackwater at Chelmsford, co. L. of Essex, Eng., 30 m. N.E. London; unfg.; p. 18,008.

mfrg.; p. 15,008.
Chelsea, S.W. dist. of London, Eng., p. 66,404; also c. of Suffolk co., Mass., U.S.A.; p. 35,000; rubber mfrg. Cheltenham, watering place and educational centre, Gloucestersh., 120 m. W. of London, Eng.; p. 48,941.

Chelyabinak, dist. 4. of Russia, on Mijas R. at beginning of W. Siberian lowlands; corn and cattle trade; p. 20,000. Chelyuskin Cape, most N. point of Asia.

p. 20,000.
Chelyuskin Cape, most N, point of Asia. [p. 4,500.
Chemillé, A. nr. Angers, dep. Maine-et-Loire, France,
Chemnitz, L., the "Manchester of Saxony," 40 m.
S.W. of Dresden, p. 210,000. [Seoul, the cap.
Chemulpo, 596. on W. coast Corea, 3g m. S.W. of
Chenab, R. of India, in the Punjab, trib. of Sutlej,
rises in the Himalayas, and runs for 765 m. to the
Chayra [9,500.

Chayra.

Chénee, t. in prov. Liège, Belgium, iron-works, p.
Chénee, t. in prov. Liège, Belgium, iron-works, p.
Chengalpat, dist. of Madras, India, on B. of Bengul;
area 2,849 sq. m., p. nearly if millions.
[830,000]
Cheng-Tu-Fu, cap of See Chuan prov., Chua; p.
Chepstow, mkt. t. on R. Wye, Mon., Eng.: fine
ruined castle, p. 2,953.
Cher, R. flowing from Auvergne mtns.; also central
dep., France; area 2,779 sq. m., p. 34,000; agr. and
grape-growing; cap. of dep Bourges.
Cherasco, t. in prov. Cuneo, Italy, on R. Tanaro silf
and wne industries, p. 11,000.
Cherbourg, strougly fort, p. and naval arsenal on N.
coast brance, ouposite to and 80 m. dist. from Ports-

coast brance, opposite to and 80 m. dist. from Ports-

mouth, p. 43,000.
Chembon, 59. on N. coast, Java, p. 53,000; chf. t. of Dutch residency of W Java, area 262,000 sq. m.; p. 1,500,000; rice and tea and coffee cultivation.

Cherkasi, t. nr. Kiew, Russia, 'inip. industries, p. 30,000 Chernigov, t. (on. R. Desna, p. 27,000) and prov. in Little Russia, E. of R. Dnieper, area 20,000 sq. m.; Little Russia, E. of K. Dineper, area 20,000 sq. m.; p. 2,500,000.

Chernomorskaya, military dist. of Kuban, N. Caucasia, Cherokee, t. m lowa, U S.A., p. 4,420.

Cheroa, Austran ist. and t. in prov. of Istria, on Adratic coast; p. (of t.) 5,000, (of isl.) 11,000.

Cherta, t. in Span, nr. Tertosa, p. 3,600.

Chertaey, residential dist. t. on R. Thames, Surrey, Eng., p. 13,000.

Eng., p. 13,000
Cherwell, R. (30 m.) trib of Thames, nr Oxford, Eng.
Chesapeake Bay, milet on Atlantic coast, U.S.A.,
extending 200 m. from mouth of R. Susquehanna to

Cheshum, t. Bucks, Eng.; industries, boots, brushes, Cheshire, co. of Fig., borders on R. Mersey (area 1,027 %), in p. 054,019), textile and other manufs. Cap. Chester (q. n.).

cap. Chester (q. n.). Cheshunt, t in mkt. gardening dist. with Bishops Coll., Herts, Eng., p. 12,952.
Chesil Bank, a long bar on S. coast of Eng., extends from Portland to Bridjori.
Chesme, or Tchesme, t. in Asia Minor, opposite Scio Cheste, t. in Spain, in: Valencia, p. 5,500.
Cheste, t. on R. Dee, Fing., 17 in from Liverpool cathedral, p. 39,08, also c. Ili, U.S.A., p. 4,940; also c. Delaware, U.S.A., cotton manuf. and shipbidg., p. 38,637.

also c. Delaware, U.S.A. cotton manua. and son costage, 9, 38,537. [on R. Rother, p. 39,429. Chesterfield, mkt. l. in colhery dist., Derhysh., Eng., Chesterfield Inlet, arm of Hudson Bay, U.S.A., 250 m. [West., p. 14,775. by 25 m. Chester-le-Street, units. A. co. Durham, Ling., on K. Chesterton, par. of Cambridgeslure, Eng., suburb of [p. 3,000.

Cambridge, p. 11,534 [p. 3,000. Chestertown, c. in Maryland, U.S.A., on R. Chester, Cheticamp, fishery c. on C. Breton Isl., Nova Scotia,

Chetrona, f. Kmisas, U.S.A., on Mossho R., p. 3,000. Chetrona, f. Kmisas, U.S.A., on Mossho R., p. 3,000. Chetrona, f. in Malabar dist., Madras, p. 8,23 Cheviot Hillis, between Scoth, and co. Northumber-land, Eng., highest pt. 2,676 ft. [Obse. p. 2,140. Chevreuse, f. in France, nr. Versailles, dep. Seme-Chewton, f. (imming) Victoria, p. 5m. N. by W. from Melbourne, p. 2,500.

Cheyenne, state cap, of Wyoming, U.S.A., cattle ranching dist., p. 15,000; also name of R, in Dakota and Wyoming (500 m.), trib. of Missouri.

and Wyoming (500 m.), trih, of Missouri.
Chhatarpur, native state in Bundelkhand agency,
India; area 1,178 sq. m., p. 175,000.
Chhattisgarh, dv. of Central prov., India; area 20,500
sq. m., p. 3,250,000. [India, 4,630 sq. m., p. 408,000.
Chhindwara, dv. of Norbudda div., Central prov.,
Chiapas, manthine state of Mexico, area 27,230 sq. m., p. 360,000; produces coffee, tobacco, sugar and cocoa.

Chiaromonte, t. nr. Syracuse, prov. Potenza, Italy,

Chiaromonte, t. nr. Syracuse, prov. Potenza, Italy, p. 10,000.

Chiavari, t. of Liguria on the Riviera, Italy; shrine of the Madouna, p. 12,000.

Chiavenna, t. of Lombardy, Italy, nr. L. of Como, tamous for beer, wine, and pottery, p. 4,700.

Chicacole, t. in Ganjam dist., Madras, India; anc. mosques; formerly famous for muslin, p. 20,000.

Chicago, c. on L. Michigan, Ill., U.S.A.; second c. in America; immense trade by rail and Great Lakes, flourishing university; great fire in 1871, 500 people perishted and 100,000 rendered homeless; p. nearly 2,183,283; Chicago Heights, a suburb, has 5,500 miliabitants.

Chichester, c. in W. Sussex, Eng., fine cathedral; p. (of the extended box.) 12,504.

Chickahominy, K. (75 m.). Virginia, U.S.A., trib. of James R. Several battles in Civil War nr. here. Chickamauga Creek, branch of the Tennessee R. above Chattanooga; desperate battles in Civil War in 1863; site of a National Park.

m 1893; sate of a National Firk.
Chiclana, mfig. L. Ir. Cadiz, Spain, p. 13,000.
Chico, L. in California, Butte co., U.S.A., p. 4,700.
Chicope, L. Mass., U.S.A., on R. Connecticut; ironworks; p. 20,000.
[Mass., U.S.A., p. 3,85, Chicopee Falls, L. on Chicopee R., Hampden co., Chicopee Falls, L. on Chicopee R., Hampden co., Chicopee Talls, L. on Chicopee R., Hampden co., Chicopee M., Lampden co., Chicopee R., Hampden Co., Chicopee R

t, on bank of latter, eap. of Chicoutini co, p. 2,500.
Chidambaram, A in S Arcot dist, of Madras, Brit, India: pl. of plagramage, famous temples; p. 18,000.
Chiem See, large L, in Bavana, nr. Munich, 12 m. by Chiem Sée, large L. m Havana, nr. Munch, 12 m. by 8 m., 1,500 ft. above ocean level. [p. (dist.) 100,000. Chieng-Mai, L m N. Stam, centre of teak torest dist. Chieri, L nr. Turn, in Fledinont, Italy, was a mediaeval republic; fine Cothic Ch., p. 13,000. of R. Oglis. Chiete, Prov. S. Italy, on Adnatic, area 1,105 sq. m., p. 37,000; C., cap. of prov. the anc. I cate Matrucinorum, p. (commune) 26,500. Chieveley, stn. on Natal main line. 5 m. S of Colenso. Chieveley, stn. on Natal main line. 5 m. S of Colenso. Chieveley, stn. on Natal main line. 5 m. S of Colenso. Chieveley, stn. of Order of B. of Fundy, Canada. Chigrin, of Tchigrin, 1 m govt. Kiev, Russat, p. 15,000. Chievele, I residential par. in Essex, Eng., on borders

Chigwell, residential par. in Essex, Eng., on borders of Epping Forest, p. 21,248.
Chihuahua, state of Mexico, adjoining the U.S.A.,

Chintahua, state of Mexico, adjoining the U.S.A., area 87,820 Sq. m., p. 405,265, mining, stock-rising, and agr.; cap. c. Chintahua, on Mexican Central Rly, electrically lighted, fine cathedral, p. 26,000. Chikishilar, 59t. on E. side of Caspian Sea, in Russ, terr., nr. Tersian frontier. [Cuddalore, p. 20,000. Chilambaram, t. in S. Arcot disk of Madras, India, nr. Chilate for the light of the Russian Balow Russi.

Chilas, for hill 21.6 on R. Indus, 50 m. below Bunji, commanding rd. from Gilgat to Punadi trontier, Chilcoh, R. and L., nr. Mt. Fvans, Brit Columbia, Chilcoh, R. and Joses in Alaska, leading mto Yukon

valley.

Chili, or Chile ; area (including Tacna) 307,620 sq.

m. p. (abt.) 3,500,000. Republic on Pacific coast
of S. America, independent of Spain since 1818.

Sometimes styled "the United States of S. America" Sometimes styled "the United States of S. America "
Great mirate output, and general mini, wealth, also
agr.; chf. port, Valiparaiso, cap. Santiago (q.v.).
Chilkas, alailow lagoon on coast of Bengal.
Chillan, picturesque c. in Nuble prov., Chilli; fine
squares and prosperous industries, p. 35,000.
Chillianwalla, vil. Punjab, N.W. India; battle, Sikh

War, 1849. Chillicothe, cap. of Ross co., Ohio, U.S.A., on Scioto

Chimborazo, min. (alt. 21,420 ft.) in Andes or Ecuador also prov. Ecuador, S. of Quito and Mt. Chimborazo;

area 5,544 sq. m., p. 122,500; cap Riobamba.
Chimkent, Russian in Central Asia, on mtn. stream
Badam, nr. Fashkent, soap works and cotton-

cleaning mills, p. 11,500,

China, total area 4,370,000 sq. m.; p. over 400,000,000, most populous country in E. Asia; cap. Fekin in the N.; S. cap. is Nanking (q.w.). All important ports on the coast and rivers now open to foreign trade. Britain reserver Yang tase Valley as her "Sphere." Russia had, prior to the war with Japan, practically annexed Manchina; Port Arthur and Talienwan being the naval and commercial termini of Trans-Siberian Ry, in that part of what was Chinese territorye China has great industrics, in agr., tea and silk cult., and many manufs. Country partly mountainous, partly rerule plans with numerous navegable rivers. (Philippines.

China Sea, part of W. Pacific between Corea and

Chinandega, cap, of prov. same name in Nicaragua; cotton, sugar, and banana trade, p. 12,000.

Chincha Isls., three small 11/15, on Peruvian coast, formerly a source of guano; included in Lima prov. Chinchilla, t. in Albacete prov., Cent. Spain; p. 6,000. Chinchon, t. ur. Madrid. Spain, p. 5,000. Chindwara, dist. in Narbudda dlv., Centl. Provs.,

India; area 4,630 sq. m., p. 407,000; chf. t., Chind-

wara, p. 9,000.

Chindwin, R. Burma, trib, of Irawadi, rising m the Knmon range and navigable in the ramy season for considerable distance. Chindwin, Upper and Lower, are two Burmese prove, with tertile plains along the R., and extensive teak forests. Rice princ, crop; p. 345,000. Chingalpat, A. Madras, India, p. 10,000 in prov. of the

same name, area 2,842 sq. m., p. 1,315,000. Cotton weaving and salt manufacture

Chingford, vil. bordering on Epping Forest, Essex,

Eng.; p. 8,186. Ching-Hai, spt. China, prov. Che-Kiang, nr. Ning-po, Ching-Tu, c. of China, cap. of Se-Chuen, prov. on R. Min-Klan,

Num-Alan, Chinds, A. R. Chenab, Jhang dist., Punjab, India, p. 15,000. [alove Nanking, China, p. 25,000. Chin-Kiang, ready part Vang-tsee Kiang R., 60 m, Chinon, industl. A on R. Vienue. dep. Indre-et-Loire, Cost. France; nimed castle, once a royal residency;

Cost. France; ruined castle, once a royal residency; p. 6,500.
Chinsura, f. Hoogil R., British India, 24 m. N. of Calchiobbe, f. un prov. Fo-Kien, China, in: the port of Amoy; p. 30,000.
Chioggia, 39t. and cathedral c. on isl. in Gulf of Chippenbarn, f. Wilts, Eng., on R. Avon; grant and cheese trade, cloth factories; p. 5,332.
Chippenb Falls, c. Wisconsin, U.S.A., on Chippewa R.; timber yards; p. 10,000.
Chipping Barnet, f. in Herts, (partly in Barnet part), Chipping Camden, mkt. f. in Gloucestersh., Eng., p. 2,000.

Chipping Norton, mkt. 1. Oxon., Eng., nr. Banbury,

Chipping Norton, mkt. I. Oxon., Long., [p. 1,200, P. 3,972].
Chipping Sodbury, mkt f. Gloucester., Eng., Chipping Wycombe, or High Wycombe, mftg. I. In Bucks, Eng., p. 15,750.
Chirk, to nk. Cheriog, Denhigh, Wales, p. 4,567.
Chirke, to nk. Cheriog, Denhigh, Wales, p. 4,567.
Chirkettst, vt. residential dist. W. Kent, Eng., o m. S.E. of London; Najudeon III. dued here in 1873; p. 8,668.
[to London; p. 38,705.
Chiswick, f. Middx, Eng. on R. Thames, suburban Chitaldrug, dist. of the Nagpur div. Mysore, India, area, 4,871 sq. m., p. 380,000; cap Chitaldrug, b. 4,500.

p. 4,500.
Chitral, R., state, and t in Kashmir, extreme N.W.;
India. The native t. of Chitral stands on the
Kashgar R. nr. the main watershed of the Hindu Kush. Chitral fort, besieged by native rebels in 1895, was relieved by British detachments after a splendid storming of the Malakand pass, and order restored

restored Chittagong, spt. on E. side of B. of Bengal, terminus of the Assam-Bengal Ry., large trade; p. 20,000. Chittore, t. in N. Arcot div. of Madras, Brit. India. p. 12,000.

Chivasso, t. nr. Turin, en R. Pe, N. Italy, p. 5,000;

Chrysmel, F. in. Turn, en al. Fe, N. tally, p. 5,000; tormerly fort.

Chobe, R. Cent. Africa, trib. Zambesi.

Choblam, nvi nr. Wekeng, W. Surrey, Eng., p. 3,500.

Chockawhatchee R., flows through Alabama and Florida (rdo m.), U.S. Ao, to G. of Mexico.

Choisseal, one of the Solomon Isls., Pacific Ocean.

Paris; cloth and other factories, and river trade;

Paris; com an employed process, 2. French Cochin China, nr. Saigon, p. 16,000.
Cholet, 4. dep. Manne-et-Loire, France; cotton and linen factores, fianael weaving; p. 16,500.
Cholula, ancient city Puebla, prov. Mexico; Aztec temple, pyramid of Cholula, and other romains; p. 12,000. p. 10,000.
Chong - Ping, large t. prov. Fo-Kien, China, Chones Arch., Chinan Isls., about rso in number, on W. coast Patagonia.

vv. coast ratagonia.

(hooi, R. Asiatic Russia, flows (650 m.) from L.

Issyk-Kut towards the Sir Daria. [p. 18,000.

Chopra, L. in Khandesh dist., Bombay Pres., India,

Chorillos, wet. pl. nr. Lima, Peru.

Chorillos, wee, pl. nr. 1.ims, Peru.
Choriey, cotton-spinning and fron-working f. N.
Lancsh., Eng., on R. Chor., p. 90,37; also sin.
Industl. f. Cheshire, nr. Macclesheid, p. 2850. nc.
Chorum, in Angora, vilayet of Asia Minor (the anc.
Euchaira attacked by the Huns, a. D. 968; p. 12,500.
Chotta Nagpore, prov. Bengal, India, hilly and forestclad; area 26,068 og. m., p. 4500,000.
Chottn, or Khotin, fort. Russ. f. in Bessarabia, on R.
Dreister, p. 2000.

Linguin, or Khotin, fort. Russ. 1, in Bessarabia, on R. Dneister, p. 20,000.
Chotzen, 1, on the Stille Adler, in Bohemia, p. 3,840.
Christchurch, 494. S. Hants, I-20, p. (urban dist) 5,104; also cap. (p. 57,100) Canterbury prov., South Island, New Zealand; manufacturing, in agr., dist. Christiania, cop. and clit. 49-07 of Norway, on C. Fiord, p. 24,1834.

Christiansand, spt. Norway, 160 m. S.W. of Christiania,

Christianmano, spe. rourney.
p. 15,000.
Christiansborge, fort. settlement on Gold Coast, nr.
Accra, Brit. W. Africa.
Christiansbaab, Damsh settlement on Greunland coast,
Christiansbaad, fortified & Sweden, to m. from the
Baltic, p. to, 500.
[Danish W.I.p. 6,000.
Christiansbad, or Bassin, t. St. Crow Isl., cap. of
Christiansbad, 59t. fishery t. on W. coast of Dronthelm. Norway, p. 15,000.

Christiansund, 36t. fishery t. on W. coast of Dron-theim, Norway, p. 15,000. Christinehamn, t. on Lake Wener, Sweden; iron works, large tart, p. 7,500. Christians Island, sml. Brt. 26t., guano-producing, in Pacific; also Brt. cornel 2ct. in Indian Ocean, to S. W. of Java; also t. in Little Bras d'Or, Cape Breton Isl. Chrudim, t. in Bohemia, Austria, horse-mart and many manis, p. 13,500. [5q. m., agr. p. 4,500. [Sq. m., agr. p. 4,500. [Sq. m., agr. p. 4,500. [Sq. m., ares 3,340], ares 3,340. [Sq. m., acoo. Chuddelgh, mkt. f. on Tegn R., Devon, p. 2000. [Chuddelgh Cape, on N. coast Labrador, at extrem. Hudson Strait. [(Ganges). Chumbul (650 m.) R. Cent India, trib. of Jumas Chumukri, mtn. in E. Hinalayas, alt. 23,944 ft. Chumar, or Chunarghur, fort t. on R. Ganges, S.W.

Chumanari, men. in E. stimulayas, au, 25,044 it. Chunar, or Chunarghur, fort ¿ on R. Ganges, S.W. of Benares, p. 10,000.

Chung-King, or Chunagkeng, treaty pert on Yangtsse R., prov. Szechuen, China, princ, commercial centre of the S.W. portion of Chinese Empire, p. finchiding Kiangpehl 300,000.

Chundan, Ł. nr. Lahore, India, p. 8,500.

Chupra, Ł. on R. Gogra, m. its junction with Ganges, cap. of Saran dist., Berar, Brit. India, p. 60,000.

Chuquinamba, mine, [alk, 21,000 ft.], art t. nr. Arequipa, Peru, p. 6,430.

Chuquinama, at p. 60 Bolivia, area 38,871 sq. m., p. 300,000; cap. Sucre. [under the Incas, p. 5,500. Chuquito, Peru, Ł on W. side of L. Titicaca, impt. t. Chur, cap. of Grisons canton, Switz., in Upper Rhine Valley, nr. Lucerne, cathedral, p. 70,000.

Churchill, asuburban to Accrington, Lancashire, Eng., factories, p. 6,891.

Churchill, or English R. [695 m.], in Keewatin and Athabasca dists., Canada; enters Hudson Bay at Port Churchill; fine harbour, Chusan Ial. and Arch., off E. coast, China. Chusan,

the largest \$i.L\$ of the group (p. 200,000) was occupied by the British in 1840 and 1800; cap. Tinghal. Chust, \$t. on R. Naryin, Russian Turkestan, prov. Fergana, p. 14,500. [frontier, p. 11,500. Clechanow, dist. \$t. of Russian Poland, on Frensical Cienthegos, \$i.L. on S. caast, Cuba; fine land-locked harbour, impt. trade; fight here between American and Spanish, 1898; p. 31,500. Cleza, \$t. of Murcia, Spain, in fertile raisin and orange-crowned dist. 31, 23,00.

Clease, 4. Or Witches, Spani, in Ferture vasus and Grange-growing dist., p. 12,00. Asia Minor, cap. Tarsus. Cilli, picuresque old J. and wat. Jt. of Styrns, Austria, on the R. Save, p. 7,000. Cinalos, or Sinalos, state of Mexico, E. of California;

area 50.189 aq. m., p. 200.200; cap. Cuhacan. Cincinatti, c. on Ohio R., Hamiten oo., largest in Oho, U.S.A., "the Queen City," pork-packing and

many factories, p. 370,000. Cinque Ports, five anc. Eng. ports on coast of Kent and Sussex: Sandwich, Dover, Hythe, Ronney, and Hastings.

Cintra, t. Portugal, favourite summer resort, 18 m. from Lisbon; Royal residences, conventum of C.,

from Lisbon; Koyai residences, convenience a c., 1808; p. 6,200.
Ciotat, La, 5st. on Medit. coast, nr. Marseilles, France; shipbailding; p. 12,000.
Circars, old name for coastland along the Bay of Circars, former dry of W. Caucasia, now in govts. of Chernomorsk and Kuben.

of Chermomorsk and Kuban.
Circleville, f. on Scoto R., Ohio, U.S.A.; furniture and iron implement factorics, p. 7,500.
Circacester, f. Cloucestersh., Eug., the Roman Conneum; wool trade, p. 7,632.
Citheron, or Hlaren, min. on boundary of Borotia and Attica, Greece, alt. 4,000 ft.
Cittadella, f. of Venetia, nr. Padua, Italy; mediaval walls and towers, p. 9,500.
Cithenova, f. of Calabria, prov. Reggio, Italy; built of rums of Cayalmovo (destroyed by carthquake in recols) cities of multiple of multiple of multiple of the property of the pr

rums of Casamoro (active South Control of Pp. 82,000.

(itta Vecchia, c. in Centri, Malta, formerly the cap.

citta Vecchia, c. in Centri, Malta, formerly the cap.

ot Bolivar State (formerly called Angostura), great

of Bolivar State (formerly called Angostura), great commercial centre, p. 1-5,000.
Ciudad Real, prov. of S. Central Spain (arg., p.80 os.), ns. p. 93,000), grazing grounds, forest, and quicksilver nuncs; cap. Ciudad Real; cattle fairs, p. 15,000; also a c. an Mexico, now called San Cristobal.

Cristopai.
Cudad Rodrigo, fort. c. in Salamanca, prov. Spain,
captured by French in 1707 and 1710, by the Eng. in
2706, and stormed again by Wellington in 1872. Fine cathedral, p. 8,000.
Ciudadela, 59t on W. coast Minorca, isl. Spain;
Ciudad de las Casas, formerly cap. of Mexican State
of Chiapas, first called Ciudad Roal, and now Sam

Cristobal, p. 15,000.
Civita Vecchaa, 15t. N. Italy, prov. Rome, the anc.
Portus Trajani, destroyed by Saracous 9th cent., p. 15,000.
Civitella del Tronto, fort. A. Italy, nr. Teramo, Clackmannan, smallest ev. in Scott., N. of the Forth and S. of Perth, p. 31,221; co. t., Clackmannan, on R. Black Devon, at its comfan, with the Forth, p. 2,600.

[remdental, p. 9,77]
Clacton-on-Sea, west. M. on Essex cosst, Eng., Clairac, A. dep. Lot-et-Garonne, nr. Agen, France,

Clairac, A. dop. Lot-et-Garonne, nr. Agen, France, p. 3,800.

Cairvaux, vsl. dep. Aube, France, famous Cistercian Abbey; also vii nr. St. Paul's Bay, in Quebec. Clamety, c on R. Youne, nr. Nevers, France, p. 5,800.

Clane, f. co. Kildare, Ireland, on R. Liffey, p. 1,850.

Clanellians, stev. W. prov. Cape Colony, watered by Oliphant's R., p. 12,000; also t. in Minnedoso co., Mantoba, Canada.

Clapbass, S.W. dist. of London, Eng., p. parly. div., ra8,28; c.th. par., 82,50; also vill. sr. Settle, W.R. Yorks, Eng., famous caves.

Clare, a ca. in prov. of Munster, fedand, area 1,944 sq. m., p. 244,604, co. t., Ennis; also wal. t. s. m. from Ennis; also isl. in Clew Bay, W. Ireland; also salt. t. W. Suffek, Eng.; also t. S. Australia, on Hintt R. Cistessoni, f. in Sullivan co., New Hampsk, U.S.A., p. 7,100

Ctarence, R. N.S.W. (240 m.), enters Shoal Bay; also large pastoral dist. (area 5,000 sq. m.) in N.E. of the Colony.
Clarendon, sm. t. nr. Adelaide, S. Australia; also sm.

t. Victoria, 83 m. from Melbeurne (sometimes called Corduroy); also sm. t in Eurongilly goldfields dist. of N.S.W.

Clarinda, c. lowa, U.S.A., cap. of Page co., p. 4,000. Clarion, bor. nr. Oil City, Penn., U.S.A., p. 3,426. Clarke Mt., highest peak of Australian Alps. N.S.W., alt. 7,826 ft.

alt, 7,356 ft.

Clarke's R. or Flathead R.), fork (700 m.) of the
Columbia R., running from Rocky Mtns., through
Idaho and Washington, U.S.A.

Clarksyllle, t. on Cumberland R., Tennessee, U.S.A.;

great tobacco mart, p. 20,000.

Gausshaal, t. in Harz Mtns., Hanover, Pruss.; silver

mines, p. 9,000.
Clayerhouse, vii. 3m. from Dundee, Scott.
Clay Centre, 2. in Kansas, U.S.A., p. 3,470. [p. 8,365.
Clay Coss, 6. Derbysh, Eng., coal and from centre Clayton, industri. 2. W.R. Yorks, Eng., suburban to

Clayton, industri. I. W. N. Yorks, Eng., shoulden to Bradford, p. 4,853; also sml. t. nr. Manchester. Clayton-le-Moors, cotton-manfg. I. Lancsli., Eng., nr. Blackburn, p. 8,871. Yorks, Eng., p. 1,876. Clayton West, I. m colliery Iss/ nr. Barnsley, W. R. Clear Cape (the southerminost Jr. of Ireland), on ril. off S. W. coast, with lighthouse. [U.S. A.: p. 5,500. Clearfield, I on Susquelamn R., Peunsylvania, Cleator Moor, colliery I. Cumberland, Eng., on R. Eden: D. 8,202.

Cleator Moor, colliery I. Cumberland, Eng., on R. Eden; p. 8, 302.
Cleburn, I. in Johnson co., Texas, U S. A.; p. 8,640.
Cleckheaton, mfg. I. nr. Bradford, Yorksh., Eng.; woollens, blankets, etc.; p. 12,867.
Clee Hills (1,800 tt.), Shropslure, Eng.
Cleethorpes, wat. pl. nr. Grunsby on Linc. const. Eng.; fine oysters; p. (of dist.), Latq.
Clerkenwell, industri. pr. of 1 london inmediately N. of the City; p. (of bor.) 57,166.
Clei mont, pastoral dist. (with bark forests) in Queensland, 570 N.W. of Brabaue; p. 6,500.
Clermont-Perrand, I. in dep. Pup-de-Dôme, France; first crusade preached here; the Gothic cathedral.

first crusade preached here; the Gothic cathedral. formerly cap. of Auvergne, rubber undustry; p. 65,3%. Clevedon, wat. pl. at mouth of R. Severa, Somerset,

Clevelon, our price montone and agr. dist. in N.R., Cleveland, hilly non-tone and agr. dist. in N.R., Yorks, Eng., between K. Iees and Whitby; fine horses. Also r. and port of entry, Olno, U.S.A., on Lake Eric; great railway, steamboat, manuf., and clevel carters, in Fo. fee

Lake Erie; great railway, steamboat, manuf., and educati. centre: p. 50,663
Cleves, wat. pl. in Rhme prov of Priss.; old palace, many manufs., p. 15,000.
Clew Bay (10 m. by 7 m), on coast of Mayo, Iroland Clewer, par. of Berks co., Eng., part of bor. of Windsor, p. 6,000.
Clicky, N.W. sutherb of Paris; old and starch factories, Clifton. Ealponable samueh of Record Prince of Priss.

Chron, fashionable stants on and startin actorics, Chron, fashionable stants b of Bristol, Eng., on R. Avon, hot mineral springs, p. 24,400; also port on Magras R., Ont., Canada; also name or numerous other places in Britain, the Colonies, and U.S.A.

Clinton, cap. (p. 24.000) of Clinton Co., lowa, U.S.A.; also t. (p. 25.557) an Nashuan R., Wortester to, Mass, U.S.A.; also t. m Henry co., Missouri, U.S.A. p. 570; also several other places same name in the U.S.A. and the British colones.

Clitheroe, cotton mftg. t. on R. Dibble, Lancash,

Eng. p. 12,500.
Clock Point, promontory in Firth of Clyde, Scotl., in: Greenock highthouse.
Clogher, A. co. Tyrone, Ireland, cathedra!.
Clonakitly, 596. in. Bandon, co. Cork, Ireland.

Clonakilty, 59t. nr. Bandon, co. Cork, Ireland. 3.740.
Cloncurry, t. in Queensand, on Cloncurry R., in gold mining and mountamous dist. S of the G. of Largent tria, p. 2,840.
Clones, ukl. t. ar. Dundalk, co. Monaghan, Ireland.
Clonfert, c. co. Galway, Ireland, formerly a Bishop's see, famous monastery with seven afters. p. (par f. 5,500.

[lagr .centre, frequent fairs, p. no.27.
Clontarf, no.25 ir R. in Munster prov. S. Ireland, Clontarf, no.25 ir. Lubbin, on the Bay, p. 5000.
Cloudy Bay, inlet on N. coast of South Isl., Nev Zealand.

Clovelly, picturesque fish. vil. in Barnstaple Bay, N.

Clovelly, picturesque fish. viz. in Barnstaple Bay, N. Deven, nr. lifracombe, p. 64x.
Cloyne, nikt. t. nr. Middleton, co. Cork, Ireland, p. Clunes, gold-minng t. Victoria, nr. Ballarat, p. 560
Cluny, or Clugny, t. in, Saone-et-Loure dep., nr. Macon, France; Jamous Benedictine abbey, p. 4,320.
Clwyd, R. in co. Denbigh, N. Wales (30 m.), flows into the Irish Sea at Rhyl, through romantic vale.
Clyde, R. (66 m.) and firth, forms four falls nr. Lanark, S.W. Scotland. On the Clyde stands Glasgow, the chief port and commercial centre of Scotland.
Clydebank t. on the Clyde s. m. below Glasgow. Scotl.

chief port and commercial čentre of Srotland. Clydebank, t. on the Clyde, S.m. below Glasgow, Scotl. Shaphauklung and sewing matchine factory, p. 27,547. Clydes Gale, vall. of R. Clyde, S.W. Scotl., agr., fine horses. Also vil. nr. Holytown Junctiou, N. Lanark; also t. in mining dist., Victoria, 88 na. from Melbourner Coabuilla, state, Mexico, area 62,754 cm. np. 290,000; agr., and stock rusing; cap. Saktillo (g v.). Coalbroukdale, vil. with coal and iron mines, on R. Severn. Shropsh. Eng., p. 2,400. [Tyrone, Irel. Coallsland, vil. nr. Stewartstown, in collery dist., co. Coalville, vil. Leice torsh., Eng., nr. Ashby-de-la-Zouch, p. 18,550.

Zouch, p. 18,550.

Coanza, R. in Lower Guinea, Portug. W. Africa (1000 m.); enters Atlantic 5 of San Paulo.
Coatbridge, colliery and fron micg. L. Lanarksh.

Scotl , p. 43,287.

Coatesville, bor. of Chester co., on Brandywine Creek,

Penn., U.S.A.; boiler works, p. 6,400. Coban, r. Guatemala, Cent. America; coffee and

Peruvian bark trade, p. 18,00°.

Cobar, t. in Robinson co., N.S.W.; copper mining, [N. Cent. Africa.

Cobar, A. in Robinson co., N.S.W.; copper mining, p. Coon.

Cobbe, or Kubbe, cap. of Egyptian terr. of Darfur,
Cobia, Apri on Clini, prov. Ataciana, p. 3,00.

Coblenz, or Coblentz, c. strongly fortified at junction
of Movile and Rhine, Germany, Indiges, of Eighti
Army Corps, when tra-le and pains factories, p. 55,000

Cobourg, port on L. Onlann, Canada, cap. of Northumberland, co.; car works, etc., p. 5,000.

Coburg, c. and machy (part of Sane-Coburg-Gotha).

Germany, old caste, flourishing industries, p. 23,50.,
also vii. and conset prison at Merri Creek, n.

Melbourne, Victoria.

also vil. And convict prison at Merri Creek, n. Melhourne, Victoria.

Cocalgae, f. in New Brunswick, nr. Shediac, Kent c., Cocanada, spt. Godavan dist. Madras, India; rice-cleaning mills, flour lining trades, p. 88,500.

Cochabamba, deb. Bolivia, area 21,438 sq. in, p. 38,000; cap. t. of same name, p. 40,000 (also called Oropesa), fine cathedral.

Cochin, 57, or Malabar coast, Madras, p. 18,000; also native State S. India, feudatory to Madras, area 1,368 sq. in, p. 82,000; principal products, rice, cocoanuts, pepper, coffee, ctc.

Cochin China (93,000; ni. p. 2,900,000), name formerly applied to the whole E. part of Indo-Clina, but now limited to Franch col. in the S E. of the pen. i rice, silk, coffee, etc.; cap. Saigon.

tornerly applied to the whole E. par to Indo-Chind, but now limited to French col. in the S E. of the pen; rice, silk, coffee, etc.; cap. Sangon.

Cockearie, oft in co. Haddington, Scotl., in: Prescupans on Firth of Forth, p. 2,400. [nonworks, p. 5,24]. Cockermouth, t. on R. Derwent, Cumberland, Eng., Cockpen, colliery vit. Midlotham, Scotl., p. 5,000.

Cocos Islands.—[See Keeling.]

Codogno, t. nr. Lodi prov., Mian, N. Italy; chiefmart for Parmesan cheese, p. 12,000. [terc., p. 3,400. Coffeeville, t. in Kansas, U.S.A., "adjoining Indian Coggeshall, t. Essex, Fing., on R. Blarkwater, p. 5,703. Cognilis Creek, t. m. Tallot co., Victoria, 114 in. W.N.W. of Melbourner, p. 2,450.

Cognac, t. dep. Chartente, France, on R. Charente, centre for famous brandy dist., p. 19,500.

Connaset, t. in Mass., U.S.A., in: the Bay, p. 2,780. Cohoses, t. of Albiny co., N.Y. State, U.S.A., on Hudson R., hosjery maint, p. 2,4700.

Combatore, dist. Madras Press, India, area 7,800 Sci. nil, p. 2,5500.

n., p. 2,250,000; agr., timber, etc.; also t. on Noyel

nh., p. 2,350,400; agr., timber, etc.; aso t. oh Noyet R. cap., of dist., p. 54,600. Colimbra, c. cap. of Berra prov., Portugal; wine growing, garthenware manuf; p. 19,000. Coire, or Chur, cap. of Swiss canton Grisons, the Roman "Curia Rhectorum." [dist., p. 8,50 Colac, 4. on L., C., in Victoria, nr. Melbourne; fertile Colchagua, prov. Chuh, S. America, area 3,78; sq. m., p. 100,000; stock-raising; cap. San Fernaudo.

Colchester, spt. Essex, Eng., on R. Colne, oyster fisheries, p. 43,463; also t. on L. Champlain, Vermon.,

U.S.A., p. 5,500.
Cold Harbour, vil. of Hanover co., Virginia, U.S.A.; Cold Harbour, vil. of Hanover co., Virginia, U.S.A.; battles between Grant and Lee, 1864. [1,375. Coldstream, t. Berwicksh., Scotl., on R. Tweed, p. Coldwater, t. cap. of Branch, co. Michigan, U.S.A.; p. 6,420. Coleberg, fort. spt. in Prussia, prov. Pomerania, on R. Coleford, t. Forest of Dean, Gloucester, Eng., p. 4,387. Coleno, vil. on Tugela R., Natal, great battle, Dec. Vil. 1800.

Colenso, vs.6, on lugua 10., a name a name y 17, 1809.
Coleraine, spt. on Bann R. Ulster, Ireland, p. 7,000.
Colesberg, é. in stock-rassing dist., N. of C. Colony, nr. Orange R.
Coleshill, mkt. é. Warwicksh., Eng., 10 m. N.E. Bircolima, c. state, and vol, on Pacific coast, Mexico; c. on Colima R., in fertile valley, p. 19,000; state, area, 2,73 sq. m., p. 65,000; agr. and stock-raising; vol. (30 m. N.E. of c.) alt. 12,685 ft.
Coll. éc. (30 sq. m.) Hebrides, Argyllsh., W. Scotl.
Colle di Val d'Elsa, c. in prov. Siena, Tuscany, Italy; ironworks; p. 6,000.
[U.S.A., p. 7,200.

Colle di Val d'Elsa, ¿ in prov. Siena, l'uscamy, traty; ironworks; p. 6,000.

College Point, bor, of New York c., on Flushing Bay.

Collingwood, ¿ Simcoe co., Ont., Canada, on L.

Huron, dry dock, etc., p. 5,750; also a populous suburb of Melbourne, Victoria, p. 27,500.

Collinsville, ¿ Ill., U. S.A., 12 m. F. St. Louis, p. 4,000.

Collumpton, ¿ nr. Exeter, Devon, Eng.; p.aper mills;

p. 3,500.

Colmar, t. cap. Up. Alsace, Germany; textile inclus-

tries, wine-growing; p. 37,000. Colmenar, t. nr. Malaga, Spain; sm. manuf.; p. 5,000. Colmonell, pic. vil. in Ayrsh., Scotl., on R. Stinchar,

Colmonell, pic. vit. in Ayrsh., Scott., on K. Stindmar, p. 2,250.
Colnbrook, vit. Bucks, Eng., nr. Wraysbury, p. 1,500.
Colne, nifg. t. E. Laucs, Eng., p. 25,603; also name of R.'s in Essex. Herts, Yorks, and Gloucestersh.
Colney Hatch, vit. Middlesex, Eng., 6 m. N. London; large lunatic asylum.
Cologna, mirg. t. Italy, 19 m. from Verona, p. 8,000.
Cologne, c. and spt. strongly fort., on R. Khine, cap.
Rhen, Prussa, magnificent cathedral with spires 515 on height in trace. Ilmort rade and undustries. ft. in height, p. 516,167. Import trade and industries.
Cologno, A. Lombardy, Italy, nr. Bergamo, p. 3,50.
Colombes, vil. and residenti. dist. dep. Seme, France,

nr. Paris, p. 10,000.

Colombey, vil. nr. Metz in Lorraine; here, in 1870,
Stemmetz checked the French under Bazaine

Stemmetz checked the French under Bazaine Colombia [504,773 qs. m. p. 4,000,000]. Republic of S. America, comprising 9 states and 6 territories, formerly known as New Granada, groat mineral wealth: cap. Bogota [2,2.). [tea, p. 160,000, Colombo, cap. and chief port of Ceylon; great trade in Colom, or Aspinwall, f. on Atlantic side of 18th and Canal of Panama, in Colombia Repub., lururi down in rev. of 1885, p. 5,000; also t. in Cuba, prov. Matanzas sugar-planting centre, p. 8,000. Colomba Urugusyan [p. 2,80.), and dep. on the R. L. Plata, area 1,000 sign. n., 2,2,500.]

Plata, area 1,569 sq m., p. 97,500.
Colonna Cape, nost S. pt. of Attica, Greece.
Colonsay, sd. of the liner Hebrides, Scotl., 8 m. long, ecclesiastical antiquities.
Colorado, N. formed by union of Grand and Green R.'s

(2,000 m. long, navigable for 600 m.) in W. of N. America, with wond, cañon, ent. G. of California; also R. (900 m.) in Texas, U.S.A., flows to G. of

Mexico.
Colorado (103,925 sq. m., p. 540,000) rich mining state,
Rocky Mtn. region, U.S.A.; cap. Denver (9 v.)
Colorado Springs, wat. pl., Col., U.S.A., on Fontaine
qui Bouille R., 64 m. S. Denver; p. 29,078.
Coltmess, par. in N Lanark, Scotl, trouworks, p. 350,000
Columbia, cap. of S. Carolina, U.S.A., burned 1865,
p. 36,319; also mftg. f. Penns., U.S.A., p. 13,500;
also c. in Missouri, seat of State University, p. 6410;
also t. on Duck R., Tennessee, p. 6,740; also R.
(1,400 m.) on Pac, slope of N. America, sometimes
called the Oregon, rising in the Rockies.
Columbia, British.—(See British Columbia)
Columbia, District of (7s sq. m.), on left bank of
Potomac R., contains Washington, the federal cap,
of U.S.A.

Columbus, state cap. of Ohio, U.S.A., maftg. and rly.

centre, p. 181,511; also name of smaller t.'s in Ga., Ind., Miss., and Tex., U.S.A. [p. 5,000. Colwyn Bay, wat. pl. on Denbigh coast, N. Wales, Colyton, mkt. t. on R. Coly, E. Devon, Eng., p. 1,950. Comacchio, c. so m. N. Ravenna, nr. the Adratic, Italy, p. 0,730. [formerly called Valladolid, p. 12,000. Comayagua, c. Honduras Republic, C. America, Combaconum, c. in delta of Cauvery R., Tanjore dist, Madras, India, p. 59,000.
Comilla, or Kumilla, t. in Tuppera dist. of Bengal, India, b. 18,000

Comina, or Rumina, I. in Tuppera dist. of Bengal, India, p. 15,000
Comines, I. partly on French and partly on Belgian side of R. Lys; p. of French t. (in dep. Nord), 7,000; of Belgian t. (in E. Flanders), 4,740.
Comiso, I. in Syracuse prov. Sicily, fine medicinal spring, the fallled "Bath of Diana," porcelain manufacty.; p. 25,500.

spring, the fathed "Bath of Diana," porcelain manufacty; p. 25,500.

Commentrey, nin. t. Allier den, France, p. 12,000.

Como, c. (p. 40,000), silk industry, at foot of the Alps, N. Italy; also beautiful L. (35 m. long), both in the prov. of Como, area 1,050 s. in., p. 560,000.

Comorin, Cape, S. most pt. of India.

Comoro Isls., French group between N. Madaguscar and African est.; total area 700 sg. m., p. 70,000.

Compassberg, nun. in Cape Colony, Graaf Reynet dist., alt. 8,500 ft.

dist., alt. 8,500 ft. Complegne, 1. dep. Oise, on R. Oise, France; famous castle; sugar mills, hosiery manuf., etc., p. 17,000.

Compton, name of numerous pares. In Britain; also a dist, on Conticook R., Quebec, Canada. Comrie, on R. Earn, et al. (Contrie, on R. Earn, et al. (Contrie, on Earn, et al. (Contrie, on Earn, et al. (Contrie, on Earn, et al. (Contrie, France, on Est. nr. Quinnjer; salted lish and preserve trade, p. 5,500.

Concepcion, c. (p. 50,000) and pressive trace, p. 5,500. Concepcion, c. (p. 50,000) and press. (3,515, 8d, m., p. 188,000) of Chilir also t. Bolivia, p. 2,400; also t. in Paraguay, p. 15,000; also t. in Hayti, p. 3,200; also t. on Oruguay R., Entre Rios prov., Argentina,

t on Uruguay R., Entre Rios prov., Argentina, p. 15,000.
Conception Bay, m/et on E. coast of Newfoundland, N W of St John's.
Conception, Cape, on coast of California.
Concord, f. Miss., U S A., Interary centre, p. 6,000; also t., p. 21,397, on Merrimac R., cap. of New Hampshire, U.S. A.; also t. on Rocky R., N. Carolina, U.S.A., p. 8,500.
Concordia, c. Kansas, U.S.A., on Republican R., p. 4,000; also t. in Italy, prov. Modena, p. 10,000; also t. on R. Uruguay, Arrenthia, p. 14,500.

4.000; also 2. in Italy, prov. Modena, p. 10,000; also t. on R. Uruguay, Argentina, p. 14,500.
Condamine, K. m. E. Australa, trib, of Darling R. Conde, 2. dep. Nord, France, on R. Scheldt, nr. Valenciennes, p. 5,000; also t. nr. Caen, in Normandy p. 7,000; also spt. N.E. Balla, Brazil, p. 2,500.
Condom, Z. in France, nr. Aucli, den, Gers, p. 9,000, Coney Island, p. N.E. Italy, nr. Treviso, p. 9,500.
Coney Island, p. p., war, Jr. on Long Isl, N.Y., U.S, A., 5 m. long, a mile wide; comprises Manhattan Beach, Reighton Beach, West Brighton, and West End.
Congleton, t. E. Cheshire, Eng., manuf. silks, ribbons, etc., p. 11,310.

etc., p. 11,310.

Congo, greatest R. (estimated length 3,000 m.) in Africa, with its numerous tribs.); drains 1,500,000 sq. m., navigable from sea to Matioli, and above the

Africa, with its numerous tribs.); drains 1,500,000 sq.

n, navigable from sea to Matiol, and above the
Rapids and Falls; estuarry, 7 to 10 ni. wide.
Congo, Portuguese dri. W. Africa, comprising Kabinda
terr. and Northern Angola; chf. t. Kabinda, on the
coast, 3g m. from mouth of Coupe R.
Congo Free State (900,000 sq. m.), p.variously estimated
at from 14,000,000 to 30,000,000), recugnised as a
sovereign power in 1885, under rule of the King of
the Belgians. Congo and tribs, form over 10,000
nand Leopoldville on Stanley Pool.
Congo, French.—(See French Congo.)
Conl., or Cunno, prov. of Piedmont, N. Italy, area
2,755 sq. m., p. 670,000; cap. Coni, nr. Turin, p.
73,200.

Ital Eng. Lake dist, alt. 2,875 ft.
Coniston Old Man, min. at head of L. Coniston, in
Coniston Water, L. N. Lancashire, Eng., 6 m. S. W.
of Amblesside, length 51 m.
Con Lough, co. Mayo, W. Ireland.
Connaught, prov. W. Irel. (6,863 sq. m., p. 645,000),
embracing co.'s Galway, Mayo, Silgo, Leitrim, and

Roscommon; was a distinct kingdom till the reign of Henry I. of England.

Henry I. of England.

Conneant, £ in Ashtabula co., on L. Erle, Ohio,
U.S.A., good harbour, p. 7,500.

Connecticut (4,900 sq. m., p. 1,200,000), most S. of the
six New Eng. States, U.S.A.; copper and brass
mills, textile and other factories, cotton, silk, and
agr. Hartford on R. Connecticut, is the cap., New

agr. Harford, on R. Connecticut, is the cap., New Haven the largest c. Connecticut, R. (450 m.), flows S. between Vermont and New Hampsh through Mass. and Conn. to Long Isl. Sound, U.S.A.

Connelisville, t. in Fayette co., Penn., U.S.A.; colliery

Connersvine; n. n. n. y. region; p. 7,500.

Connemara, mtus. dist. W. of Ireland, in co. Galway, many lakes and bogs. [Whitewater R., p. 7,200.

Connersville, t. in Fayette co., Penn., U.S.A., on Consect, on R. Derwent, co. Durham, Eng.; colliery and ironworks dist. n. 11,200. and ironworks dist., p. 11,209. Conshohocken, t. in Montgomery co., Penn., U.S.A.,

Constance, old. Baden, Germany, on Rhine, where it leaves Lake C., p. 22,000.

Constance I., or "the Swabian Sea," between Switz.

Constance L., or "the Swabian Sea," between Switzand Germ., 45 m. long, 9 m. broad, area 207 sq. m.;
R. Rhine flows through.
Constantia, or Kustendij, 19t. of Roumania, on the
Black Sea, the anc. Tomi; fav. wat. pl.; p. 13,000.
Constantia, wine dest. of Cape Colony, S. Africa, nr.
Rondesbosch.
Constantina, 4. Andalusia, N. of Seville prov., manuly
Constantine, c. and 225. of E. Algeria, standing
2, 130 ft. high on a rock; thriving trade and industries;
Philippenile is its port, p. 52,000 (nearly 20,000 French)

Constantinople, cap. and chf. port of Turkey at S. entrance to the Bosphorus. Turkish t. (Stamboul) and Chnstann subs. (Galatea and Pera) sep. by the "Golden Horn." 'The anc. Byzantum. Magnif. mosque of St. Sophia; p. nearly 7.250,000.
Constantinov, f. in Russia, govt. Volhynia, nr. Zhisamus, see.

Zhitomir; p. 16,500.
Conversano, industri. c. S. Italy, prov. Bari; p. 13,000.
Conway, or Aberconway, 191. (one of the Carnarvon horoughs) in Carnarvonshire, N. Wales; wat. pl. (p. 5,242) at mouth of R. Conway, nr. Great Orme's Head.

(p. 5,242) at mouth of R. Conway, nr. Great Orme's Head.

Cooch Behar, native state, Bengal, India, nr. Darjeeling; area 1,307 50, m., p. 605,000; cap. Cooch Behar, on R. Torsha, p. 10,000; suffered severely from earthquake in 1807.

Cook, dist. in North Queensland, area, 25,000 50, m. Conterbury, New Zealand.

Cook in 18, 13,350 ft., highest point in S. Alps, nr. Canterbury, New Zealand.

Cookin par. nr. Maidenhead, Berks, Eng., p. 12,001.

Cook Isls., or Hervey Arch., Brit. group (Raratonga, etc.) in S. Pacific, 700 m. S.E. of Samoa.

Cook's Peak, mm. [6,330 ft.] in Grant co., New Mexico, nr. Deming.

Cook Strait, chan. between N. and S. islands, of N.Z.,
Cookstown nikt. 1. co. Tyrone, Ireland, p. 3,950.

Cooktown, 5th. in N. Queensland, at mouth of lindcavour R., pearl fishery and muning dist., p. 3,000.

Cooligardie, gold mining 2. (p. 5,000) and dist.

(p. 12,007), W. Australia.

Coolim Miss., in Isl. of Skye, Scott., highest peak, Coomassie (Kumazi), former cap. of Ashanti, Africa, 124 m. N. W. of Capte Coast Castle, now Brit. terr.

Coonor. sauadoritum (6,000 ft. above Sea-level) in Nation. Coonoor, sanatorium (6,000 ft. above sea-level) in Ndgiri Hills, S. India.

Nigiri Hills, S. India.
Cooper's Creek, or Barcoo, an inland R. of Queensland and S. Australia, in copper-imming disc.
Coopers town, L. on R. Susquehama, New York,
U.S.A., p. 3,000.
Coorg, prov. S. India, subordinate to the Govr.-Genl.
through the Resident of Mysore, lying on the
Western Glasts; area. 1,53 a.g. m., forest and coffee
plantations p. 180,000, cap. of Melkara.
Cooroong, The, a lagoon or long tongue of land on
coast of S. Australia.
Cooper. R. (200 m.) in Georgie and Alabama, U.S.A.

Coosa, R. (350 m.) in Georgia and Alabama, U.S.A. Coos Bay, on the coast of Oregon, U.S.A. Cootamundra, t. N.S.W., 253 m. S. Sydney, p. 2,500.

Cootehill, mkt. f. co. Cavan, Ireland, nr. Bellamont

forest, p. 2,000.

Copeland Isla., group off N.W. corst of co. Down, Ireland, at entrance to Belfast Lough.

Copenhagen, ch. port and cap. of Denmark on E. coast of Zeeland is, strongly fortified; p. (with subs.) 600,000

coast of Zeeland IS., strongy formed; p. (with subs.) 500,000.
Copertino, f. in Lecce prov., S. Italy, p. 6,000.
Copiano, 5x4gp. 11,500 and R. in prov. Atacama, Chill, several times overwhelmed by earthquakes; also volcano in Andes range, alt. 17,000 ft.
Coppermine, R. in N.W. Terr., Canada (300 m.), flows N. into Arctic Ocean. [W. of Mount St. Ellas, Copper R., or Atna R., in Alaska, flowing to Pacific Copperopolis, nanna f. in Calaveras co., California, U.S.A., p. 4,500. [Warkworth. Coulett, R. (40 m.) and 62. Northumberland, Eng., nr. Coquimbo, 52. (p. 10,000) and 570% of Chill on the Argentune border, copper-mining dist. Coral Sea, part of the Pacific Ocean, extending from the New Hebrides to Australia, [duction, p. 42,000. Corato, c., prov. Bari, S. Italy, olive and wine pro-Corazon, 50%, in the Andes of Ecnador, alt. 15,871 ft. Corbell, industri. L., dep. Scine-et-Ose, France, on R. Seine, p. 7,500.

Cornell, inclusing for very sense of the control of the cornel, for the cornel of the cornel

Cordoba, c. (p. 80,000) and agr. prov. (area, 62,160 sq. m., p. 572,000). Argentina; also t. State of Vera Cruz, Mexico, p. 6,000.

Cordova, rrev. in Andalusia, Spain (5,300 sq. m., p. 450,000), agr., olives, vines, live-stock; also c., cap. of prov. on R. Guadalquivir; cathedral, formerly one of the most sacred mosques of the Mohammedans,

on the most sacred mosques of the Mohammedans, leather and other factories, p. 67,000.

Corea (93,000 sq. m., p. variously estimated at 8,000,000 to 16,000,000), prin. E. Asia, extending between Yellow Sea and Sea of Japan; formerly tributary to China, now under the influence of the Mikado.

Corella. A. Navarre. Supressed on the state of the Corella.

Correlia, A. Navarre, Span; Riquerco, oil mills, dis-ulleries, p. 6.000.

Corentyn, R. (400 m.) in America, separating Brit. and Corfe Castle, L. Dorsetsh., 1:mg., nr. Wareliam, p. 1,878. Corfu, the Linguest and most N. of Ionam 18]s., Greece, area 27 sq. m., p. 755,000, monitorious, olives, wine; also Corfu, spt. L. the cap., p. 18,000 Corigilano, industr. A. prov. Cosenza, S. Italy, p. Corinaldo, A. m. the Marches, m. Ancons, Italy, p. 6,738. Coringa, perf at mouth of Godavart R., Madras, India,

Coringa, jort at mouth of Godavari R., Madras, India, p. 6,000.

Grinna, goldfield dest. on R. Bieman, Tasmania, p. Corinth, c. Greece, in 18th. of Cornith, across which a ship canal has been cut, p. 4,500. Occupies a site 3 in. distant from the anc. classic city, destroyed by an earth-unke in 1858. Also a t. in Alcorn co., Missussippi, U.S.A. p. 4,000.

Corinth, 18thmus of, divides the Saronic G. from the G. of Cornith, Greece. [Republic, p. 2,000. Corinto, 18thmus of, divides the Saronic G. from the G. of Ireland, largest and most S., area 1,800 sq.m., p. 39,130. agr., fisheries; cap. Cork, c. on the R. Lee, p. 76,632.

Cork Harbour, port of call (Queenstown) for Atlantic Corleone, industri. A. Palermo, Sicily, p. 18,000.

Corneto Tarquinia, f. nr. Civita Vecchia, in prov. Rome, 18dy, Etruscan antiquities; p. 7,500.

Corneto Farquinas, in Control Rome, Italy, Etruscan antiquities; p. 7,500.
Corning, t. in tobacco-growing dist., N.Y. State, U.S.A., on R. Chemung, p. 12,000.
Complanter, township of Penn., U.S.A., contains Oil

city, etc.; p. 11,200.

city, etc.; p. 17,200.

Cornwall, co. (area 1,357 sq. m, p 3:8,131) in S.W.

Eng., rich in tin and other minerals, extreme pt.

Lands End, co. t. Rodmin: also t. prov. Ont.,

Canada, on St. Lawrence R.; p. 6,750.

Cornwallia Islands, Arctic O., Brit. N. America,

east of Bathurst [New York State, U.S.A.

Cornwall-on-the-Hudson, wat. \$\phi\$. in Orange co.

Coro, 4 Venezuela, cap. of Falcon state, nr. the B. of

Coro, n. 7 no 200. Coro, p. 10,000. [mines, p. 9,540. Corocoro, t. Bolivia, dep. La Pay, copper and silver Coromandel Coast, E. coast of Madras Pres., India.

Corona, sm. t. in New York State, U.S.A., p. 2,750; also vil. in Italy, nr. Verona; battle between French and Austrians, 1797.
Coronation Gulf, arm of Arctic O. extreme point N.

Coronation Gulf, arm of Arctic O. extreme point N. Canada, discovered by Franklin. (5.000. Corpus Christi, 5th. Nessoes co., Texas, U.S.A., p. Correggio, t. of Emilia, Italy, cheese and hats, p. Cornelly 15,000. Correze, mountainous dep. S. Cent. France, area 2.23 sq. m., p. 305000, agr., nits., etc., cap. Tulle. Corrib, Lough, L. co. Galway, and Mayo, Ireland, area 68 sq. m.; R. Corrib fives from it theo Atlantic. Corrientes, trading fort (p. 17,000), at junc. of Parsna and Paraguay R., cap. of prov., of C. Argentina, area (of prov.) 25,259 sq. m., farzing; p. 280,000. Corrievreckan, wherefool between Jura and Scarba I., W. Scotl.

Corriskan, L. in Skye, Scotl., nr. Portree. [5,300. Corry, c. of Erie co., Pennsyl., U.S.A., oil region, p. Corsham, mkt. z. Wiks, Eng., nr. Chippenham, p.

3.810.
Corsica [3,368 sq. m., p. abt. 300,000], Fr. isl. in Mediterr. agr., fruit, and wine growing; cap. Ajaccio, birthpl. of Napoleon.
Corsicana t. Texas, U.S.A., cap. Navarro co., cotton-Corsil Polnt, on W. cast of Wigtownsh, Scott. Corstorphine, vil. nr. Edinburgh, Scott. p. 1,200.
Corte, t. nr. the centre of Corsica; corn. wine and marble quarries; p. 6,000.
Cortland, industri. 4. on Tioughmoga R., N.Y.,
Cortona, t. Tuscany, Cent. Italy, nr. Perugia; silk factories: 19, 90,000.

Corrona, F. Juscany, Cent. Italy, nr. rerugia; sinc factories; p. 93,000.

Corunna, 196. on N.W. coast of Spain, and cap. of agr. and mining prov. (area 3,098 sq. ni., p. 631,400) of same name, import trade; p. 45,000; victory and death of Sir John Moore, 1809.

Corvo, 616. most N. of the Azores. [Bala, p. 2,800.

death of Sir John Moore, 1802.

Corro, 6td. most N. of the Azores. [Bala, p. 2,850.

Corwen, mkt. L. on R. Dee, Merioneth, Wales, nr.
Cos, 6td. sep, fr. Cape Krio, Asia Minor, by a narrow
strait, p. 10,000. [Soverely from earthquakes; p. 22,000.

Cosenza, Industri. L. in Calabria, S. Italy, suffored
Coshocton, industri. L. on Muskingum R., Ohio,
U.S.A., p. 6,750.

Cosne, L. on K. Loire, Cent. France; pottery, etc;
Cossacks, Country of the Don, govt. of Russia, N.E.
of the sea of Azof, area 61.497 sq. m., p. 1,500,000.

Costa Rica (18,400 sq. m., p. 8,000). ropublic in
South Cent. America; agr., coffee, and banana
cult.; cap. San Joše.

cult.; cap. San José. Coswig, t. nr. Anhalt, Germany, on R. Elbe, p. 6,200. Côte d'Or, mtns. (highest pt. 1,968 ft.) and dep. in E. France, traversed by S. Saône, area 3,383 sq. m., p.

France, traversed by S. Sadoie, area 3,383 sq. m., p. 361,000; cap. Dijon.
Cotentin, per. in N. France, 50 m. long; Cherbourg, at its extremity, is only 80 m. from Portsmouth.
Côtes-du-Nord, agr. dep. Britany, W. France, area 2,787 sq. m., p. 61,000; cap. St. Brienc.
Côthen, A. on R. Zittan, Anlalt, Germany, beet-root

2.78 50 m. p. 670,000; cap. St. Brienc.

Côthen, t. on R. Zittau, Ahilak, Germany, beet-root
sugar industry, p. 19,000.

Cotta, R. (65 m.) in S. Wales, trib. of the Towy.

Cottopaxi, mtn. (alt. 19,673 ft.) in the Andes of
Ecuador, nr. Quito; lotnest act. vol. in the world.

Cotrone, ftd. t. and 19t. Catanzaro, S. Italy; good
trade in wine, olive oil, etc.; p. 10,000.

Cotswold Hills, W. Engl., between Lr. Severn and
Up. Thames, highest pt. 1,006 ft.; fine sheep
nacturary, 1,000.

Op. Traines, ingrest pt. 1,000 u; the sheep pasturage, Cottbus, industri. L. on R. Spree, Prussa, cloth and Council Bluffs, c. on the R. Missour, Jowa, U.S.A., railway depot and manuf.; p. 30,000 Coupar Angus, nkt. L. nr. Perth, co's Forth and Forlar, Scott.; p. 2,005.

Courbevoie, L. on the R. Seine, nr. Paris, residential suburb of the cap. p. 36,000.

suburb of the cap; p. 26,000.
Courcelles, r. in Hainault prov., Belgium; cofflery dist, linen factores; p. 16,000.
Courland, Russ., Prov. on Bilte, area 10,500 sq m. p. 750,000: agr., manut., and maritume industries; cap. Mittau.

Courtral, t. on R. Lys, West Flanders, Belgium; hinen factories; p. 34,500. Battle of the Spurs, 1362. Coutances, t. in Cotentin pen., N. France, nr. Cherbourg : p. 8.500.

Coventry, mftg. t. N. Warwicksh., Eng. Formerly fumous for its ribbon manuf., now chief centre of

famous for its ribbon manuf, now clief centre of cycle trade in Engl.; p. 106,377.
Covilhão, A. in Beira prov., Portugal, nr. Guarda; cloth fictories; p. 16,400. [Opposite Cincumati; p. 53,270.
Covington, indust. c. on Ohio R., Kentacky, U.S.A.; Cowbridge, A. co. Glam., S. Wales, nr. Cardiff; p. 1,500; [Scot]; p. 14,009.
Cowdenbeath, mining A. near Durfermline, co. Fric, Cowes, W. (p. 0,53) and E. (p. 4650), vant pl. on No. Covet. I. of Wight, Eng., on bord sides of establishment of Medlina R. headquarters of Royal Yacht Clab.

Cowpen, est. min. t. nr. Morpeth, Northumberland, Fng., p. 18,000

Cowpens, vil. Spartenburg, co., S. Carolina, U.S.A.; British defeated here by Genl. Morgan in the Revolution, 1781. [Sydney, p. 8, 53...]
Cowra, agr. and mining diet. of N.S. W., 219 m. W. of
Cracow, car Austrian prov. Gulicia Formerly cap.
of Poland, strong fostress, university, impt. manuf;

or Forains, stores.

p 92,000.

Cradock, f. in Cape Colony, wool trade; p, 8,500.

Crail, yd. in Fife, Scotl., nr. St. Andrews, p. 1,060.

Crailova, f. in Roumanu and cap. of Little Walkichia, good trade in acr. prod; p. 4,000.

Cramlington, f. nr. Newcastle, Northumberland, Eng.,

p 0.376
Cramond, vil. on Firth of Forth, Scotl., nr. Edinburgh;
p 3,200.
for Melbourne, Victoria, p. 2630
Crambrone, t. in N E. Dorset, Ping, p. 2800; also t.
Crambrook, mkt t in Weakl of Kent, Eng. p. 4,340.
Cramston, industl. t. in Providence co., Rhode isl.,
ILS A part for

Granston, indust. It is represented by property of the propert

Creede, i. m. silver mining dist. of Colorado, U.S.A., destroyed by fire in 1802. 1978. p. 1,000
Crefeld, busy mftg / Rhine Prov. Prassia; velvet and silve; p. 107,000
Crefeld, on R. Oise, nr. Beanvals, France; machinery Cremona, c on R. Po, N. Italv. g in from Milan, import, silk and iron industries; p. 98,500
Creston, l. on the light prairie, Union co., Iowa, U.S.A., p. 7,800.
Creswick, bor of co. Talbot, Victoria, in agr, and Crete (area 3,327 80, m., p. 310,273), sch in E. Medit; since the Balkan War part of the Helleine Kingdom, 60 m from nearest pt. in Greece Other clines, Carca

no m from nearest part of the relience a nigroun, for m from nearest pt. in Greece. Other cities, Carca and Retimo. Cap Candia, exports fruit, oil, etc. Creuse, dep. Cent. France, area 2,164 sq. m., p. 280,000; i.gr., etc.; cap, fuere.

Creusot, Le. r. Saone-et-Loire dept., France ; large

Crewitene, nikt. & Somerset, Eng. n. P. 44,970. Crewitlente, & Somerset, Eng. n. 44,970. Crewe, f (L. and N.W. N.) Cheshire, Eng. p. 44,970. Crewe, nikt. & Somerset, Eng. nr. Laumen,

p 3,939.
Criccieth, wat. pl., Cardigan B, N Wales, p. 1,376
Crickhowell, inkt. t. on R. Usk, Brecon, S. Wales;

p. 1,400. Cricklade, mkt. 4 on R. Thames, N. Wilts, Eng., p. (including Wootton Bassetti 11,004. Crieff, A and summer resort, on R. Farn, Perth. Scotl.,

Crient, T. and sunmer resort, on R. Farn, Fern, Sealant, p. 5,571.
Criffel, mins, gold-mining dist. in Pisa range, New Crillon, min. in Alaska, U.S.A., alt. 13,500.
Crimea (200 by 125 m.) Russian ten. between Black S. and S. of Azof, campaign 1854-5 between Russia and the allied forces of Turkey, Britan, Frince, and Sardima was chiefly fought out here (Alina, Balaclava, and Sebastopol); p. 500.00, manily Mahomedan.
Crimmitzehan, A. nr. Zwickau, Saxony; woollen cloth factories. B. 2000.

Criminteenen, p. 23,000.
Crinan Canal, across pen. of Cantyre, S.W. Scotl, connecting Loch Gilp with the Atlantic.
Cripple Creek, mining t. of El Paso co., Colorado, U.S.A., p. 10,500.
Croagipatrick (2,510 ft.) mins. co. Mayo, W. Ireland.
Croatia (16,475 qd. m., p. nearly 2,500,000), a Denubian
prov. (incl. Slavonia) of Hungary, partly mountainous,

' partly agr.; Cap. Agrain, Turkish Croatia (to the S.E.), is now included in Bosnia. Crocodile R.—(Seé Limpopo.)
Cromarty, t. firth. (and form. a co.) of N.E. Scotl. (in 1890, united to Ross); p. (of burgh), 5.698.
Cromer, mat. pl. on Norfolk coast, Eng., p. 4.074.
Crompton, mftg. t. n. (Oldham Lance, Eng., p. 4.758.
Cronntadt, pp. (strongly fort, on an isl. in G of Finishad. Chief Baltic port and naval stn. of Kussal, p. 6.000.
Croothawen, fishery ml. on rocky coast of co. Cork, Iraliand.

Ireland. Crookston, t. on Red Lake R., Polk co., Minnesota,

U.S.A., p 5,800. Crosby, or Great Crosby, wat. pl. nr. Liverpool,

Crosby, or Great Crossy, was present the property of the property of the Color of t

Indian Ocean; Possession Isle, the highest, has a snowy peak exceeding 5,000 ft. alt.

snowy peak exceeding 5,000 ft. alt. Csaba, or Bekés-Csaba, mkt. and industril. t. in Hun-gary, 50 m. S. W. of Grosswardein, p. 35,000 Csongrad, mkt t. in agr. dist. at junct. of R.'s Theiss

Csongram, mat. 6. "sq.", p. 23,400.
Csorba, Lake of, the "Pearl of the Tatra"; extensive mtn. L. in Lipto county, N. Hungary, a favourite tourist resort.

Cuba (area 45,000 sq. m., p. 2,150,112), W.-most and Largest of W. Indian Isls, taken from Spain by the United States, but later relinquished to the people United States, but later reinquished to the people and constituted at independent republic. Has rich copper mines, and produces tobacco, coffee, and sugar. Cap. Havana (g v). [p. 6,000. Cabaccao, gold-nuning d. in prov. Matto Grosso, Bazzi, Cubango, R. S. África, enters L. Ngami. Cubango, R. S. África, enters L. Ngami. Cuckhellin (or Coolis) Hilla, in J. of Skye, Scotl.; highest point, Scuir-na-Gillean, 3, 189 ft. Cuckhelon, inkt. J. Sussex, Eigg. ur. Lewes, p. 1,899 Cuddalore, 594. on E. coust India, nr. Fondicherry, S. Arcot div. of Madras; good trade; p. 59,000. Cuddapah, J. and dt.f. Madras, India, nr. the Pennar R.; cotton, cloth factories; p. 18,000. Cuddeadon, J. nr. Oxford, Liux, p. 1,740. Cudegong, min L. and R. N.S. W., co. Wellington, p. (dist.) 4,240. Cuence, g. on Jucar R. (p. 11,000), and agr. and mining

(dis.1, 4,240.)
Cuenca, c. on Jucar R. (p. 11,000), and agr. and mining prov. of centl. Spain, area 6,039 sq. m., p. 250,000; also c. in Equador; important industries, p. 25,000. Cuernavaca, csp. of Morelos State, Mexico; anc. Indian t. captured by Cortes, p. 17,000. Cuero, industri. t. in Texas, U.S.A., p. 3,00. Cuesmes, coal-mining f. adjorning Mons, Belgium, p. 9,000. [Medit, p. 21,000.]

Cuevas de Vera, old mkt. t. in Almeria, Spain, nr. the Cuilera, spt. on Jucar R., Spain, m Valentia prov.,

Cadlera, spf. on Jutar R., Spain, in Valentia prov., p. 11,500.
Culebra, walkey and mrins. in Northern New Mexico, or. Colorado border; also spt. of Costa Rica, fine harbour.

Cullacan, c. Mexico, on R. of same name, sp om S.E. Cullen, spf. and royal burgh on Moray F., N.E. Scott., one of the Eigin Burgits, p. 2,153.
Culloden Moor, 6 in. E. of Inverness, Scott. Defeat of Prince Charles Edward in 2746.
Cullompton, or Collumpton, mkt. c. Devon, Eng., nr. Exeter; paper mfr., p. 2, 200.

Currentprom, or contumpton, mat. 2. Devon, Eng., nr. Exeter; paper mits; p. 3,500.
Culrosa, sm. \$\textit{\rho}\$. on F. of Forth, Scoti., co Perth. One of the Stirling Burghs.
Currentprom Sti

N.E. England, includes Carlisle (g.v.).
Cumberland, industl. t. on Potomac R., Maryland, U.S.A., p. 22,839; also rural t. N.E. of Rhode Isl., U.S.A., p. 9,000; also R., trib. of Olso, flows 700 m. in Kentucky; also pen. of Arctic America.

Cumbermauld, & in Dumbarton co., Scotl., nr-Glasgow, p. 1,200. (Buteshire, Scotl. Cumbrae, Great and Little, two isks. in F. of Clyde, Cumbrian Mins., enclosing Eng. Lakeland Cumberland, Westmoreland, and Lancashre.

Cumdinamarca, dep. of Colombia, Cent. America: contains the Fed. cap. Bogota; area 70,691 sq. m.,

p. 500,000 (only one-fourth wintes).
Cumnock, Old (p. 3,700), and New (p. 3,840), two t.'s in munng dist. of Ayrsh., Scotl.

Cumnor, par. on the Oxford border of Berks, Eng.,

p. 1,200. Cunamulla, f. on Warrego R., Queensland, p. 2,400. Cundletown, f. on Manning R., N.S.W., p. 1,580 Cunene (or Nourse), f. (600 m.), Portng. W. Africa, falls into Atlanuc,

Cunes, cathedral c. (p. 27,000), and prov. (silk-spinning)

of Fredmont, N. Italy.
Cunha, industri. t. São Paulo, Brazil, p. 4000.
Cuorgue, t. nr. Ivres. Predmont, Italy, p. 3,500.
Cupar, co. t. Fife, Scotl., on R. Eden, one of the St.

Andrews Burghs, p. 4,-80.

Curaçoa, zel (Durch) W Indies, in the Caribbean Sea, off N. Coast of Venezuela; area 212 sq. m., p. 53,000. Cattle-rearing, fruit growing, etc.; cap.

Curico, prov. of Chile, S. America, area 2,973 sq. m. p. 103,000; cap. Curico, c. 114 m. from Santiago, p. 15,000. [70 m, long. urishe Haff, a lagoon of the Baltic, E. Prussia: Curitba, commerci. c. in the Parana prov., Brazil,

p. 20,000. p. 20,000.

Curragh, plain co. Kildare, Ireland; large military camp and race-course. [Ireland. Curragh (or Corragh Mtns.), range in co. Tyrone, Curtea d'Argesti, t in Roumania, on Southern slopes of the Carpathans; cathedral, p. 4.250.

Curzola, r.t. and t. of Austrian Dalmatia, in the Adratic; fishing, seataring, agric.; p. (of isl.) 19,000;

(of t.) 6,500.

Cusano, industri. t. in prov. Benevento, Italy, p. 4,200. Cushendun Bay, nr. Knocknacarry, co. Antom, Ireland

Cushier, R. in co. Armagh, Ireland. Cushet, t dep. Allier, France, nr. Vichy; famous for

mineral waters, p. 6,500.
Custozza, v.l. of Verona, Italy; here Austrians defeated Sardinians, 1848, and Italians in 1866.
Custrin. or Kuestrin, l. nr. Frankfort, Prussia; machinery works; p. 16,500.
Custrin to so so. m. n. 48, 200. dees, and native state on Cutch (0.500 sq. m. p. 487,500), pen, and native state on N.W. coast India; suffered much in the famine of

78. "Costs inut; suncted inute in the farmer of respective, also from plague; famous for silver filigree work and embroidery; cap. Blud. Cutch Gundeva, prey Baluchistan, in Orissa div, Bengal, Inuta; area, 3.63 sq. m. p. 2,000,000; rue exports; also c. cap. of Orissa, on R. Mahanadi,

p. 50,000. Outhors of Hamburg at the mouth of R Elbe, Germany; fine harbour, p. 7,000. Cuyaba, industri. c. cap. of Matto Grosso prov., Brazil,

on R. C., p. 29,500, Cuyahoga, R. (85 m.) in Northern Ohio, U.S.A., flow-ing mto L. Erie at Cleveland; Cuyahoga Falls is a t.

on the R. bank, p. 3,720.
Cuzco, anc. c. in the Andes of Peru; once capital of the Inca: temple and fortress, hesseged and sacked by Manco Inca in 1236; cathedral; p. 3,000; present cap. of Cuzco prov. (area 156,79 sq. m., p. 438,646).

Cyclades, group of icls. in the Grecian arch.; p. (total) 135,000; ch. t. Syra. [p. 4.500. Cynthiana, l. on South Licking R., Kentucky, U.S.A.,

Cyprus (3.584 sq. m., p. 274.08), Brit. 13/2. In the Levant; greatest length, 140 m., greatest width, 60 m.; salt lakes, rock crystal, ashestos, copper, etc.; cap. Nicosia; chf. port, Larnaca; centre of wine trade, Limasol.

Cyrene, and c. of Cyrenaica (now Ghrennah), 10 m. from the Mediterr., N. Africa; many antiquities. Czaslau, c. in Bohema, Austria; chf. t. of dist. same

name; garrisoned, sugar refinery, p. 9,400.

Czegled, f. 50 m. S.W. Budapest, Hungary; famous for wines, and a great grain mart, p. 30,000.

Czenstechowa, industri. t. on R. Warta, in prov. Petrikau, Poland; noted monastery; p. 15,000. Czernowitz, t. on R. Pruth; cap. of Bukovina prov., Austria; university, Greek cathedral, thriving trade, p. 88,000.

p. 80,000.

Czirknitzer (or Zirknitzer Sea), L. (with isl.) in Carmiola prov., Austria, south of Laibach, 6 m. long; extraordinary variations in depth.

Czornahora, men. in the Carpathians, Hungary; alt. 3.400 ft. Czudin, sml. industrial f. S. of Czernowitz, Austria,

Dabaz Isl., one of the Bishop's Isls., group of the Hebrides, in the shire of Inverness, Scotl, 1 m. long

by 1 m. wide.

Dacca, drv. Bengal, British India, area 15,000 sq. m., p. nearly 10.000,000; also dist. of the div. between Ganges and Lower Brahmapootra, area 2,797 sq. m., Ganges and 1.0wer Drammapoorra, area 2,797 sq. mp. 2,500,000; also cap, same name, on Burganga R., an old ohannel of the Ganges, p. 91,000; impt. md.; c. suffered severely in earthquake, 1897.

Dachstein, min., one of the highest peaks of the Limestone Alps, Salzkainmergut, Hungary, alt. 9,810 ft. [Penrith, p. 1,000.

9,830 ft. [Penrith, p. 1,000. Dacret, viii. Cumberland, Eng., on K. Dacre, on Dagenham, par. in S. Essex, Fing., p. 3,500. Daghestan, prov. Asiatic Russia, in the Caucasus, one of the most mountainous dists, in the world; 11,492 sq. m., p. 597,400; cap. Derbend or Derhent. Dago, 117 Russia, at entrance G. of Finland, p. 15,000. Pagupan, commercial t. in Pangasiman prov., Luzon, Philippine isls., p. 16,000. Massowah; Italian. Dahlac, or Dahlak, group of 11/2, in Red Sea, nr. Dahlen, t. Rhenish Frussia, nr. München Gludbach, p. 6,500; also t. Saxony, nr. Leipvic, p. 3,000. Dahomey, lold stragdom, Upper Guinea, N. W. Africa, now a French colony, 5,000 sq. m.; natives pure negroes and fetish worshippers; p. (abt.) 1,000,000, cap. Abomey.

Dalguire, vil. nr. Santiago, Cuba, p. 1,500: American army landed here 1800. [Maybiole, p. 2,230. Dallly, £ar. in co. Ayr, Scotl., on R. Girvan, nr. Dairsie, £ar. co. Fife, Scotl., nr Cupar, on R. Eden, Dakahlieh, £arc. Lower Egypt, aras 9,309 89, ms, p.

coo.coo. Dakota, North (70.795 sq m., p 600.coo), a N. state, U.S.A., famous for wheat production, bordering on Cinada; cap Bismarck.

Dakota, South (77.695 sq. m., p. 593.coo), state U.S.A., m Upper Missouri basin; agr., inthous, in the W.; cap. Pierre. [corn. p. 27.000.

cap. Pierre. [corn, p. 21,000.

Dalaguete, t. in Cebu, Philippine isls.; sugar, Indian
Dalbeattie, t. Kirkcudbright, Scotl., nr. Dumfries;

grante; p. 3,357.

Dalocarlia, "the Dales" dist, of mid-Sweden; iron, copper, and other mines; peasant proprietary, much forest land and mtn.; now Kopparberg or Falilen

Dalfsen, t. nr. Zwolle in Overyssel, Holland. Dairsen, r. nr. Zwoile in Overyssel, Holland, p. 5,500. Daigetty, mining par, nr. Dumfermline, Fife, Scotl.,

Dalhousie, health resort in Gurdaspur dist., Punjab,

India, 7,687 ft. above sea-level.

Dallas, industrial t. Almena, Spain, p. 10,000

Dalkeith, t. nr. Edinburgh, ironworks and colliery

Dalketth, f. nr. Edinourgh, holimons and contag dist, p. 7,019.

Dalkey, f. nr. Dublin, Ireland, p. 3,000; also sink, and dist, in S. Australia, nr. Adelaide, p. 1,500.

Dallas, c. cap, of Didles, co. Tea is, U.S. A., in cotton and grain-growing region, p. 6,202.

Dalles, f. on the Oregon R. in Oregon State., J.S. A., Dalmatia (4,954 sq. m., p. with garrison, Too,000), Crown land and kingdom of Austria-Hangary, on Adustic coast, with many isls; mainly a mountanous Adriatic coast, with many isls.; mainly a mountainous tract, producing wine and oil.

tract, producing wine and oil.

Dalmellington, nd. in co. Ayr, Scotl., p. 1,500.

Dalmeny, nd. Linlithgowshire, Scotl., p. 1,700.

Dalmy, t. built by Russia, nr. Port Arthur on the Liao-tung Pen., in Manchuria, p. 50,000.

Dalry, mining t., Ayrsh., Scotl., on K. Garnock; p. 5,500.

Dalserf, Clydeside, industrl. dist. in co. Lanark, Scotl.; p. 16,000.

Dalston, N.E. dist. of London, Eng.
Dalton-in-Furness, L. N. Lancs., Eng., nr. Furness
Abbey, ironworks and mining; p. 10,765.
Dalton-le-Dale, industri. per.nr. Sunderland, Durham,

Eng.; p. 14,500.

Daman, Damaun, or Damao, Portug. spt. and terr. on G. of Cambay, W. Indies; salt industry; area of

on C. of Cambay, W. andies; salt industry; area of prov. 148 sq. in.; p. 65,000.

Damanhur, anc. f. Lr. Egypt, nr. Alexandria; cotton Camanhur, anc. f. Lr. Egypt, nr. Alexandria; cotton Ip. 95,000.

Damar, G. of Yeinen, Arabia, nr. Sana, impt. trade; Damaraland, part of Ger. S. W. Africa. Ils only port. Walfisch Bay, is Brit. Cattler-earing.

Damascus, app. of Syria and largest c. in Asiatic Turkey, 70 in. E. of its port, Beyrout; p. variously estimated at from 300,000 to 350,000.

Dambula, vif. nr. Kandy, Ceylon, with noted Buddhist temples, once famous for dunty, now a trading and fishing town: p. 45,000.

Dambula, vif. Jabappore div. of Cent. Prov., India; area 2,821 sq. m.; p. 285,000. Suffered nuch in famme of 1896-97, cap. Daniol; p. 12,000.

Dampier Arch., group of sml. 15/50, off N.W. coast of Australia.

Australia.

Dampier Straits, chan, between N W. of New Guinea and Waigu Isl.; also strait in Bismarck Arch., between Rook Isl, and New Britam.

Danakil, or Dankali Country, coast land between Red Sea and Abyssima, called also Afar country.

Danao, t. on Cebu coast Philippine Isls., rice and Danby, A. Connecticut, U.S.A., Fairfied co., hat and boot industries, p. 20,000.

Danbury, A. Connecticut, U.S.A., Fairfied co., hat and boot industries, p. 20,000.

Danby, par. nr. Guisborough, N.R. Yorks, Eng.,

agr., J. 7,591.

Dankara, / nr. Coomassie, in Upper Gumes, in gold Dankara, or Danzig, strongly fort. spt. on R. Vistula, near its mouth (6. of D.), W. Prussa; p. 180,000; military headquarters, shipbullding, etc.

Danube, R. (1,770 m.), second largest river in Europe, ruses in Schwarz Wald and flows into Black Sea. Navig, for steamers from Ulm to the sea Vienna, Budapest, Belgrade, and other large cities on its banks; Lower Danube under international control.

Danvers, rural mftg. t. Mass , U.S.A., 19 111. N Boston,

Daville, c. in colliery dist., Ill., U.S.A., p. 27,871; also c. in tobacco region of Virginia, p. 17,000; also from mfg. t. in Peinn., p. 8,000; also c. (cap. of Boyle co.) Kentucky, U.S.A., p. 5,000.
Dayab, or Darabgherd, A. prov. Fars, Persia, p. 2,000;

the anc. Pasargadæ.

Darbangah, dest. Patna div. of Behar, Beng il, India, area 3,335 sq. m, p 3,000,000; also c cap. of dist., p. 66,000, on Little Baghman K. Magnii, palace of Rajah.

Darby, ind. f. in Penn., U.S.A., p 3.500.

Dardanelles, stratt between Europe and Turkey in Asia, 40 m. long, commanded by castles; also chi. t. of Turkish prov. of Bigha, Asia Minor, on the narrowest part of the Strait; p. (exclusive of garrison) 13,000. ((cstim-ted) 20,000.

Dar Bibaida, grain port of Central Morocco, p. Darent, R., in co. Kent (20 m.), Eng, flows to Thames

at Erith.

Darfield, collry, dist. nr. Barnsley, W.R. Yorks, Eng.
Darfur, country N. Cent. Airca, W. of Kordofan; area 100,000 sq. nr.; cap. Fi Fasher; p. about 4,000,000, mainly negroes and Arabs.

Dargle, waterfall and romantic glens, co. Wicklow, Ireland, nr. Bray.

Dariel, famous forti, corge of the Caucasus, the anc.

"Gate of the Iberians." Russian fort at one end stands 1,22 ft. high.

Darlen, Gulf of, portion of Caribbean Sea on N. coast of Isthmus of Fanama, or Darien, Centl. America.

Darjilling, or Darjeelling, hill str., and dist. Belard div., leengal, India, area 1,764 sq. m., p. 250,000: tea and quinte producing; also c. cap. of dist. Sanatorium for British troops; suffered from earthquake and landslips; p. 27,400.

[P. 17,107.

landslips; p. 17,400. [p. 17,107. Darlaston, t. Staffordsh., Eng., coal and iron works, Darling, or Calewatta, R. New South Wales (160 m.)

joins Murray R. at Westworth; also D. mtns., granite range; great grazing country of West Australia parallel with coast, highest pk. 3,500 ft.; also D. Downs, rich pastoral dist., Queensland, W. of Brisbane.

Brisbane.

Darlington, colliery and mftg. t. Durham, Eng., p. 55.63; also t. S. Carol, U.S.A., p. 3, roo; also suburb of Sydney, N.S.W.; p. 2, 200.

Darmstadt, t. Germany, cap. of Grand Duchy of Hosse Darmstadt, on R. Durm, nr. Frankfort-on-Main; carpet and nichny, mannf.; p. 88,000.

Darrang, d. wf. in Brahmaputra Valley div., India; area 3,418 sq. m.; tea culture; p. 340,000.

Dart, R. (46 m.) Devonsh., Eng., enters English Channel at Dartmouth.

[23,000.

Darford mtt. J. Kent. Eng.; chemical works, p.

Channel at Darimouth.

[23,609.
Dartford, mkt. J. Keut, Eng.; chemical works, p.
Dartmoor, high stony plateau, S. W. Devonsh. Eng.;
140,000 acres; convict prison.

Dartmouth, 594, S. Devonsh, Eng., p. 7,005; also
industri. t. Nova Scotu, Halifax cn, p. 7,000; also
t. Mass., U.S. A., p. 3,740; also port on Richmond
Bay, Prince Leilward L.

Darton, f. W. R. Yorksh., Figs., nr. Barnsley, p. 9,488.

Dartyar, J. nr. Possey, Humetry, martile, one res-

Daruvar, & nr. Posega, Hungary, marble quarnes;

p. 10,000.

Darwen, f. N.E. Lancashire, Eng., nr. Blackburn;
cotton trade and blast furnaces; p. 40,344.

Darwin, Mount, peak in King Charles's South Land,
Tierra del Fuego, alt. 6,800 ft.

Dashkova, t. govt. of Mobiley, Russia, on R. Dueiper; D. 8.500.

Datchet, vil. adjoining Windsor, on R. Thames, Eng.

p. 1.450.

Datia, native state, Cent. India, Bundelkhand Agency, in: Gwalior; area 837 sq in: p. 190,000; also c., cap, of State, stonewalled, with palaces; p. 28,000.

Datschitz, t. nr. Iglaw, in Moravia, fine château, p. 11,00.

Datschitz, f. nr. Iglaw, m Moravia, me Comeran, p. 3,100

Daudnagar, f. Patna div., Bengal, India, on R. Son; Dauphine, old proc. S.E. France, now dep. Iskre, Dröme, and Hantes-Alpes Prance, now dep. Iskre, Dauria, country circling Nerchinsk. Transbaikalia, Davangere, f. in Mysore, India, p. 6,500.

Davenport, c. Iowa, U.S.A., at foot of Rock Isl. Rapids, on Mississipi flour multi; p. 4,268.

Daventry, boot ming. f. Northamptonsh, Eng., 3,519. [5] Columbia, Panama State, p. 5,000

David, c. Nel.raska, U.S.A., p. 3,510; alsot in Repub. Daviot and Dunlichty, par. Soct. co's Nairn and Inveness; p. 1,350.

Inverness; p. 1,350. Davis Strait, channel between Greenland and Brit. N. America; connects Atlantic with Baffin Bay.

Davos Platz, Alpine winter resort, Grisons, Switz.;

alt. 4,645 ft.: P. 4,100.

Dawdon, or Seaham Harbour, mftg. t. Durham, Eng., nr. Sunderland, p. 10,000.

[Ironworks. Dawley, t. Shropshre, nr. Wellington, Eng., p. 7,701.

Dawlish, west. pt. S.E. coast, Devonshire, Eng.;

p. 4.099.
Dawson, R., Queensld., Australia, trib. of R. Fitzroy; also isl. in Magellan Strait, Tierra del Fuego.
Dawson City, on R. Yukou, Canada, ir. the Klondyke goldfields, p. 10,000 [spring, horse mart; p. 10,000. Dax, f. S.W. France, on R. Adour; hot sulphur Daylesford, f. Victoria, Australia, 76 m. from Melbourne, p. 5,000. Dayton, f. Ohio, U.S.A., on Great Miami R.: iron and

Dayton, 7. Ohio, U.S.A., on Great Miami R.; iron and steel, agr. implements, etc.; p. 120,000; also t. on the Ohio R. Kentucky, U.S.A.; p. 6,500. [Capetown. De Aar, 4. and *py. junction* in C. Colony, 500 m. from Dead Sea, salt-water L. in Palestine, receives R. Jordan; surface 1,292 R. below level of the Mediterranean; area 340 sq. m., length 47½ m., greatest width oj m. Deadwood, mining 4. Dakotn, U.S.A., m Black Hills Deal, anc. \$pt. and wat. \$pt. E. Kent, Eng.; opposite to the Goodwin Sands and nr. where Julius Cassar is said to have first landed; p. 11,297. Dean, Forest of, Gloucestersh., Eng.; between Wye and Severn R. 3; coal and fron dist.; 22,000 acres. Deboe Lake, north Cent. Afr., 500 m. S.W. of Timbuctoo, an expansion of the R. Niger. Debrecsen, t in pastoral plain of Hungary, 114 m. E. of Budapest, p. 75,000.

Decatur, mftg. t. in colliery dist., Macon co., Illinois,

U.S.A., p 31.140. Decazeville,  $\mathcal{E}$  in Aveyron dep., France, coal and iron

works, p. 12,000. Deccan, The great upland of S. India, bounded by the Narbadda and Kistna R.'s

Decorah, t. on the Iowa R., in Iowa, U.S.A.; p. 3, 200. Dedeagatch, spt. of Turkey, 10 m. N.W., of the mouth

of R. Martza, cak-timber trade; many antiquities; p. 4,000. Dedham, J. in Norfolk co., Mass., U.S. A.; woollen Dee, R. iu N. Wales and Cheshire (or m.); also R. in Advance and Martin Martin Co. Scotl (See a). Aberdeen and Knacrdine co.'s, Scotl. (89 m.); also R. in Aberdeen and Knacrdine co.'s, Scotl. (89 m.); also R. in Kurkendbrightsh., Scotl. (88 m.); also R. in Ireland, cn. Louth (20 m.), flowing to Dundalk B. Deer, L. (146 m. long) in Canada, drains into R. Whestender

Deer, L. (146 m. long) in Canada, drains into R. Massisuppi.

Masricuppi.

Deering, t. in. Portland, Maine, U.S.A., p. 6,000.

Dees or Des, t. on R. Szamos, Hungary; large distillery, p. 10,000.

Defiance, mtg. t. on R. Maumee, Ohio, U.S.A., p. Dehra, t. N.W. Provs., 1 vidia, hdqrs. of the Dehra Din

dist., p. 25,000; area of dist. r., rog sq m., p. 78,000. Delr, or Derr-ez-Zor, t. of Aslatic Turkey, on R. Euphrates, cap. of Zor sanjak, p. 7,000. Deltz, f. ftd. Rhenish Prussia, on the Rhine, opp. to and incorporated with Cologue; artillery stores,

Delagoa Bay, harbour in Indian Ocean, S.E. Africa; Portuguese training stn. of Lorenzo Marques on N.

side.

Delaware (2.050 sq. in , p. 190,000) Middle Atlantic
State, U.S.A.; fruit and grain growing, manuf, etc.,
cap. Dover: th. port. Wilmington, Delaware R.
flows (350 ni.) from New York State along the Pennsylvania border, through New Jersey to Delaware
Bay. Delaware is also the name of a country and
its cap, in Ohlo, U.S.A.

Delying or Delvino, c. (fort.) in Albania, nr. Janina; p.
Delemont, c. in canton Bern, Switzerland, p. 3,200.
Delft, anc. c. and port on R. Schie, S. Holland, nr
Rotterdam, butter and cleese mart; carthenware
mftg.: p. 35,000.

[Rotterdam, p. 14,500.

mftg.: p. 35,000.

Delftshaven, & on R. Mass, Holland, suburban to Delgoa, native & in Bornu, Cent. Afr., nr. Kuka,

Delhi, cap. of India, was constituted a province (area 557 sq in ), Oct. 7, 1912, out of the Punjab division. Seat of government; cutton mftg, and other imptindustries, p. 197,828; ancient cap. of Mogul

Dell or Deal, R in co.'s Limerick and Cork, trib. (26 m.) of the Shannon.

(26 m.) of the Shannon.
Deliyo, yet, in Algeria, p. (of dist.) 35,000.
Delmenhorst, A in Germany, on R. Delme, nr. Bremen; cork-cutting, jute, etc.; p. 76,570.
Delphi, anc. A in Phocs, Greece, on the Corinthian G. at ft. of Mr. Parnassus, the modern Kastri; site bought for excavation of antiquires by France in

Delpios, A. nr. Lima, Oregon, U.S.A., p. 4,000.
Demawepć, min. 22,000 ft.; lughest peak in Elburz
Mins., N. Persia; volcanic. [of the Blue Nile
Dembea, L. in Abyssinia; 60 m. by 25 m.; the source
Demerara, R. (200 m) in Brit. Guiana, falls, into Atlantic at Georgetown.

Demir-Hissar, t. nr. Seres, European Turkey, p. Demir-Hissar, t. nr. Seres, European Turkey, p. Demirkapu, "The Iron Gate," rocky defile, through which the Danube rushes, in the Transylvanian Alps. Demmin, t. in Pomerania, Prussia, nr. Stralsund, p. 12,000. f6.coo.

Demonte, fort. 1. on R Stura, Italy, lead mines; p. Demotica, 2. nr. Adrianople, Turkey, p. 10,000.
Denain, 4. Nord dep., N. France, nr. Douay; colliery

Jenain, Z. Nord esp., N. France, M. Doday; comery dist; p. (conimune) 23,500.

Denbigh, bor. in N. Wales, p. 6,892; cap. of co. (area 662 sq. m., p. of co 144,796) agr., min. and quarrying.

Denby, wit't Cumberworth, a Yorks, township, 8 miles W. of Barnsley, Eing. p. 3,681.

Dendera, viii. on R. Nile. Up. Egypt, the ancient Teather, teample of Halby.

Tentyra, temple of Hathor.

Dendermonde, or Termonde, t. on Dender R., E. Flanders, Belgium, pr. Ghent, p. 0.000.

Denholme, t. in W.R. Yorks, Eng., pr. Bradford, p.

2.971.
Denia, spt. Almeria, Spain, 45 m. N.E. of Alicante; cyports raisins, grapes and ontons, p. 12,500.
Deniliquin, t. on Edward R., N.S. Wales, p. 4,800.
Denilson, c. on Ked R., N. Texas, U.S.A., cotton

Denison, c. on Ked K., N. 1exas, U.S.A., cotton depôt, p. 12,000.

Denizli, f. in Aidim vilayet of Asia Minor; beautiful gardens, "the Dannascus of Anatolia," p. 17,000.

Denmark (area 14,809 %). m., p. 2,800,000), kingdom in N.W. Europe, consisting of pen. of justimul and isls. in Baltic, chiefly agr.; cap. Copenhagen (q. w.).

Denny and Dunipace, burgh of co. Strung, Scotl; iron and chemical factories, p. 5,164.

Dest du Midi, min. (p. 798 ft.) in the Valan Alps.

Denton, f. nr. Manchester, Lancs, Eng., left hat makings. p. (with Haupilton) 10,880., abo r. nt.

making, p. (with Haughton) 10,850, 150,5, 10, Dalias, Texas, U.S.A., p. 5200.
D'Entreasteaux Isls., Brit. group off S.E. New Gunea; D. Point, a cape at S.W. extremity of

Denver, "the Queen c. of the Plains," on the E. slope of Rocky Muss., cap. of Colorado, U.S. A., on South Platte R., in Arap.doe co.; seat of University and

many important industries, p. 220,000.

Deoband, t. N.W. P., India, Meerut div., p. 23,000.

Deodar, sm. native state, Gujerat, Bombay, India,

area 440 sq. m., p. 24,000. Deogarh, t. in Santal Parganas dist. of Bengal, India; numerous temples, a place of pilgrinage, p. 8,000.

Deori, t. Nagpur, Cent. india, ir. Sagar, p. 7,500.

Deptford, t. on Thanies in S.E. dist. of London, Eng.,

Deragond, t. was a manus. Deragond, t. m. p. 100,498.

Dera Ghazi Khan, t. W. side of Lr. Indus, in the Derajat div. of the Punjab, India, havdsome mosques, p. 30,000; also name of dist., area 5,608 sq. m., exports wheat and inugo, p. 445,000.

Lera Ismali Khan, t. m. Punjab, India, Derajat div., large bazaar for Afghan traders, p. 27,000; also name

of dist., area 9,440 sq. m., exports wool and wheat, p. 528,000. [sq m, p. 1,750,000.
Derajat, drv. in W. of the Punjeb, India, area 22,315
Derbent, or Derbend, cap, and port of Dayhestan, on
W. side of Caspian Sea, incorporated with Russia in

1813, p. 16, ero.

Derby, cap. on Arbysh., Eng., on R. Derwent, centre of M.R. system. p. 123,433. Derbyshire co., hilly and rich in mus. rals. area 1,203 ed. ms, p. 63,562.

Derby, t. in New Haven co., Connecticut, U.S.A., on

Derby, i. in New Haven co., Conjecticut, U.S.A., on Housatonic R., p. 12,500.

Dercham, East, i. nr. Norwich, co. Norfolk, Eng.; Derg, Lough, in basin of R. Shannon, W. Iroland, separating Galway and Chire from Tipperary; also sm. I. in co. Donegal, with cave on an isl., much visited by Roman Catholic pligrims, and known as "St. Patrick's Puryatory."

Derma, 59t. Barca, N. Africa, p. 6,000.

Derwent, R. in Derbysh. (60m.); also in Yorks (57 m.); also in Cumberland (32 m.); also a tributary of the Tyne (30 m.); all in Eng. Also the largest R. m. Tasmanis, flowing (30 m.) to Storm Bay. [3 m. long. Derwentwater L. in Cumberland, Eng., nr. Keswick, Desagaudero, R. in Bolivia, S. America (180 m.), Derwentwater L. in Cumberland, Eng., nr. Keswick, Desagaudero, R. in Bolivia, S. America (180 m.), outlet of L. Titicaca; also R. in Argentina, from the Andes (200 m.) to Urre Languen; also the name of the plateau in S. Peru and W. Bolivia between the Andes ranges, the highest tableland in the world except that of Tibet.

Desirias, rocky isis. S.E. of Madeira
Desirade, isi. Fr. W. Indies, nr. Guadeloupe, area ro sq. m., p. 1,700.

Désirade, sr. Fr. W. Indies, nr. Guadeloupe, area 10 SQ, m., p. 1,700.

Des Moines, R. in Iowa, U.S.A., trib. of Mississippi (550 m.) flowing from Minnesota; also c., cap 38 Folico, the largest c. in Iowa, U.S.A., great rly, and mftg. centre, p. 87,000.

Denna, R. trib. of Dineper R., Russia (550 m.) flowing Desotto, c. Jefferson co., Missouri, U.S.A., p. 6,000.
Despoto Dagh, netz. range in Turkey, a branch of the Bulkans, alt. 7,800 ft.

Dessau, t. cap. of Anhalt, on R. Mulde, N. Germany; mpt. trade and industries, p. 55,000.
Detmoid, t. cap. of Lippe, on R. Werra, N.W. Germany; inner, trade and industries, p. 55,000.
Detmoid, t. cap. of Lippe, on R. Werra, N.W. Germany; inner, trade and industries, p. 57,000.
Detroit, ch. c. and 2011 of Michigan, U.S.A.; busy

commercial and industl, centre and great grain mart...

p. 470,000.
Detroit R., channel between L. St. Clair and L. Erie,
U.S.A. (25 m.); separates the State of Michigan
from Ontaino, Canadia.
Dettingen, vst. on R. Main, 15 m. above Frankfort,
Bavara; battle 1943, in which George II. of England
defeated French under Noarlies.
Dettva, mutust. t. in Hungary, nr. Altsohl, p. 17,200.
Deva, t. in S.E. Hungary, nr. R. Maros; imposing
runned fort, p. 3,000.

rumed fort, p. 3,000.

Deventer, c. and old Hanse c. on R. Yesel, Holland;

commercial centre, p. 29,000, flows into Moray Firth, Deveron, R. of Aberdeen and Banf., Scot. (6r m); Devizes, mkt. c. N. Wilts., Eng., mr. Saissbury; engancering works, p. 6,74; eng., f. Saissbury; engancering works, p. 6,74; Scotl. (34 m.), flows past Devonport, 5,96; (fid) and hor, on estuary of R. Tamar, adjoining Plymouth, Devon, hing.; royal dockyards and meal stranger.

and naval sta., p. 81,694.

Devonshire, area 2,605 sq. m., p. 699,739, maritime co. S W. Eng , between English and Bristol Channels: faulous for butter and cider; ch. t.'s Exeter and Plymouth (q.v ).

Dewas, native state in Indore Agency of Cent. India;

area 380 st, m. p. 160.000; cap. Dewas, p. 20.000. Dewshury, mftg. f. W.R. Yorks., Eng., on R. Calder, 9 m. from Levels, p. 53,55; parl. ber. 76,335. Deziul, 7. m. Perssa, on R. Deziul, 7. m. Perssa, on R. Deziul, 7. m. 5. chuster, p. 75,000. Dhar, native state in Biopowar Agency, Cent. India: area. 7,90 sq. m., p. 75,000; cap. Dhar (a centre of oppum trade), p. 15,000.

Dharampur, native state in Gujarat div. of Bombay.

India; area 794 sq. m., p. 125,000; also c. State cap., 5,000. Dharwar, / in Bombay, 70 m E. of Goa, cap. (p. 34,000)

ot Carnatic dist (area 4,603 sq. m., p 1,114,000). Dhawalaghiri, min. m Hundayas, N. India, alt.

Dhawalaghiri, mth. n. Hundayas, N. India, alt. 26,226 ht. 26,226 ht. 26,227 h

Dhuha, f. Bombay, administrative hidors, of Khandish dist.; cotton industry; p. 20,000.
Diamantina, f. in Munas Cerues State, Brazil, centre of diamond dist; p. 73,000.
Diarbekir, f. on R. Tigris, Asiatic Turkey, the anc. Amida, oli walls, gates and citadel, great mosque and pilathal remains; p. 25,000; in stock-raising and tertile agr. dist.
Dibrugarh f. in Lakhimpur dist. of Assam, Brit. Industrial and recognitions of the properties of th

Dibrugarh f. in Lakhimpur dist. of Assam, Brit. India; coal and tea exported; p. 10,000.
Didoot, f. and sy. 1146. Berks, Eng.; p. 1,140.
Didsbury, f. nr. Stockport, Lancs., Eng.; p. 1,140.
Didsbury, f. nr. Stockport, Lancs., Eng.; p. 1,500.
Diedenhofen, fort. f. of Germany, in Alsace-Lurranne; wme, fruit, etc.; capitulated to Prussia in 150, p. 1,000. [Ocean, the largest of the Chagos group. Diego Garcia, Brit. 114, and coaling sta. in Indian Diego Starca, Brit. 114, and coaling sta. in Indian Diego Starca, Proc. 1000 n. N. coast Madagascar; p. (about) 5,000.
Dieppe, 574, and wat. 114, on coast of France, 35 m. N. of Rouen; lace, woollen and ceranuc manuf., p. 22,000.

Diez, t. in Bharpur State, Rajputana, Cent. India;

Dig. t. in Bharpur State, Rajputana, Cent. India; p. 16,000.
Digby, port of entry, Nova Scotia; p. 2,000. [p. 20,000.
Dignano, t. in Istria, nr. Pula, Austria; vineyard dist.; Digne, t. dep. Basses-Alpus, France, nr. Aix; cathedral, p. 7,000.
Digoin, t. nr. Charolles, dep. Saône-et-Loire, France; Dillong R., the name given to the R. Brahmaputra in its middle course through Assam.
Dijon, strongly fort. frontier t. E. France, dep. Côted'Or, the Roman Castrum Divionense; cathedral, bathing, and casino; manu., p. 77,000.
Dillingen, t. on R. Danube, Bavaria, nr. Augsburg p. 6,000.

p. 6,000. Dilolo, L. of S. Cent. Africa, source of R. Zambesi.

Dimboola, f. in corn-growing dist. of Victoria, 250 m. N.W. of Melboome, p. 4,400.
Dimajour, dart. Cooch Behar div., Bengal, India; area 4,116 sq. m., p. 2,300,000; cap. Dimajour, c. severely damaged by earthquake in 269, p. 12,500.
Diman, f. indep. Cote-du-Nord, France, m. St. Brieux;

mineral waters, p. rr, 500.

Dinant, t. fortif on R. Meuse, prov. Namur, Belgium; famous for brass and copperware, p. 7,500.

Dinapur, mikt. t. on R. Ganges, Patna dist., Bengal,

Dinapur, minr. z. on k. Ganges, rama cust., sengul, India, p. 45,000.
Dinaric Alps, min. range on E. side of the Atinutic, between Dalmatua and Bosnia; highest pt., Mt. Dinara (6,007 ft.).

[nr. Dolgelly, p. 1,000.
Dinas-Mowdewy, old mkt. t. Merloneth, N. Walea, Dindlgul, t. in Madura div. of Madras, Brit. India; cigar and tohacco factories, p. 25,000.

Dindings, The, Brit isks, and terr, on W. coast of Malay pen, in the Straits Settlements.

Dineir, sml. & in Asia Minor, nr. the sources of the R. Mæander, built amidst the ruins of the Celænæ-Apamea, p. 1,500. [2,000.

Dingte, spt. and b. S.W. coast Ireland, co. Kerry, p.

Dingwall, co. t. of Ross, Scotl., one of the Wick

Dingwall, co. 4. of Ross, Scotl., one of the Wick Burghs, p. 2,699.

Dingwall, co. 4. of Ross, Scotl., one of the Wick Burghs, p. 2,699.

Diomede Isla, two sm. grantte fils. a mile apart in Behring Strait, inhabited by Esquimaus (85 in 1500); boundy. line Russ. and U.S.A. possessas, passes between them.

I and steel works, p. 13,500.

Diosgyor, mkt. 4. of N. Hungury, m. Miskotz, jion Dirk Hartog, L. off W. Australia, Shark Bay.

Dirschau, 4. nr. Dantzig, W. Prmsia, on R. Vistuta; railway works, sugar factories, etc., p. 12,500.

Disco, Danish 154. off W. coast Greenland, in Baffin's Bay, contains harbour of Godhawen.

Dismal Swamp, morress in S. Virginia and N. Carolina, U.S.A.; contains Lake Drummond, and extends 30 to 40 m. S. from nr. Norfolk.

Dismalt, t. Norfolk, Ing., on R. Waveney, p. 3,760.

Ditching, \$\sigma\text{mp}, m. Birighton, Sussex, Fng., p. 1,750.

Dittersbach, 4. nr. Waldenburg, in Silesia, Prussia colheries and match factories, p. 10,000.

Dittershach, t. nr. Waldenburg, in Silesia, Prussia: collieries and match factories, p. 10,000.
Dittons, The, par. of Surrey, Eng., nr. Kingston-on-Thames (with Esher), p. 13,150.
Ditt, Portuguese 52t. and 12t. off coast of Kathiawar, Bombay, India; area 20 m., p. 13,500.
Dixmude, t. on R. Yer, W. Flamiers, Beignim, Dixon, t. on the Rock R., Lee co., Illinois, U.S.A., p. 8,500.
Dixon Bntrance, chan, between Queen Charlotte Isl. Dixful, t. in Khurristan prov. on R. Dizful, trib. of Karun R., Persia; considitander, Java, of same name; area 1,191 sq. m., p. (of t.) 60,000 (of Res.), 500,000.
Dixitrov, or Dmitroff, industri. t. Cent. Russia, Dmitrovsk, t. in the govt. of Orel, Russia, on R. Nerossa, p. 7,240.

Neroosa, p. 7,240.

Daieper, R. (length over 900 m.) of Russia, rises in govt. Smolensk and flows into the Black Sea; con-

nected by canais with Raltic, etc.

Dnieprovak, t. in govt. Taurus, Russia, on R. Dneiper, Drieprovsk, I. in govt. Taurus, Kussa, on R. Drieper, p. 8,500.

Land flows into the Black Sea, Dniester (700 m), of W. Russa, rises in Carpathian Doah, dirf. between "two rivers," Junma and Ganges, in N.W. Prov., India.

Dobbo, I. in Aru Isls., Dutch New Guinea, p. 2,500.

Debeta, I. Saxony, on R. Mulde, nr. Leipsic; manuf.

Döbeira, f. Saxony, on R. Mulde, nr. Letpsic; manur, and trade; p. 17,500
Dobrudia, or Dobrudscha, Rommanian disf. S. of and including delta of Dambe and Black Sea; area 6,102 sq. m. Traversed by anc. wall of Trajan.
Dobsina, f. nr. Kassa, N. Hungary; curious cave comtaining ice-field of two acres; p. 5,250.
Docs, R. (400 m.), of Brazil, flows to Atlantic.
Dochart, Loch, and R. of Perth, Scott, draining through Glen D. to Loch Tav.
Dodwerth, mining f. nr. Barnsley, W.R. Yorks, Eng., Dogger Bank, sandbank in N. Sea, between England and Denmark. Valuable fishing ground. Russian Rabie fleneric. Valuable fishing ground. Russian Rabie fleneric.

and Dennark. Variable Shing ground. Russian Battic feet incident, root.

Degliant, t. in prov. Cost, Italy, nr. Mondovi, p. 5,750.

Dogs, Iule of, riverside dist. formed by bend in the Thames, off Greenwich, London, Eng.

Dokad, z. in Panch Mahals dist. of Bombay, India, p.

13,000.
Dokkum, A. in Friedland, Holland, nr. Leeuwarden,
Dol, anc. 4. Brittany, nr. St. Malo, France, p. 4,600.
Dôle, 4. dep. Jura, on R. Doubs, nr. Dijon, E. France,
anc. cap. of Franche-Courté, ceded to France in

anc. cap. of Franche-Comté, ceded to France m 1678; p. 15,500. [aft. 5,500 ft. Dôle, La. min. of the Jura range, Switz, nr. Geneva; Dolgedly, ch. £. of Merionethsl., nr. Barnouth, N. Walles, p. 2,160. [Hills. p. Lefy. Dollar, f. in Clackmannan, Scott., at base of Ochil Dollar Law, min. nr. Pechles, Scott., att. 2,680 ft. Dollar Law, min. nr. Pechles, Scott., att. 2,680 ft. Dollar Law, min. nr. Pechles, Scott., att. 2,680 ft. Dollar Bay, inlet at mouth of R. Enis, Germany, on Dutch frontier.

Doinja-Tuzla, 2. on Julia R. in Bosnia, Austria-Hungary; sait indust.; p. 10,500, all Mahomedans. Dolores, 7. in the Argentine, Huenos Ayres prov., p. 10,000; also R. in Utah, U.S.A. (250 m.), affi. of Rio Grande.

Domfront, A. nr. the Varenne, in Orne, France, p. 4,850.
Domfnica, Brit. Leewart is L. West Indees, area 2,975
sq. m., p. 30,000. Exports, line-juice, sugar, cacao,
fruits, and spices; cap Roseau

sq. m., p. 30,000. Exports, lune-juice, sugar, cacao, fruts, and spices: cap Roseau
Dominican Respublic, independent negro State in Haiti, West Indies, area 20,000 sq. in, p. 300,000.
Produce, sugar, tobacco, coffee, etc.; cap. Santo Dominico.
Cirevecceur.
Dommel, R., of Holland, trib. of the R. Maas at Domo d'Ossola, d. Piedmont, N. Italy, nr. the Simplon, p. 4.200.
[birthplace of Josm of Arc. Domremy, 201. on R. Meuse, Vosges dep., E. France; Don, R., in Aberdeensh., Scotl. (Ez m.); abo R. in W.R. Yorks, Hng. (70 m.), trib. of R. Ouse; also R. to W.R. Yorks, Hng. (70 m.), trib. of R. Ouse; also R. of France, dep. Manne-et-Lore (40 m.); also large R. of W. Russia (7,345 m.), falls into Sea of Azof. Don, Province of the, Russia.—(See Cossacks.)
Donaghadee, 19t. co. Down, Ireland, nearest pt. to Scotland, p. 2,000 [par. 5,500.]
Donaklsonville, f. Louisiana, U.S. A., on R. Mississippi, Don Benilo, t. prov. Badajoz, Span; good trade in wheat, wme, fruit, etc.: p. 75,500.
Doncaster, mity. t. W. R. Yorks, Eng., on R. Don; rly wks and famous race-currse, p. 30,500.

rly wks and famous race-course, p. 30,500.

Donchery, anc. 7 on R. Meuse, nr. Sedan, Ardenmes dep., France: great battle between French and Bayarians here, 1870, followed by the capitulation of

Bayarans nere, 1970, ionowed by the capitulation of Napoleon at Sedan.

Donegal, 597. W. coast, Ulster. Ireland, and cap. of co. D. on D. Bay, p. 1,500. Area of co., 1,870 sq. m.; rugged coast, mountainous surface; agr. and stock-keeping; p. (decreasing) 168,420.

Doneralle, inkt. / co. Cork, Ireland, on R. Awbeg,

Domeraile, inkt. / co. Cork, Ireland, on R. Awbeg, iir. Mallow, p. 1,000
Dometz, R. of S. Russia (400 m.), trib. of R. Don. Dongola, New and Old, t.'s on banks of R. Nile, in Upper Nubia, p. 20,000.
Donnington, inkt. d. Shropshire, Eng., inr. Newport, Donnybrook, S.F. tathurb of Dublin, Ireland, on R. Dodder, p. 15,000; formerly fanous for its fair, and the riotous fum associated therewith, suppressed m. 28.00.

Doobant, R. of Mackenzie and Keewatin dist., Canada,

rising in Wholdiah L. and draining Doobant L. into Doobooka, Industri. f. on R. Volga, Russia, nr. Saratov, Doon, R. Ayrsh., Scotl., flows from Loch Doon (26 m.) to Firth of Chyde.

to Firth of Chyde.

To Clyde.

(at D. Bay.

Doonbeg, R. co. Clarc. Ireland, falls into the Atlantic

Dora Baltea, R. in Piedmont, N. Italy.

Dorama, I. in Arabla, nr. Doreych, p. 7,600.

Dora Ripaira, R. Italy, trib. of R. Po, flowing (60 m.)

from the Cottam Allis past Turin.

Dorchester, co. d. of Dorsetsh., Eng., on R. Frome,

p. 9,842; a wl. 9 m. S.E. of Oxford; also pt. of entry,

New Brunswick, on Petitoodiac R.

Dordogne, def. S.W. France, cap. Perigueux; also

R. (200 m.) which joms Garoane to form the

Gironde.

Dordrecht. or Dordt. (200 m.)

Orronge.

Dordrecht, or Dordt, t. (p. 48,000) on Maas R., nr. Rotterdam, Holland: timber trade; also Dutch t. in

C. Colony, battle Dec. 30th, 1809.

Dorst, per. on Loch Ness, inverness, Scotl., p. 1,200.

Dorling, mkt. t. and residential dist. Surrey, Eng.,

p. 7,850.

Dornbirn, f. in Feldkirk dist., Austria, machinery mftg.,

p. 14,500.

Dornoch, co. £ and wat. £l. of Sutherland, Scotl., on D. Firth; one of the Wick Burghs, p. 741.

Dorohol, or Dorogoi, £. on R. Shiska, Rounania, good

transit trade, p. 13,000, more than half Jews. Dorp, mftg. 4. Rhen. Prussia, on R. Wipper, nr.

Cologae, p. 14,000.

Dorpat (now Yurley or Jurjey), £ in Russ.; prov. of Livonia, on R. Embach; university and observatory; formerly one of the Hanse towns; p. 43,000 (mostly Germans).

Oermans, Dorset (988 eq. m., p. 223,274), co. on S. coast Eng.; mainly agr.; co. t. Dorchester (q.v.). Dortmund, busy commercl, yet anc. t. of Westphalia, Germany, in colliery dist., pr. Dusseldorf, p. 275,000. Doual, or Douay (fort.) L. nr. Lille, N.E. France; glass, bell-tounding, arsenal, etc., p. 37,000 Douarnenez, spr. 2700, Finistère, N.W. France, on D. Bay: p. 22,000.

D. Bay p. 12,000.

Doubs, def. E. France, traversed by the Jura range and the R. Doubs, area 2,022 sq. m., chiefly agr.; p. (declining) 297,000; watchinkg. industry; cap. Besançon.

Douglas, cap. of Isl. of Man, 75 m. W. of Liverpool, Eng.; a favourite wat. pl.; p. (with subs.) 22,500.

Doune, vil. on R. Teith, Perthsh., Scotl., with castle,

p. e93.

Dour (400 m.), R. Spain and Portugal, enters Atlantic below Oporto. Also name of a former Portuguese prov. now divided into Coimbra, Aveiro, and Oporto dista. [Marsan.

Ousse, R. (55 m.) in France, joins Midou at Mont di Dove, R. of Derbysh, and Staffs, Eng., trib. of Trent; flows (45 m.) through a beautiful dale. Dover, old Cinque port on English coast, Kent co.; nearest pt. of passage to France, the Strait of D. being only at m. wide. Strongly fortified. Splendid attent to be been served on the control of the con only 21 in. wide. Strongly hornical Specials and antional harbour constructed, cost £4,000,000; p. (of extended bor.) 43.647. Also name of t. on Cocleco R., New Hampshire, U.S.A.; p. 13.500; as well as of smalr, industri. L's in New Jersey, and Dolaware,

U.S.A. [p. 3,850. Doveroout, wat. \$1. nr. Harwich, Essex, Eng.; Doverfield, plateau, Norway; a spur of the Scandinavian mins, separating N. and S. Norway, al. 7,570 ft. Dowlats, colly. dist. Merthyr Tydvil, S. Wales; U. 17,800.

Dowlais, colly. dist. Morthyr Tydvil, S. Wales; p. 17,800.

Down, maritime co. in S.E. Ulster, Ireland; area 957 8q. m.; p. 304,580; industries, agr. and fishy, except in neighbourhiood of Belfast, where are factories; cap. Downpatrick.

Downbam Market, t. on R. Ouse, Norfolk, Eng.; Downpatrick, co. t. of Down, on R. Quoile; p. 3,000.

Downs, natural harbour of refuge for shipping between Kent coast and Goodwin Sands in the English

Downs, North and South, two chiefly pastoral broad chalk ridges in S.E. Eng.; N. Downs ending at Dover and S. Downs at Beachy Head; fine grazing

ground for sheep.

ground for sneep.

Downton, f. and par, with agr. College, nr. Salisbury,
S. Wilts, Eng., on R. Avon; p. 1,100. [p. 2,810.

Doylestown, f. nr. Philadelphia, Penn., U.S.A.;

Drachenfels, mtm. ph. on the Rhine, the steepest of
the Siebengebirge range, nr. Königswinter, alt.
1,055 ft.; sscended by a light railway; famous cave
of legendary dragon.

Dragasani, f. in Roumania, on R. Olt, fine white
wine dist. p. 4,200. [Toulon, p. 2000.]

Dragasani, ž. in Roumania, on R. Oit, fine white wine dist, p. 4,400.

Draguignan, cop. of Var dep., S.E. France, nr. Drakensburg, or Kathlamba, Mtns., between Natal and Orange R. Col., S. Africa, highest peaks (each over x0,000 ft. alt.) Catkin and Mont aux Sources; railway crosset range by Van Recnan Pass.

Dramberg, £. nr. Cossiin, Pomerania, Russia, p. 5,800.

Dramberg, £. nr. Cossiin, Pomerania, Russia, p. 5,800.

Christiania; exports timber, wood-pulp, paper, etc.; p. 24,800. p. 24,500.

Draperstown, dist. with ry. stn. in co. Londonderry, Ireland, p. (dist.), 1, 30. Trans, or Drave (80 m.), R. trib. of Danube, flows from the Tyrol across Carinthia and Styria, into Hungary, Johning the D. at the town of Essek.

Drenthe, an E. prov. of Holland, on Prussian frontier; area, 1,028 sq. m , p. 125,000; cap. Assen. Dresden, cap. of Saxony, on R. Elbe; military

hardware and heavy iron mftg., flourishing trade,

Drewenz, R. in Prussia, rising S.E. of Osterode,

passes through L. of Drewenz (7 m. long), and after a course of 148 m. S.W. enters R. Vistula, nr. Thorn L. D. is connected by the Elbing Canal

a course of 148 m. S.W. enfors R. Vistula, nr. Thorn L. D. is connected by the Elbing Canal with the Baltic.

Driffield, Great, t. on the Wolds of E. Yorks, Eng., 13 m. from Beverley, oil-cake works, p. 5,576.

Drighlington, industri. t. W. R. Yorks, Eng., 5 m. S.E. Bradford, p. 4,126.

Drin, R. of Albania, flowing (110 m.) to the Adriatic, nr. Drina, R. trib. of the Save, separating Servia from Bosnia, flows 300 m. from its Montenegrm source to about 63 m. W. of Belgrade. [Carrying, p. 3, 500. Droebak, 59t. Norway, on Christiania Flord; timber-Drogheda, 59t. co. Louth, Iroland; considerable trade in agr. prod., salmon, &c.; stormed by Cromwell in 1649. p. 12,425.

in agr. prod., salmon, &c.; stormed by Cromwell in 1649. p. 14495.
Drobobites, & in Galicia, Austria; salt, naphtha, and oil prod., trade in corn and cattle, p. 2000.
Drottwich, & Worcestersh., Eng.; brine baths, salt works, &c., p. 448
Prome, 479. S.E. France; traversed by Alps, and watered by R.'s Rhone, Drome, and Isbre; area 2.533 sq. m. p. 204,000; agr., forestry, silkworm growth, textile industry, cap. Valence. p. p. 3500.
Dromnero, & at foot of Alps, in Coul prov., Italy, p., 790.
Dronnero, in Ming & Derbysh., Eng., between Chesterfield and Sheffield, p. 3,943.
Dronner, France (so m), 171b. of R. Dordogne, Drossen, & nr., Frank(ort-on-the-Otler, Prussia, p. 5,500.

Dronthelm. See Trondhjem.

Drossen, e. nr. Frankfort-on-the-Oder, Prussla, p. 5,500.

Droyladen, é. Lancash. Eng.; cotton-spinning suburb of Prestwich div. Manchester, p. 11,500.

Drumclog, moor nr. Strathaven, W. Lanark, Scotl.; Covenanters' victory, 1670. [Sydney, p. (dist.) 7,500.

Dubba, 4. on Macquarrie R., N.S.W., 225 m. N.W. of Dublin, metropolitan e. and eo. of Ireland, p. (of co.) 476,500; (of c.) 300,372; on R. Liffey at its entrance to Dublin Bay: cathedral, University, castle; spirit and chemical produce, stout, glass, &c.; also t. same name in Texas, U.S.A., p. 2,500.

Dubools, bor. of Clearfield, co. Penn., U.S.A., in coal Dubools, See Doobooks. [mining dist., p. 10,000.

Duboona, £ on R. Dnieper, nr. Mohley, Russla, p. 7,500.

[P. 10,000.

[p. 10,000.

Dubosary, t. on R. Dniester, govt. Kherson, Russia, Dubuque, c. lowa, U.S.A., cap, of Dubuque co., on Mississippi R.; clothing and carriage factories, p. 38,500. [p. 15,000. Duddeston, N.E. industri. dist. of Birmingham, Eng.,

Duddingston, /. suburban to Edinburgh, Scotl. p. 11,250. [flows (20 m.) to Irish S. Dudentsatd, f. ni. co.'s Cumberland and Lancash, Eng. Duddon, R. in co.'s Cumberland and Lancash, Eng. Duderstadt, f. ni. Göttungen, Hanover, p. 4,750. Dudley, min. and mftg. f. Worcestersh., Eng., 8 m. N.W. Birmingham, p. 57,092; also t. Mass., U.S.A., p. 3,100.

Dudweller, t. nr. Saarbrücken, Prussia, m ronworks.
Duffield, t. on K. Derwent, Derbysine, Eng., p. 2,750.
Dulsberg, t. Rhenish Prussia, in Ruhr coalfield, nr.
Dusseldorf; extensive iron and other industries.

[Eng., p. 29,245.

Dasseldorf; extensive iron and other industries, p. 230,000.

Dukinfield, townskip in bor, of Stalybridge, Lancash, Dulcigno, anc. c. in Montenegrin terr, formerly belonging to Turkish Albama; passed by Berlin Treaty, 1860, p. 5,000.

Duken, c. in Prussla, nr. Crefeld, Rhine prov.; textile Duluth, borf at W. end of L. Superior, Minn., U.S.A. great trade in grain, timber, and fron ore, p. 78,000.

Dulwich, suburb of S. London, Eng.; residentl. and educati.; p. (parly, div.) 201,732.

Dumangas, c. in Panay, one of the Philippine Isls., p. 26,000.

Dumbartonsh., a western co. of Scotl.; area 267 sq. m., agr., stock-raising, ship bldg., chemicals, dyeing

paper-making, mining, quarrying, etc.; p. 139,831; co. t., Dumbarton, one of the Kilmarnock burghs, spt. on R. Leven, nr. its confluence with the Clyde; p. st.985. [tribs. to the Danube. Dumbrowitza, R. in Roumania, Joins the Arijs, both Dum Dum, f. and contonnent Bengal, India, 44 m. from Calcutta; p. (including nilitary) 4,750. Dumfreshire, maritime co. S. Sootland, on Solway

Firth; area r.o68 sq. m., p. 72,824. Northern pts. mtns., much of the remainder pastoral; lead ore, coal, sandstone; co. t. Dunifries (burgh) on R. Nith; p. 19,077. [p. 17,840.]
Dumraom. A. in Shahabad div., Bengal, India;
Dana, or Southern Dwina, R. of Russ., rises in govt.
of Tver, and falls into S. at Riga (600 m.); navigable most of its course

most or its course.

Minaburg, or Dvinak, t. (ftd.) on R. Dlina, govt.
Vitebsk, Russia, p. 80,000.

Dun Ban Point, t. on Cantire, W. coast Scotl.

Dunbar, *pt. co. Haddington, Scotl., Scots defeated
here by Edward I. in 1296, and by Cromwell in 1690;

p. 3,346.
Dunblane, mkt. t. on Allan Water, Perthsh., Scotl. 5 m. from Stirling; anc. cathedral, p. 2,978.
Duncansbay Head, promontory of Caithness, the N.E. extremity of Scotl.

Centre; p. 13,128.

Light and code Co. Louth. Ireland: impt. ry. extremity of Scotl. [centre; p. 13,128.

Dundaik, spt. and cap. co. Louth, Ireland; impt. ry.

Dundas, c. Wentworth co., Ontario, Canada, at head of Burlington Bay, p. 3,500.

Dundas Isls., sm. group off the E. coast of Equatorial

Dundas Stratt, separating Melville Isl, from Cobury

pen, in N. Australia.

Foreign Scott on F. of

pen. in N. Australia.

Dundee, 3pt. and niftg. t. Forfarsh., Scotl. on F. of
Tay, so m. N. Edinburgh; p. 105,006; also coal
mining t. in N. of Natal; also p. of entry, Huntingdon co., Quebec, Canada, p. 1,670.
Dundrum Bay, inited on W. coast of co., Down,
Ireland, 9 in. wide; also sm. spt. on B. [p. 6,000.
Dundrum agran, t. in Etah dist. N.W. prov., India,
Dunedin, cop. of Otago and chief t. in S. Island, N.
Zeal; p. 54,000. Fine bldgs., institutions, and good
trades. trade.

Dunfanghy, mkt. and. spt. £., co. Donegal, Ireland,

Dunfermline, £. Fife, Scotl., one of the String Burghs,
table line and cover factories; tomb of Robert

Bruce discovered here in 1818; p. 28,102,

Dungannon, £ co. Tyrone, Ireland, the anc. seat of

the O'Nellis; p. 3,500.

the O'Neills; p. 3,600.

Dungaryun, native state of India, Rajputana Agency; very hilly; area 1,440 sq. m., p. 100,000; lessened by famine of 1890-1900 by 90 per cent. [ingl 4,800.

Dungaryan, 59t. co. Waterford, Ireland; p. (decreasDungeness, hd. on S. coast of Kent, Eng., 10 in. S.E. of Kye.

France and the control of the contro

Dunmore, min. t. nr. Scranton, Pa., U.S.A., p. 14,000.
Dunmow, Great and Little, Essex, Eng., on R. Chelmer; p. (combined) 3,120.
Dunnett Head, *prom. of Catthness, most N. pt. of Dunnottar, *par. on Kincardine coast, nr. Stonehaven, Scotl.; runed castle, p. 1,750.
Dunnolly, mining Ł. Victona, Australia, p. (dist.), 1,750.
Dunnolly, mining Ł. Victona, Australia, p. (dist.), 1,750.
Dunnolly, maing Ł. Victona, Australia, p. (dist.), 1,760.
Dunnolly, maing Ł. Dunker, Dunker, of Scotla, p. 2,000.
Dunwoll, *pherollo, 1,760.
Dunnolly, *pherollo, 1,760.
Dunnolly, *pherollo, 1,760.
Dunnollo, *pherollo, 1,760.
Dun

Duppel, t. in Schleswig-Holstein, Prussia, entrenched and fortified and the scene of much fighting

between Danes and Germans before the fortification of Kiel.

Others, bor. of Allegheny co., Penn., U.S.A., on the Monougahela R.; iron mfg., p. 10,000. Duquoin, mdustri. & in Illinois, U.S.A., p. 5,200. Durance (217 m.), R. S.E. France, 17th. of Khone, the

anc. Druentia, a nun, torrent rising at the Gondran Pass in the Hautes-Alpes dep., and rushing down to irrigate wast tracts of land in Vaucluse and the Bouches du Rhône.

Bouches du Rhône.

Durango, statte of Mexico, area 36,020 sq. m.; rich as to mining, agr. and stock raising, p. 450,000; cap.

Durango, c., lias a fine cathedral, p. 35,500.

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Durango, furle, p. 00; libanian coast of the Adriatic; oilve oil and corn, p. 5,000.

Durban, p. 40; of Natia and chf. com. t. in S.E. Africa, p. 59,000 (hearly one-half Europeans).

Durcal, pd. nr. Granadas, spain, p. 27,500.

Durbam, cathedral c. on R. Wear, cap. of co.

Durham, n. E. Eng.: university and mifg., p. 17,500.

Area of D. Co., 1,0135, m., many collieries and other industries, besides agr. and stock-keeping p. 1,370,071.

Also Durham, t. cap. of Durham co. N. Carolina, U.S. A. tobacco factories, etc., p. 12,000.

Durrenstein, vdl. on the Danube R., Lr. Austria; Richard I. unprisoned in castle here.

Richard I. imprisoned in castle here.

Durrisdeer, par. in Dumfriessh., Scotl., nr. Thornhill,

Dursley, mkt. t. in co. Gloucestersh., Eng., p. 2,400.

Dusseldorf, t. on R. Rhme, Prussa: one of the handsomest and most flourishing c.'s in Germany; iron foundries, machy,, and other factories; p. 350,000; art and educatl. centre.

Dutch Rast Indies.—(See Malay Archipelago.)

Dux, t. in the lignite coalfield of Bohema, Austria;

p. 12,000.

p. 12,000.

Dwaraka, sacred Hindu c. of Gujarat, British India, containing shrine of Krishna, p. 5,000.

Dwina, R. (N) flows to White S. at Archangel, and is formed by the junc. of the Suchona and Vitchegda R.'s in the Vologda govt. of Russia. It flows fielding the course of the Suchona) for 1,000 m.

(including the course of the Succious) so, specific (See Duna )

Dysart, 594. Fife, on F. of Forth, Scotl., (one of the Kirkcaldy Bunghs), p. 4,797, of parly, burgh, 11,500.

Dzialoszice, 4, on R. Warta, Poland, p. 4,250.

Dzialoszice of Jungaria, broad trench leading to the Mongolian plateau from the lowlands round L., Raitzat, formerly an indert, state now belonging Balkask: formerly an indept. state now belonging partly to Russian Turkestan, and partly to the Chinese

R

Eaglehawk, t. Victoria, ur. Bendigo c. and gold

mines; p. 8,500. the Rio Grande, 140 m., in S.W. of San Antonio, Texas; impt. ry. junction.

Baglesfield, vii. co. Dunifres, Scotl., nr. Kirtlebridge.

Baglesham, vii. co. Renfrew, Scotl., nr. Gissgow; Eaglesham, vi. Cu. Seminor. [61,835.
Ealing, t. Middx., Eng., suburban to W. London, p.
Earlestown, mifg. t. S. Lancs, Eng., nr. Warrington;
p. 8,000. [Erolidoune; p. 7,796.
Earlston, vil. co. Berwick, Scott, formerly called
Earn, R. Perthsh, Scott, (46 m.) issues from Loch
Earn 66 m. long) and falls into the R. Tay.

Rarnalaw. mountns. dist of Otago, S. isl., N.Z.;

Earn (6) m. long) and falls into the R. Tay.

Barnslaw, mountns. dist of Otago, S. isl., N.Z.; lighest peak, 9,50 ft.

Bascale, st. off W. Argylish, Scotl., nr. oban, slate Basingwold, t. in agr. dist., N.R. Yorksh., Eng., nr. Thirsk, p. 2,100.

Basky, vii. co. Sligo. Ireland, on R. Easky, nr. Easley, t. S. Carolina, U.S.A., nr. Greenville, p. 3,500.

Bast Africa.—(See Brit. B. Africa; also German and Portuguese B. Afr.) (Porfolk and Suffolk, Eng. Bast Angella, anc. name of the dist. comprising East Barnet.—(See Barnet.)

Bast Darnet.—(See Barnet.)

Bast Barnet.—(See Barnet.)

Bast Barnet.—(See Barnet.)

Bast Barnet.—(See Barnet.)

Bast Barnet.—(See Barnet.)

Bast Cage, externe N.B. pt. of Asia; also casterne extremity of New Guinea.

Bast Cowes, Isle of Wight.—(See Cowes.)
Bast Dereham, t. Norfolk, Eng., p. 5,729.
Baster Isl. (or Wahu isl.), in Pacific, W. of Chill; Eastern Arch.—(See Malay Arch.)

Eastern Roumelia.—(See Bulgaria.)

East Farnham, t. in Bronn co., Quebec, Canada, p.

East Grinstead, mkt. t. E. Sussex, Eng., p. 7,000.

East Haddam, t. in Connecticut, U.S.A., p. 3,000.

East Ham, bor. Essex, Eng., suburban to E. London,
p. 133.504.

East Ham, vtl. Cheshire, Eng., nr., entrance to Man
Easthampton, t. in the Connecticut valley, Hampshire
co., Mays, U.S.A., p. 6,000. the Dr. 7,140.

East Hartford, t. of Hartford co., Connecticut, U.S.A.;

East Indies, tern applied to India; Indo-Chana and Bast Indies, term applied to India; Indo-China and Malay Arch. [Miguel co., pa 3,000. Bast Las Vegas, t. in New Mexico, U.S.A., San Bast Liverpool, pottery mftg. t. Olio, U.S.A., on Olio P. p. 2006. Ohio R., p. 20,387.

Bast Linton, or Preston Kirk, par. in co. Haddington, Scotl., p. 877.

Bast London, 59t. Cape Colony, on S.E. coast, p. Bast and West Molesey, Thames-sule dist. of Surrey, Eng., p. 6,500. Easton, 4. on Delaware R., Pa., U.S.A., great ry. centre; p. 30,000; also t.'s Maryland (p. 7,000), and Mass. (p. 4,500), U.S.A. Mass. (p. 4,500), U.S.A.

Bast Orange, t. (residential suburban to New York)
in New Jersey, U.S.A., p. 34,37.

Bastport, c. and wat, p. 4, Maine, U.S.A., on Moose Ist.
in Passamaquoddy Bay, p. 5,500.

[p. 15,000.
Bast Portland, c. Oregon, U.S.A., on Willamette R

Bast Providence, t. Rhode Isl., U.S.A., on Seekonk East Province to Rindle 181, U.S.A., on Seeking R., p. 14,500. [Derg (p.w.).

East Prussia, prov. of Prussia, Germ.; cap. KongsEast Reiford, infig. t. in co. Notts, Eng., p. 22,500.

East River, channel between New York and Brooklyn,
U.S.A. [St. Louis, extensive dockyards, p. 58,537,
East St. Louis, c. Ill., U.S.A. on Mississippi, opposite

East Stonehouse, t. Devonsh, Eng., adjoining Plymouth and Devonport. p. 12,750. Bast Stonehouse, t. Devonsh. Eng., adjoining Plymouth and Devonport, p. 13,754.

Bast Vale, t. Staffordsh., Prig., nr. Stoke-on-Trent, Bast wood, indiviri, terr. in: Notingham, Eng., p. 4.50a.

Bau Claire, t. Wis, U.S.A., at head of Chippewa R., saw mills and timberyards, p. 1, 50o.

Faux Bounes, Les, west M. in Fronces, nr. Baux Claimber, and M. French Pyrenees, nr. Baux, M., in Palestine, opposite Gerizim (modern "Johel Estamiyah"), all. 2,96 ft Capt.

Johel Estamiyah "J. all. 2,96 ft Capt. Regulation of the Regulation of the Managard, p. 10 ft. M. M. Staffer, and cost, p. 50,550.

Levissian p. 2,50.

Eberswalde, industri. t. on the Finow Canal, nr. Berlin, Eboe, or Aboh, t. Guinea, W. Africa, on the Niger, p. 5,000. p. 6,000. [p. 11,500. Bbobl, or Evoli, 4. Italy, in Salerno, 44 m. S.E. Naples, Ehro, R., N.E. Spain (440 m.), flows to Mediterranean from Cantabrian Mtns. Bbwy, R. of Moamouth (24 m.), Eag., trib. of R. Usk. Beckerechan, vil. Dumfries, Scotl., birthplace of Thomas Carlyle. silk-throwing, fustian, ginghams, etc., p. 41,046. Beclesali Bierlow, t. W.R. Yorks, Eng., suburban to Sheffield, p. 64,000.

Reclessield, r. W.R. Yorks, Eng., 5 m. N. of Sheffield; Recelesfield, Z. W.R. Yorks, Eng., 5 m. N. of Sheffield; cuttery, etc., p. 36,000.

Eccleshall, mkt. f. in N.W. Staffs, Eng., p. 5.40x.

Eccleshall, wh. f. in N.W. Staffs, Eng., p. 5.40x.

Eccleshall, d. on R. Aire, W.R. Yorks, Eng., seburban to Braddord, p. 8,000.

Eccleston, industri. f. n. Prescot, Lancaseng, p. 6,00.

Echinos, f. in prov. Acarmania and Ætolia, Greece, p. 6,00.

Echinos, f. in govt. Erivan, Russia, with fortified Echternarch, f. Luxembourg, Netherlands, famous abbey, with annual Whitsuntide dencing-procession, p. 4,500.

Echuca, f. on R. Murray, in vineyard dist, Victoria, Echunga, f. in S. Australia, in agr. and gold-digging dist. nr. Adelaide, p. 2,900.

Ecis., anc. f. on R. Jenil, Seville, Spain, the Roman Bets, Loch, sm. L. (6 m. long), co. Argyliah, Scotl.

Eckernforde, A. on the Baltic, Schleswig-Halasein, Germany; good barbour and trade, p. 7,000. Ecuador (178,650 sq. m., p. 1,750,000), Republic, S. America, between Colombia and Peru; coccas the Ecuador (128,600 sq. m., p. 1,750,000), Republic, S. America, between Colombia and Peru; cacae the princ product; cap. Quito. Bda, fort, tennise t, of Sweden, nr. Caristadt; p. 6,000. Bdar, f. Holland, nr. m. N. Amsterdam, on Zuyder Zee; noted for cheese; p. 6,500.

Edar, State in Kathiawar, Rajputana, India, swa 4,006 sq. m., p. 260,000; cap. Edar, 64 m. N. E. of Ahmadabad; p. 6,500.

Eday, tc. do the Orkneys, Scotl. included in Stronsay par, (7 m. long, 2 m. wide), the Oceili of Prolemy. Bddystone, fanuous rock with lighthouse in Eng. Chan, off Plymouth.

Ede, industri. t. nr. Arnheim, prov. Gekleriand, Bden, R. Cumb. and Westmorid., Eng. (65 m.), flows into Solway F.; also R. of Fife, Scotl, flowing (29m.) to St. Andrews Bay; also R. of Scotl, flowing (29m.) to St. Andrews Bay; also R. of Scotl, flowing (29m.) to St. Andrews Bay; also R. of Fife, Scotl, flowing (29m.) to St. Of Bloemfontein.

Edenhope, A. in Victoria, nr. the South Australian Edenkoben, A. nr. Landau, Rhenish Bawaria; p. 5,200.

Edesbaston, S. W. Aist. of Birmungham, Eng.; p. 2,500.

Edgewater, & on Staten Isl., New York, U.S.A.; p. 15,500.

Edgewater, & con Staten Isl., New York, U.S.A.; p. 15,500. p. 15,000. Edgeworthstown, t. co. Longford, Ireland; p. 1,050. Edgware, per. of Middlesex, co. Eng., suburban to Edgware, per. of Middlesex, co. Eng., suburban to London, p. 5,658.

Edinburg, L. in Indiana, U.S.A., p. 3,500; also smale, t.'s in nine others of the U.S.A.

Edinburgh (p. 320,315) cap. of Scotland, on S. side of F. of Forth (2 m. dist.). Has famous University, castle and pal, (Holyrood), also import, industries, and is the literary, as Glasçow is the commercial, centre of Scotland, E. c. is also the capital of co. E. (or Midlotham), area 520 53 m., p. 507,652.

Edithburg, 2021. pl. in S. Australia, G. of St. Vincent; p. 2,400. p. 2,400.
Edmonton, sub. vil. and residential dist. nr. London, Edmontos, swb. wil. and residential dist. nr. London, Eng. p. 0, 0,870; also t. on Saskatchewan R., Alberta, Canada, p. 25,000. Edrom, sar. E. Berwick, Scotl., nr. Duns, p. 1,269. Edwam, wil. in co. Roxburch, Scotl., nr. Kelso. Edwardeburg, or Port Elgin, t. in Grenville co., Ontano, Canada, p. 5,500. Edwardesabad for Dhultpnagar), milit sta Kuszm Val., Punjab, N.W. India, p. 10,000. Edwardsville, t. in Madison co., Ill., U.S.A., p. 4,500; also t. in Lucerne co., Pa., U.S.A., p. 5,750. Eecloo, t. in Belgium, nr. Ghent, E. Flanders, p. 12,000.

Esecico, f. in Beigium, nr. Gheni, E. Flanders, p. 12,000.
Bgba, nat state in Brit. Nigeria, W. Africa, cap. Bgaln, 4. on R. Bode, nr. Magdeburg, Prassias Saxony, p. 5,200.
Bger, f. in Bohemia, nr. Prague, on R. Eger; cloth, hat, and shoe factories; p. 25,000.
Bgerdir, f. in Assa Minor, nr. Isbarta, on L. Egerdir; Egga, port on R. Niger, Africa, in Yoruba country, p. 10,000.

D. 10,000.

Eggs, perr on R. Niger, Airca, in Forma country, p. 10,000.

Byham, vil. and residential elicit. on R. Thames Eng., nr. Staines; contains the field of Russymede, where King John signed Magna Charta, also the artificit. L. Virginis Water, p. 12,521.

Bgin, t. on R. Euphrates in Asiatic Turkey, p. 10,000; many Armenians masscred, 250; (fishes, p. 20,000.

Bgorievsk, t. in Ryazzn govt. of Russis; import. corn Egremont, mkt. t. on R. Eden, Camb, Eng., p. 6,905; also sub. of Birkenhead, Cheshire, p. 3,500.

Bgypt (including the provs. re-conquered in the Soudan, 760,000 50. m., p. 11,000,000); E. preper stretches from the Medit. to Wady Halfa, but Egyptian and Brit. authority has now been extended over the whole of E. Soudan up to the Great Lales, including, by zerzang, with France, the Bakering Chazul and Darfut to the W. of the Nile; cap. Calso, chief port Alexandria; cap. of Soudan, Khartoun, port Soukis (e. v.).

Bleen, smi. R. (12 m.), Cumberland, Hag., flows into

bingen, f. nr. Ulta., Wurtemberg, Germany, p. 4,500. Ehrenbreitstein, L. and fort on Rhine, opposite Coblens, the "Gibraltar of the Rhine," p. 6,000.

Bisraufeld, L. Rhen. Prussia, mftg. sub. of Cologne,

Bisramfeld, L. Rhen. Prussin, mfrg. sub. of Cotogne, p. 85,500.
Risramfriedersdorf, f. str. Dresden, Saxony, p. 4,500.
Risramfriedersdorf, f. str. Dresden, Saxony, p. 4,500.
Risramfrieders, p. 7,500.
Risramfriedersdorf, f. str. Dresders, p. 7,500.
Risramfriedersdorf, f. str. Dresders, p. 7,500.
Risramfriedersdorf, f. str. Dresdersdorf, p. 8,500.
Risramfriedersdorf, f. str. Dresdersdorf, p. 8,500.
Risramfriedersdorf, f. str. Dresdersdorf, p. 8,500.
Risramfriedersdorf, f. str. Dresdersdorf, f. str. Dresdersdorf, p. 8,500.
Risramfriedersdorf, f. str. Dresdersdorf, f. str. Dr

Bigg, 464. of the Hebrides, Scott, Included in co. Inverness; basaltic rocks on coast.

Bidem Hills, three peaks nr. Metrose, Roxburgh, Scott, highest pt. 2,95 ft. [anc. castle, p. 16,000. Bilenburg, mftg. 4, on R. Mulde, Prussan Saxouy; Embeck, 2. in Henover, Germany; antiqn. museum, p. 8,000. [pigrim resort, p. 9,000. Emsendein, 4. cant. Schwytz, Switz, jed monastery, Bisenach, 4. Saxe-Weimar, Cent. Germany, on R. Nesse, at foot of the Thuringian forest, p. 39,00. Biseners, min. 4. in Erzberg intns., Styria, Austria, p. 6, voo.

p. 6,500.

p. 0,500. Brassian Saxony, 39 m. from Leipsic; birthpl. of Luther, centre of copper and silver mm. regn., p. 24,000. Igreat grain trade, p. 69,000. Bkaterinadar, busy Cosuckt. on Kuban R., S. Russia; Ekateriadurg, t. on R. 1set in the E. Urals, Russia, govt. mining centre, many import. industries, govt.

. 60,000.

govt. mining centre, many miport. mining p. 60,000.

Ekzeterino-Nickolsaya, vil. (p. 2,000) in Amur prov. of Asiatic Russia, 340 m. below Biagovestchensk, centre of govt. for the Amur Cossacks.

Ekzeterino-Nickolsaya, vil. (p. 2,000) rich in minerals, soil fertile black earth; cap. Ekzeterinosay, on R. Dnieper, p. 125,000.

[col. of Natal surce Dec. 1897.

[col. of Natal surce Dec. 1897.

[klowe, cap. of Zuhtland, S. Africa, part of the Brit. Elabuga, dist. t. of Russia on Kania R., 1978. S. E. of Vyatka; good corn trade, anc. burnal ground, many reliques of Stone Age, p. 10,000.

[Pretoria. Brit. vic. Oct. 21, 1890.

[Col. oct. 21, 1890.

[Col. oct. 21, 1890.

[Col. oct. 22, 1890.

[Col. oct. 23, 1890.

[Col. oct. 24, 1890.

[Col. oct. 25, 1890.

[Col. oct. 2

Barrians, T. Brytt.

Egypt.

El Khattif, t. fortified of Turk. prov. El Hasa, p. 20,00e.

El Khulti, t. fortified of Turk. prov. El Hasa, p. 20,00e.

El Obeid, cap. Kordofan, E. Soudan, p. 30,000 to 40,000. Mahdist victory over Hicks Pasha's Egyptian

anny, 1883. El Onad, or El Wad, t. in Algerian Sahara, p. 7,700. El Paso, two frontier t.'s on Rio Grande; one in Texas,

El Paso, two fronter A: s on Nio Grande; one il 1 ezas, p. 30, 279; the other in Mexico, p. 8,000.

El Viso, A: in Antalusia, Span, p. 3,500.

El Viso, A: in Antalusia, Span, p. 3,500.

El Na, 124. On Tuscan const, Italy, prov. Leghorn; iron ore, wine, salt, convect prisons, p. 27,000; chf. t. Porto Ferrajo. Napoleon dwelt on the 1sl., 1814-1815.

Elbe, (725 m.), Chief A: of Germany, the Roman "Albis," rises in Bohemia and flows into North Soa 65 m. below Hamburg. Navig. to Melnik in Bohemia over goon.

(over 500 m.). [p. 170,000. Elberfeld, import, mftg., t. Rhine prov., Prussa, Elbeuf, t. on R. Seine, France, 14 m. W. of Rouen;

Elbeuf, f. on R. Seine, France, 14 in. W. et Rouen; woollen manuf; p. 20,000.
Elbing, f., W. Prussia, on R. Elbing, nr. the Frische Haff; shipldig., p. 50,000.
Elbougen, fort. f. in Bohemia, 74 m. from Frague, p. Elbruz Mr., highest pv. in the Cancasus, alt., 25,00 ft.
Elbruz, mrs. ra. in N. Persia, bordering on Caspian Sea; highest peak, Demavend, 27,000 ft.
Elebe, f. nr. Alicante, Spain, on R. Vinalpo; oil, soap, and other manuf. ft. p. 3600.

and other manuf., p. 29, 50.

Bideralie, 92., nr. Prisiey, co. Renfrew, Scott.;

birthyl, of Wallace, p. 1, 200. [cave sculptures.]

Elephanta, 42. in Bombay Harlwar, with wonderful

Rightantine, 42. in the Nile, Upper Egypt, opposite

Rieuthera, Brit. tr. Bahamas, W.I., p. 2,500.
Elfkarteby, L. in Sweden, at mouth of Elf-Dal, Gulf of Bothufa, fisheries, p. 5,400.
Elgia, or Moraysh. co., N.E. Scotl., area 482 sq. m., p. 43,437; distilling, woollen manuf., agr.; co. t. Elgia on R. Lossie, p. 8,656. Also Elgin, c. in Kane co. Illineis, U.S.A., watch-making, p. 26,000.
Elgon Mt. (or Massway), extinct volcene in Brit. F. Africa, a vast mass, 40 m. in diam., alt. 14,200 ft., cave dwellings on slopes.

dwellings on slopes.

dwellings on slopes.

Elizabetgard, t., (fort.) on R. Ingul in Kherson, govt. Russin. flour mills, corn trade, p. 64,000.

Elizabeth City, mftg. A. New Jorsey, U.S.A., p. 74,000; also t. on Pasquotank, R., N. Carolina, U.S.A., tumber industry, p. 7,500.

Elizabethoj, t. Transcaucasia, Russia, cap. of govt. sunth name; gardemug, silkworm-rearing; p. szook lik Mins., lofty rz. in W. Colorado, U.S.A., highest pt. Castle Peak, alt. 14,115 ft.

Elkhart, fifg. c. of Elkhart co., Indiana, U.S.A. p. Elland, t. on Calder R. W.R. Yorks, Eng., nr. Halifax, cotton mills, p. 10,578.

Elland, A. on Calder R. W.R. Yorks, Eng., "nr. Halifax, cotton mills, p. 10,678.

Ellesmere, inkt., 4. Shrop-shre, Eng., pr. Whitchurch, Ellesmere Land, reg. in Arctic America.

Ellesmere Port, Cheshure, Eng., p. 10,366.

Ellice Isia, Brit, group in S. Pacsfie, N. of Fiji.

Ellichpur, milit. sta. in Berar, S. India, en R. Bichan, p. (with Cantonment) 54,000.

[3,757.

Ellon, nt./ Aherdeen co., Scotl., on R. Yohan, p. [part.]

Fallora, Cul. Nizam's Dem., S. India, with wonderful rock temples.

Etlore, t. Godavari dist., Madras, India; cotton-manuf.,

p. 33,000. [p. 15,000. Elmina, & fort., Brit. Gold Coast Colony, W. Africa, Elmira, mfg., & N.Y. State, U.S.A., p. 37,376. Elmakora, &, in Schleswig-Holstein, Prussa, tanneries,

etc., p. 15,000.
Riopura.—(See Sandakan.)
Riveno, cap. of Oldahoma co., Canada, p. 3,500.
Riasso, Ger. name of Alsaco, prop. taken from France

in abyr.

Bialsore, 59th Denmark, at narrowest pt. of the Sound, as an. from Copenhagen, shipblig: trade, p. 14,500.

Bister (White), R. Germany, 800x sto m. N. from Bohemia to Saale, also (Black) R. rises in Saxony, and joins the Elbe.

Bisterberg, t. in Saxony, on White Elster R., i cotton Elstow, v.d. Bedfordsh., Eng., butthpl. of Bunyan.

Bistree, vil. residential and scholastic dist., Herts, Eag.

Eng., nr. Newcastle; Armstrong's shipbuilding and ordinance works. Bitham, vs. and residential dist. Kent, Eng., p. 6,500; also t. Victoria, 14 m. E.N.E. Melbourne, on R. Yarra. Blton, sufig. s. Lancs, Eng., in Bury bor.; p. 12,500; also salt L. govt. Samara, Russin. p. 12,500. Blvas, c. (fort.) on R. Guaduna, E. frontier of Portugal. Elwood, r. (industri.) of Madeira co., Indiana, U.S.A., on Duck Creek, p. 74,500. [growing dist., p. 7,700, Ely, cathedral c. on R. Ouse, Cambs, Eng., in kutt-Elyria, industri. c. in Loraine co., Ohio, U.S.A., p.

Bmbo, vsf. Sutherland, Scotl.; great battle between Earl of Sutherland and the Danes in 1259. Embran, c. (fort.) on R. Durance, dep. Hautes-Alpea,

France, p. 4,000.

Emden, *pt. on Dollart Bay, Hanover, Prussia; agr. produce, live-stock, etc.: p. 27,000.

Emerald Hill, *subwrb of Melbourne, Victoria, p. 28,000.

Emeraon, 2. prov. of Manatoba, Canada, 65 m. S. of Winnissen. Winnipeg. [straw-planting, agr., etc. Emilia, aiv. Cent. Italy, area 7,967 sq. m., p. 2,500,600; Eminabad, t. in the Punjab, India, Gujanwala dist.;

Emin Pasha's Prov., on White Nile, Equatorial Africa, Emiley, par. W.R. Yorks, Eng., 7 m. S.E. Hudders-field, p. 1,622.

field, p. 1,602.

Emmaville, mining t. 403 m. from Sydney. N.S. W., 18,950.

Emmaville, mining t. 403 m. from Sydney. N.S. W., 20,000.

Emmaville, will the first state of the first sta

Emperor William's Land, German possession on N. side of New Guinea; also a tract in E. Greenland. Emperstrasse, valley in Westphalia, ironworks and

Emperstrasse, valley in Westphalia, ironworks and coal mines.

Emporia, cap. of Lyon co., Kansas, U.S.A.; college, Ema, wat. pl. Hesse-Nassau, Prussia, on R. Lain; residenti., p. 7,000; also R. (205 m.) N. Germany, flowing to North Sea.

Emsworth, spi. Hants, Eng., nr. Havant, p. 2,000.

Emu Park, wat. pl. nr. Rockhampton, Queensland Baara, L. in Russian Lapland, area 685 sq. m., outlet into Arctic Oc.

Encounter Bay, S. Australia, receives Murray R.

Enderby Land, extensive territory in the Antarctic Ocean.

[Lomond.]

[Lomond. Ocean.

Enderty Land, extensive invitory in the Antarctic Ocean.

Badrick, R. in Stirling co., Scotl., flows [29 m.] to Loch Enfield, Ł. Middlesex, Eng., to m. N. Loudon, egovt. small arms factory, p. 56,341; also gunpowder infig. t. in Hartford co., Connecticut, U.S.A., p. 7,000.

Bagadine, Alpine valley in Grisons, Switz., watered by R. Inn; favourite health resort.

Engano, C. S. extremity of Luzon, Philippine Isls. Baghien, wat. pł. nr. Paris, p. 24,00; also mftg. t. Hainault, nr. Mons, Belgium, p. 4,500.

Bagland, area 50,823 q. m., p. 32,50,975 (1901 census) S. and most populous portion of Grent Britain, the Largest European isl. Nearest point to the Continent (Dover) 21 m. from N.E. coast of France, greatest length, Berwick to the Lizard, 420 m. greatest hreadth, Lowestoft Ness to Land's End, 350 m. Chief ports, London (the metropolis of the Empire), Liverpool, Bristol, Southamiton, Hull, Newcastle on Tyne, Sunderland, Yarmouth, Plymouth and Falmouth, all of which see.

Tyne, Sunderland, Yarmouth, Frynson.
Falmouth, all of which see.
Buglish Channel, narrow sea separating England
from France, extends from Strait of Dover to Land's
End In Cornwall; length 300 m, greatest width, 15c m.
Enguera, 7, 11, Valencia, Spain, p. 6,500, [Sea of Azof,
Enkale, or Yenikale, strait between Black Sea and
Enkhulzen, Dutch 5pt. on W. side of Zuyder Zee,
Holland, p. 6,000. Holland, p. 6,000. [Whitehaven. Ennerdale Water, L. in co., Cumberland, Eng., nr. Ennersdale, stg. on Natal main line, between Estcourt

and Colenso, South Africa.

Ennis, t. co. Clare, Ireland, on R. Fergus, p. 6,400.

Enniscorthy, t. co. Wexford, Ireland, on R. Slaney,

p 5.750.

Enniskillen, co. t. of Fermanagh, Ireland, p. 5,400.

Enniskillen, co. t. of R. Oyna, co. Clare, Ireland, p. 1,350.

Enniskillen, t. on R. Oyna, co. Clare, Ireland, p. 1,350.

Ennis, R. (112 m). Austria, trib. of Danube, also anc.

t. on R. Ennis, walled; p. 4,250.

Enos, spf. at mouth of Maritza R., Turkey, p. 7,000.

Enschede, t. in prov. Oberyssel, Holland, on Prinsian

Control of Control of Marity R. 2,500.

[Protugal]

Ensequence, I in prov. Oberyssol, Holland, on Frieslan frontier; cotton-spinning, p. 35,000. [Portugal Entre Douro et Minho, fruit-growing prov. of N. Entre Rios, stock-rausing prov. between the rivers Parana and Uruguay, Argentina. Entry, 3st. New Zcaland, on E. side of Cook's Strait. Eperjes, E. Hungary, on R. Tarcza; linen manuf.,

p. 23,000. [p. 20,000. Rpernay, t. Champagne dist., E. France, on R. Marne Bphesus, ruined c. of Asia Muor, 35 m. from Smyrna Rpinal, e.g. of Voyana dist. F. ham.

Epinal, cap. of Vosges dep., E. France, many manuf.; p. 28,000.

p. 28,000. Bpirus, anc. dist. S.W. Turkey and N.W. Greece. Eppendorf, t. nr. Hamburg, Germany, p. 7.450. [4.253. Epping, t. and forest, Essex, Eng. p. (urban dist. Bpsom, mkt. t. Surrey, Eng., famons race-course, p. 10,166. p. 10,156.

Byworth, L. Lincs, Eng., nr. Gainsborough; burtipl.

Erandol, L. in India, Khandesh div., Bombay, p. 12,000.

Erebus, Mt., active volcano, Victoria Ld., Antarctic, alt. 12,397.

Eregli, L. on the Black Sea, Asia Minor, the anc.

Erfurt, e., assoc, with Luther, nr. Weinar, Saxony; two citadels, mkt. gardening and seed growing date in 2000.

gruening and seed growing gardening and seed growing gusts; p. 112,003.

Brgasteria, min. f. Greece, S.E. coast of Attica; Bricht, Icoh in the Grampiaus, Scotl., 124m. long.

Brie, L., the most southerly of the Great Lakes of N. America, 9,600 sq. m. m area; also pt. on L. Erig and cap. of Erie co., Pennsylvania, U.S.A.; gt. trade

centre; p. 67,000. [Uist. Eriskay. one of the Hebrides is/s., Scotl., South of

Brith, f. on Lower Thames, Kent, Eng.; p. (urban dist.) 27,755.

Britrea, Italian colony on Red Sea coast; area 88,500 Brivan, Russian f. in prov. same name in Caucasia,

Drivan, Kussian f. in prov. same name in Caucasia, p. 34,000; old Persian fortress on R. Zanga. Briangen, f. Bavaria on R. Regnitz, nr. Nuremberg, University; p. 24,000. Friau, c. in Hungary, 69 m. N.E. of Pesth, cathedral, Brne, R. [79 m.] and L. Ulster, 1re., Donggai Bay, their outlet. their outlet. [P. 15,000. Erode, & in the Colmbatore dist. of Madras, Indla; Brromanga, & d. in New Hebrides; p. 5,000. Brsek-Ujvar, industri. & nr. Sellye, on R. Neutra, Hungary, p. 5,000.

Breek-Uyar, incustri. a. m. Senye, some Hungary; p. 10,750.

Bratein, f. in Alsace, on R. Ill., nr. Strasbourg, p. 5,400.

Brzerum, f. Armenia, As. Turkey, in vilayet of same name; forests and mineral springs, in dist.; large garrison; massacre of Armenlans, 1895, earthquake, 1901; p. 40,000.

Brzgebirge, min., range between Saxony and Bohemia, Brzingan, f. in the western Euphrates vall., Asiatic Turkey, military centre; the anc. Arsingu; p. 23,000.

Bržingan, i. in the Western Euphrates vall., Asiatić Turkey, military centre; the anc. Arsinga; p. 23,000.

Bsbjerg, i. on Jutland coast, Denmark, gt. trade; p. 15,000.

Bscanaba, i. in Delta co., Michigan, U.S.A.; timber Bschwege, i. on R. Werra, prov. Hesse-Nassau, Prussa, p. 17,000.

Bschweiler, i. Rhenish Prussia, nr. Air-la-Chapelle, Bsdraelon, Plairi in N. Palestine, between Carmel and Gilbon Mtns.

Esenz, t. in Hanover, Prussia, nr. Emden, p. 2,500.

Esh, 4, 5 m. from Durham, Fing., p. 6,500. Esher, vil. and residentl. dist. on R. Mole, Surrey, Essier, 171. and residenti. dist. on R. Mole, Surrey, Eng. p. 9,500.

Bak, name of sin. R.'s in Dumft., Edin., and Forfar, Bake, R. Eng., flow into North Sea at Whithy.

Bakilatuna, L. in Sweden, on R. Eskilstuna, 55 m. from Stockholm; cutlery, p. 30,500.

Bakil Shehr, Turkish L. in Assa Minor, on Pursak Su R.; meerschipun numes. P. 20,000.

meerschaum nunes, p. 20,000. Eski-Zagra, t. prov. Eastern Roumelia, European

Esti. Zagra, I. 1970. Eastern Roumenia, European Turkey, p. 17,500, mainly Bulgarians.

Esia, K., Spain, 152 m., affit. of the Doura Esmeraldal. I. in prov. and on R. of the same name, Ecnador, S. Amenta, Ecnador, S. Amenta, Esneh, I. on R. Nile, Ul per Egy pt, p. 10,000.

Esperance, I. and summer resort in Western Australia.

nteresting caves Esperanza, old t. Santa Clara prov., Cuba; guava

Esperanza, old f. Santa Clara prov., Cuos; gueva jelly, p. 2,500.
Espiritu Santo, maritime prov. of Brazil, cap. Victoria. Esquimail, Brit. naval stri. on S.E. coast of Vancouver Isl., Brit. Columbia, p. 2,500. [Hungary, p. 20,000 Essek, or Esjek, industri. f. of Slavonia on R. Drave, Essen, d. Riccuisi Prussia; Krupp's ordinance and engineering works, p. 125,000. [scrving, p. 16,000 Essendon, d. in Victoria, nr Melhourne; meat-pre-Essentuki, vact. pt. in North Caucasia, Russia, nr. Postinosek n. vacosek n. vaco

Pyaticorsk, p. 70,000.

Bssequibo, R., Brit. Guiana (620 m.), flows into Atlantic;
also country of B.G., formerly a separate colony.

Essex (area 1,542 sq. m., p. 1,351,102), co. in E. Eng., on N. side of Thames: co. t. Chelmsford: largest t. en N. side of Thames; co f. Cheinstord; largest t. Stratford, E. sub, of London; also sub. t's in Vermont and Connecticut, U.S.A. [of Cairo Rs Slwah, oars; in Lulyan desert, Fgypt, 3ro m. S.W. Essling, vol. Lower Austria, on the Danube, nr. Vienna; battle, 1809.
Baslingen, fort. A. Wurtenberg, Germany, on R.

Baslingen, fort. t. Wurtemberg, Germany, on R. Neckar; cotton nanul., p. 33,000.

Essones, t. m. Corbeil, dep. Seune-et-Oise, France; paper factories, p. 20,000.

Estoourt, f. Natal, S. Africa, 250 m. from Durban.

Este, t. nr. Padua, Italy; castle with leaning cam-

Este, f. iii. Padua, Italy; castle with icaning campanile, p. 7,000.

Estella, f. prov. Navarre, Spain, on R. Ega; formerly a Carlist stronghold, p. 7,000.

Fstepona, f. prov. Malaga, Spain, nr. Gibraltar, p. Esthonia, a gout. of Russia (area 7,816 sq. m., p. 500,000) extending along S. shore of the G. of Finland, cap. Revel. Efing, blast furnaces, p. 7,200.

Eston, industri. dist. nr. Stockton-on-Toes, Yorks.

Estrella, Serra da, min. range in Beira, Portugal, highest pt. 7,524 ft.

Estremadura, former coast prov. Portugal, on the Atlantic Oc., now divided; chf. t. Lisbon; also old dist. Cent. Spain, now forming provs. Badajos and Caceres. [quarries, p. 8,400. Estremoz, fort. t. in Prov. Alemtejo, Portugal; marble

Battergom, industri. 6. in Hungary, cap. co. same name, p. (with subs.) 18,500. [Channel, p. 4,300. atables, t. (p. 8,000) in dist. same name, Agra div. of N.W., prov., India; area 1,741 sq. im, p. 80,319. Etampes, commerci. t., dep. Senne-et-Oise, France, p. 14, 600.

9,000.

Riapies, t. in Pas de Calais, France, nr. Boulogne, p.

Riawah, dist. N.W. Provs., Agra div., India, area
1,691 sq. m., p. 807,000; cap. same name, on R. Jumna,

p. 38,000.

Bten, t. in prov. Chiclayo, Peru, p. 3,750.

Bten, t. in prov. Chiclayo, Peru, p. 3,750.

Bthiopia, former name of African countries S. of Egypt.

Btive, R. (20 m.) and toth, Argylish, Scotl., ann of

Atlantic.

Etna, act. volcano N.E. coast of S.cily, alt. 10,784 ft.; also bor. Pennsylvania, U.S.A., on R. Allegheny, p. 6,000. [School, opp. Windsor, p. 3,392. Eton, A. Bucks, Eng., on R. Thames; famous public Etowah, R. in Georgin, U.S.A., irnb. of R. Coosa. Eturia, J. with large Wedgwood potteries, and iron works, near Burslem, Stans, Eng.; also anc. Italian country (now Tuscany, and part of Umbrah. Ettelbruck, A. nr. Diekirch, Luxembourg, p. 3,690. Ettrick, Preset and K. (20 nn.) in Selixikshi, Sott. Et Tyh, desert in Arabia, N. of pen. of Sinal. Eu, A. N. France, nr. Dieppe; famous children, p. 5,000. Eubosa, or Negropont, Grock in Algean S., 175 nn. long, p. 115,000.

Bundea, or Negropont, Greek 1st. in Algean 5., 115 ni. long, p. 115,500.

Bufaula, t. ou Chattahoochee R., Alabama, U.S.A., Bupatoria, 5t. on W. coast of Crimea, Russa; soap, leather, locks, etc., p. 17,000.

Bupea, mitg. t. Pruss., Khine prov., p. 16,805.

Buphrates (1,780 m.), largest R. in S.W. Asia, rising in Armenan Uplands and Joined by the Tigris and the Persian G. as the Shatt-cl-Arah. Anciently E. valley was densely populated (c. of Babylon being on Its banks).

Bure, dep. (mainly agr.), Normandy, France; area 2,331 sq. m. p. (decreasing) 330,000; (ap. Lyreux, on R. Eure (117 m. long), at its confluence with Scine. Bure-et-Loir, dep. Northern France, area, 2,233 sq. m.

R. Eure (117 m. long), at its confluence with Scine.

Bure-et-Loif, def. Northern France, arca, 2,293-cq. m.

p. (decressing) 374,000; Cup. Chartress.

Bureka, co. and mining f. Nevada, p. 4,500; also
portion Humboldt B., Cal., U.S.A., p. 7,400.

Bureka Springs, wat. pl. Cartoll co., Arkansas,
U.S.A., p. 4,500.

Fluca, f. in pastoral dist., 93 m. from Melbourne,
Burope, consuscut, forming N. W. portion of the Old
World; area nearly 4,000,000 sq. m., p. (about)
400,000,000. Separated from Asla by the Ural Minsand R., and bounded on the N. by the Arctic O.,
W. by the Atlantic, and S. by the Mediterranean,
Principal co.'s, the insular kingdom of Great Britun
and Ireland, France, Germany, Russia, Italy, Spain,
Portugal, Austria-Hungary, Switzerland, Sweden,
N. 19, Denmark, Holland, Belgium, Turkey,
Greece, etc. (all of which see separately). Chief
mins, Alps, Apennines, Pyrenees, Carpathians, and
Balkans, with the Ural and Caucasus ranges on the
confines. Principal R.'s, the Volça, Don, Dueper,
Dniester, Danube, Bug, Po, Tiber, Armo, Rhuie,
Ebro, Guadalquivir, Candiana, Tagus, Douro,
Garonne, Loire, Seime, Rhuie, Weser, Elbe, Oder,
Vistula Dwina, and Mezen. (See separate entries,)
Bushirchen, f. in Rhenish Prussia, in. Cologne, p.

180,500.

Evanston, t. Ill., U.S.A., on L. Michigan; university,

Evenuston, 7. M., U.S.A., on L. Attenigan; university, p. 24,978.

Evenuston, a par. in Worcestersh., F.ig., on R. Evenlode, a par. in Worcestersh., F.ig., on R. Evenlode, a trib. of R. Thames, and in the world.

Everest, Mt. (29,002 ft.), highest mit., in the Himalayas

Everett, mtg. 7. nr. Botton, Mass, U.S.A., p. 33,484;

also / on Puget Sound, Washington, U.S.A.

Everglades, extensive uninhabited marsh in S. Florida,

Everton, a division of Liverbool. Enc. n.

Everton, a division of Liverpool, Eng., p.

83,416.

Evesham, munic. bor. and mkt, f. in Worcestershire, p. 8,341. [its mules and cork woods, p. 15,500. Evora, cap. of Alemtejo, prov. Portugal; tamous for Evreux, cap. of Eure dep., France; ticking and other

textile manuf.; fine town hall, p. 20,000. [p. 3,800.]

Evron, t. in prov. Mayenne, France, nr. Lavalle,

Ewe, loch, Ross-sh., Scotl., inlet of The Minch, with

sml. isl. same name. [Eng., 4,000.]

sml, isl. same name.

[Eng., 4,700.

Bwell, vil. and residential dist. in Epsom, Surrey,

Excelsior Springs, t. in Missouri, U.S.A., p. 3,240.

Exc., R. Somerset and Devon (55 m., rising on lexmoor.

Exeter, anc. c. on R. Exe, co. t. of Devonsh., Eng., fine cathedral (12th cent.), p. 48,660, also vil., Huron

nnie catnetora (1221 cent.), p. 4900-co, Canada.

Bzminster, f. nr. Exeter, Eng., p. 2,450.

Bzmoor, extensive moorland and forest tract, borders of co.'s Somerse, and Devon, Eng.; highest point, Dunkerry Beacon, 1,707 it. [p. 11,963. Exmouth, wat. pl. Devon, Eng., at mouth of R. Exe, Exploits, R. Newfoundland, flows 150 m. to Exploits

Exumas, group of sml. tels. in Bahamas, W. Indies, Eyam, A. in Itakewell, Derbysn , Eng., p. 1,100.

 Ryam, J. in Bakeweii, Deroysii, Eng., p. 200.
 Bye, inkt., f. Suifolk, Eng., p. 2000.
 Byemouth, 26t. Berwick, Eng., 2,50t.
 Byguieres, L. in dep. Bouches-du-Rhône, France, nr. Arles; silk-twist factory, p. 3,100.
 Rylau, J. E., Pruesia, nr. Königsberg, p. 4,500; famous battie, 1807, between Napoleon's troops and those of Russia and Prussia. Kussia and Fruswa.

Eyre, Z. (salt), N. part of S. Australia, area 4,000 ag, m.,

Eyria, **e*n. in S. Australia, N.W. of Spencer G.

EZCATEN, / prov. Logrono, Spain, p. 2,500.

EZ Zumieh Jebel, **m*n. in Palestine, a*t. 2,804 ft.

Faaborg, spt. on Funen Isl., Denmark, p. 3,800. Fabriano, mítg. c. prov. Ancona, Central Italy; fine cathedral, p. 22,000.

Fabrizia, A. nr. Eunteleone, Italy, p. 5,500.
Fachan, or Fatchan, large industri. A. nr. Canton, S.

China, p. 400,000. [Tokio, 9] in. long. Facone, sacred L. in i.i. Niphon, Japan, 57 m. from Facelea, prov. Ravenna, Cent. Italy; talence indust.,

Faenza, 1700. Ravenna, Cent. Italy; talence indust., p. 18,500.
Fahlun, or Falun, t. in Kopaprherg, Sweden; fanious Fal-Fo, t. in Annau, Indo-Chinese penun, p. 14,700.
Fallsworth, cottor mftg. t. Lancs., Eng.; suburban to Manchester, p. 16,000. Illinois, U.S.A., p. 2,750.
Fairbury, t. in Nebraska, U.S.A., p. 4,500; also t. on Bug Cedar R., Iowa, U.S.A., p. 4,500; also t. on Bug Isl. Sound, in Fairfield co., Connecticut, p. 5,000.
Fair Isl., midway between Shetland and Orkney. Scotl.; flagship of Spanish Armada wrecked here, 1888.

Scotl.; flagship of Spanish Armada wrecked here, 1888. [Emlier trade, p. 5,000. Pairbaven, c. on Puget Sound, Washington, U.S.A; Fairhead, prom. N. coast Ireland, co. Antriin. Fairmont, L. cap. of Marion co., W. Virginia, p. 6,000. Fairoaks, stm. nr. Richinond, Virginia, U.S.A.; great battle in Civil War, 1860.
Fairweather, nnn. Alaska, N. America, alt. 14,872 ft. Faizabad, t., dist., drv., and mintary stm. in Oudh, India; p. of t. on Gogra R. 75,000; one of the centres of the Muthy.
Faizpur, t. in Khandesh div., Bombay, India, p. 10,000. Fajardo, Smil. 59t. of Porto Rico, prov. Humiacao, D. 3,000.

p. 3.500.

Pakenham, f. Norfolk, Eng., on R. Wensum, p. 3.000.

Pal, R. Cornwall, Eng., flows (23 m.) into Euglish
Channel at Falmouth Harbour.

Channel at Falmouth Harbour,
Falaise, 4. dep. Calvados, France; castle, birthpl. of
William the Conqueror, p. 9,000.
Falcon, state Venezuela, along the coast of the Caribbean Sea: area 36,225 d.m., p. 188,000; cap. Coro.
Falemen, R. in Senegambia, Africa (200 m.), trib. of
R. Senegal.
Falkenstein, 4. nr. Plauen, Saxony, p. 6,200; p. 188,200;
Falkirk, 4. in co. Stirlingsh., Scott.; foundries; battlea
1208 and 1746, p. 33,509.
Falkiran, 4. File, Scott.; f. Palace, an anc. royal
residence, now seat of Lord Bute, p. 830.

Falkland Isls., Brit. possession S. Atlantic, area 0,500 sq. m., p. 2,000; cap. Stanley on Port William; wool and cattle rearing industry. [p. 120,000. Tall River. c. of Bristol co., Mass., U.S.A.; cotton milis. Falmouth, spt. on S. coast of Convail, Eng., p. 13,236.
Falmouth, spt. on S. coast of Convail, Eng., p. 13,236.
False Bay, inter on E. side of C. of Good riope pen, leading into Sumon's Bay, the prin. stn. of Brit. S. African squadron.
False Point, C. on delta of Mahanadi R., Cuttack dist., Bengal, India.

Falster, ss., (30 m ) in the Baltic, Denmark, p. 35,000; Falticeni, L. in Suciava dist., Romania; import.

Cattle fairs, p. 10,000.

Falun,—(See Fahlun.)

Pamagusta, spt. on E. coast of Cyprus, no harbour, 24 m. S. of the rums of anc. Salamis, p 1,000 (Moslems in the fortress).

Fannich, loch in Ross co., Scotl , (61 m. long), drains

to Comarty F.
Fanning, Brit, sst. in N. Pacific Oc.; amexed at 1883,
Fano, t. on Adriatic est. Italy; silk industries 'p 11,500.
Fanoe, ist. of Denmark, off W. coast of Jutland; and

Pance, 151. of Denmark, off W. coast of Juttand; and 20 Sq. m.; P. 3,500.

Pareham, 2011, M. nr. Portsmouth, Hauts, Firy, Parewell, Cape, pl. on isl. of cxt S. pt. Greenland.

Pargo, t on Red R., N. Dakota, U.S.A.; in rich wheat region; p. 1,000. [flour factories; p. 8,500.

Paribautt, 227, of Rice co., Minnesota, on Cannon R.,

Paridict, Sikh state and t. in Punjah, N.W. India; area of S. 642 sq. m.; p. 120,000, of t. 10,500.

Paridput, Canges delta, Dacca dive, Rengal, India; p. 10,000; cap. of Faridput (or Furredpore) dist.; area 2205 sq. m.; p. 1018, 2007,000

area 3,267 sq. in.; p. nrly, 2,000,000.
Faringdon, t. Berks, Eng. (properly Great F.); anc.

t. hall; p. 2,900.

Farmington, r. in New Hampsh, U.S.A., p. 3,500; also t. in Maine, U.S.A., p. 3,750; also t. in Connecti-

also t. in Maine, U.S.A., p. 3,750; also t. in Connecticut, U.S.A.; p. 3,550 Parmwille, t. in Virginia, U.S.A.; p. 3,500. Parmborough, par. E. Hants, Eng., Hasing-toke div., nr. Aldershot; p. 14,00., nearly half multary. Parne 161s., group off Northumberhand ext., Eng., opp. Hamborough; sometimes called the Fen Isls., or

Staples.

Staples.

Farnham, mkt. 4. on R. Wey, Suriey, Eng. : p. 7,365.

Farnworth, mfg. 4. on R. Irwell, nr. Bolton, Lanus,

Eng. ; p. 25,122.

Alearye prov., Portugal, p. 8,100

Farb, spt., cap. of Algarve prov., Portugal, p. 8, 200
Faro, an 154. in Baltic S., N. of Gothland, belonging to

Sweden, p. 1,100, Faroe Isls. (540 sq. m., p. 13,000), 200 m. N W. of the Shetlands, Scotl.; cap, Thorshavn (Strömö Isl.); Danish possessions.

Far Rockaway, t. m New York, U.S.A., p. 2,500. Fars, or Farsistan, a S.W. prov. of Persia, on the Far Rockaway, f. m New York, U.S.A., p. 2,500.
Fars, or Farsistan, a S.W. *prov. of Persia, ou the Pn. Gult, cap. Shraz; p. 1,750.000. [5,906.
Farsley, mfg. f. W.R. Yorks, Eng., nr. Bradford, p. Fartash, or Saif, 59f. on W. est. of Arabia, p. 11,400.
Farthabadad, c. N.W.P. India, Agra div., p. 62,000; m. F. dist., area 1,700.50, m. p. 9-5,000. [p. 19,000.
Fasano, industri, f. E. I. Pily, nr. Monopoli, prov. Bari; Fasher, Ell, cap of Darfur, E. Soudan.
Fashord, Anglo-Egyptian str. on White Nile, 450 m. S. of Khartoum. Evac. by the French after Khalifa's defeat at Omdurnan by Kitchener, p. 300,000.
Fastenet, Aghthouse in Atlante, 44 m. S.W. Cape Clear, on rocks in: the Intha coast.
Fastov, f. un gort. Kiev, Russia, p. 3,000.
Fatchpur, f. N.W. Provs., India, Allababad div., p. 15,000; also f. in the State of Japur, Rajystana, p. 2,000; also f. in the State of Japur, Rajystana, 1,013, p. 15,000; also dist. of Allababad div., area 7,699 sq. m., p. 685,000.
Fatchles, Les Monts, a range of halfs connecting Vogges and Laugres plateau, E. France, highest pl. abut, 5,600 ft.

abt. 1,600 ft.

Faulhorn, t. Orange River Colony, S. Africa, p. 4,000.
Favara, t. Sicily, nr. Girgenti; sulphur mues;

p. 16,000.

Faversham, old mkt. f. Kent, Eng.; 10 m. W. Canterbury, p. 10,619

Pavignana, isl. Mediterranean off W. coast of Sicily,

Pavignana, isl. Mediterranean off W. coast of Sicily, p. 6,000.

Payal, isl. Azores, orange growing, p. 26,000; cap. Fayetterille, 4 on Cape Fear R. N. Carolina, U.S.A., p. 5,000; also vil. Tennessee, U.S.A., p. 2,500.

Fayoum, prov. of Middle Egypt, on White Nile: cap Medina-el-Fayoum.

Fazeley, t. in Stafford co., Eng., suburb of Tamworth, Fazokl, or Fazogl, dist. on both banks of Blue Nile, E. Soudan; cap. Adassé.

Feale, or Cashen R., Irel. (30 m.) (rib. of R. Shannon, Fear Cape, Southernmost pt. of N. Carolina at mouth of Cape Fear R.

Fearn. pag. na ch. Ross. Scotl., nr. Tain. p. 1,782.

Fearn, par. in co. Ress, Scotl., nr. Tain, p. 1,785. Feather R., Cal., U.S.A., trib. of R. Sacramento, flowing 250 m. from the Sierra Nevada.

Featherstone, collicry s. W.R. Yorks, Eng., m. Ramsley, p. 43,377; also s. in New Zealand, nr. Wellington, p. (dist.) 3,00. [and trade; p. 15,000. Fecamp, sps. dep. Seino-Intérieure, France; hashers, Pehmern, or Femern, Pruss. st. in Balhr, area, 78

Feinment, or remain, sq. m.; cap. Burg. Feilding, f. in co. Manawatu, New Zealand, p. 1,500. Feilanding, f. in co. Manawatu, New Zealand, p. 1,500.; runned Moorsh castle, wine trade.

Felbach, t. in Wuttemberg, nr. Stuttgart, p. 4,000. Feldberg, mtn. peak in Black Forest, Baden, alt.

A-675 it.
Felegyhaza, indust. t. Hungary, in vincyard dist.
60 in SE, Budapest, p. 32,000.
Felixstowe, wat of E. Sufolk, Eng., 12 m. S.E.
Ipswich, p. (with Walton) 8,667.
Felling, t. suburban to Gateshead, Durham, Eng.; a
Tyneside mftg. and collery dist., p. 25,000
Fellingshio, t. m nonworks dist. of Sweden, Orebre

prov., p. 10,000. Feitre, industri. t. in prov. Belluno, Italy, p. 13,000.

Femera, —(See Fehmera.)
Fenny Stratford, mkt. t. Bucks, Fng., p 5,171.
Fens, The, a low-lying level dist, round the Wash,

including parts of six eastern Eng counties. Fenton, i Staffs, Eng., nr. Stoke-on-Trent; earthen-

ware wirks, p. 25,631.

Fentonville, vil Mich, U S.A., p. 2,000. [1,062.

Fenwick, vil of co. Ayr, Scott, nr Kilmarnock, p. Ferentiao, l. nr. Frosmone, prov. Rome, Cent. Italy, the auc. Ferentinum; cathedral, old walls, Etruscan

the anc. Ferentinum; cathedral, old wans, Etruscan theatre; p. 11,000.

Ferghana, or Fergana, **rov.* Turkestan, Asiatic Russia, area 57,000 sq. m.; fertile valley, surrounded by ligh mtns.; cap. Khokan (q v).

Fergus, F. c. o. Clare (ag m.), trib, of Shannon, Irel.; also vil. on Grand R., Ontano, p. 3,000.

Fergus, Falls, c. Munn, U.S.A., on Red R., p. 6,500.

Fermanagh, co. (inland) Ulster, Ireland, area 714.

sq. m., p. 6,781; R. Frme and great lakes; co. t. Enmokillen (q.w.)

Fermo. c. Cent. Italv. in the Marches, prov. Ascoli;

Enniskillen (q.w.)
Fermo, c. Ceni. Italy, in the Marches, prov. Ascoli;
anc. Fermun, Roman wall; p. 18,000. [p. 5,000.
Fermoselle, c. Spain, nr. Zamora and the R. Douro,
Fermoy, c. co. Cork, Ireland, on R. Blackwater, p.
Fern Liss.—(See Farne.)
Fernandez, c. hi State of Potosi, Mexico, p. 3,500.
Fernandez, c. thi State of Potosi, Mexico, p. 3,500.
Fernandena, t. Florida, U.S.A., on Amelia Isl.,
Nassau co.; crotton industry, p. 4,000.
Fernando de Noronha, 1st. off E. coast Brazil, penal
Fernando De, mountanous Stansh, td. off Cameroon

Nassau Cs.; "reton industry, p. 4,000.
Fernando de Noronha, 1st. of E. coast Brazi, peral Fernando Po, mountamous spansh 1st. off Cameron coast of W. Africa, area 760 sq. m., p. (about) 30,000; cnp. Santa Isahel, p. 1,300, mamly negroes.
Ferozabad, c. N.W.P. India, E. of Agra, p. 17,000.
Ferozepore, or Firozpur, dtt. of Brit. India, in Tulundur div. of Punpab, area 4,302 sp. m., p. nearly 1,000,000; cap. c. of F., nr. the R. Sutlel, p. 54,000.
Ferozeshah, c. in Punpab, India, nr. Ferozepore; Brit. victory over Sikhs, 1845.
Ferrara, fortified c. n. delta of R. Po, Italy; clothing manuf. p. 88,000; cap. of prov. of same name, area 1,012 sq. m., p. 372,500. [p. 6,000; cap. Valverda. Ferro, most S.W. 1st. in Canaries, area too 84, m., Ferrol, 3pt. and naval arrenal on N.W. coast of Spain, in; Comman, p. 5,000. 1 Domfront, p. 10,000.
Ferte-Macc, La, industri. £ in dep. Ome, France, ar. Tersol, adjoining the Hansag marsh.

Festiniog, & Merioneth, N. Wales, nr. large state quarries, p. 9.62. [2] wide.
Fetlar, one of the Sheriand &/s., Scott., 6] m. kong by
Fez, a Mahom. "boly city," an impt. communical
contre, and one of the three capitals of Morocco,

situate 150 m. S. of Tangier, p. 150,000.

Fezzan, Turk. prov. (area 156,000 sq. m., p. 50,000) S.

of Tripoli; cap. Murzuk.
Fichtelgebirge, mtn. va. in Upper Francoma, N.E.
Bavaria, hughest peak, the Schneoberg, alt. 3,454 ft.
Fida, or Hida, prov. Japan, centre of Nippon Isl., p. 100,000.

Fiesole, anc. c. nr. Florence, Italy; straw plaiting;
Etruscan and Roman antiquities.

Pife, see, and co. E. Scotland, between the F. of Tay and Forth, area 492 sq. m., p. 207,734; co. t. Cupar, Fife Ness, ext. E. pt. Fife. Pigueras, sort L. nr. French frontier of Spain, prov.

Pagueras, sort t. nr. evencul trunter to spain, prov. Gerons; p. 12,000.

Riguièra, or Figueira Da Foz, wet. pl. at mouth of R. Mondego, Portugal; corn, wine, etc.; p. 6,000.

Plji (8,045 st. m., p. 140,000) archip, of e50 (mainly coral) isls. on S. Pacific; 1,350 m. N. of Auckland, 1,380 m. Nr. L. Sydney; Brit. Crown Colony; cap. Suva, on Vitt Levu isl.; fine harbr, for fornier cap. 1 emulte sucar. luminas. etc.

Suva, on Vitt Levu isi, fine harbr, for fornier cap, Levuka, sugar, lumanas, etc. [p. 3,228. Flley, wat. pl. on Filey Bay, E. coast Yorksh., Eng., Finale, or Finale Well Emilia, 2 in N. Italy, not Modena and the R. Po; p. 14,700. [p. 39,425. Finchley, a.s. dist. subarb (N.) to Londou, Eng., Findhorn, vat. on coast of Elgin, Scotl, ; also vil. on riv. F., which flows 62 in, into Moray Firth.

riv. F., which flows 62 in. into Moray Firth.
Findlay, mfg. 4. on Blanchaid R., Hancock co., Ohio,
U.S.A.; p. 28,500. [Norway; p. 1,250.
Findon, or Finnan, fishg, vst. on coast Kincardine,
Scotl. [Inner Hebrides; basaltic cols.
Fingal's Cave, on Staffa 1st., W. Scotl., one of the
Fingoland, dist. in Transkei, Cape Colony, S. Africa;

Fingoland, ass. in Transke, cape Colony, S. Kirkar, P. 45,000.
Finistère, dep. in N.W. France, urea 2,730 sq. m., p. 765,000; cap. Quimper; Cape Finistère at most W. point.
[Galicia Hinstèrre, c. extr. N.W. pt. of Spain, on the coast of Finland, Grand Duchy of the Russkit Empire, N.W. of Russka proper, N. of the G. of Finland, and bordering un Norway and Sweden, area 244,253

bordering on vorway and sweeters, sq. m., p. 2,700,000
Finland, G. of the E. arm of Baltic Sea, extending about 29 m. between Finland on the N. and the govts of St. Petersburg and Evinoma on the S. Finmark, prov. N. Nerway, inhabited by the Laps; cap. Hammerfest, N. most t. ni Europe.

Finsbury, industri. and commerci. ber. of London, Eng., N. of the c. proper, p. 87,976.

Finster-Aarhorn, with. in Switz. (14,020 ft.), highest pk.

Bernese Alps.
Finsterwalde, t on the Schakebach R., Prussia; iron

Florenzuola, t. in N. Italy, nr. Parma, p. 7,500.

Fiorenzuola, t. in N. Italy, nr. Parma, p. 7,500.

Firminy, mitg. t. Loue dep., France, nr. St. Etienne,

p. 16,500.

Pirozabad, f. dist. of Agra.—(See Ferezabad.)

Pirozabar, f. Punjab, India.—(See Ferezabad.)

Pirozabar, f. Punjab, India.—(See Ferezabad.)

Pirozabar, f. Povo. of Persia, with cap. F., 50 m. E.

Riruskah, sm. prov. of Persa, with cap. F., 50 m. E. of Teheran, p. 5,500.

Fishguard, r. N. Pembrokesh, Wales, p. 2,827; one of the Pembroke boroughs [R. Hudson; p. 4,500.

Fishkill, r. in Dutchess co., New York, U.N.A., on the Fitchburg, rextile and iron intg. c. on Nashua R., Mass., U.S.A., p. 37,800.

[of Simbourgh Hd. Pitthu Riead, prom. of S. Shetland, Scott, o in. N.W. Pittroy, R. of Queensland, falls into Keppel Bay, also suburb of Melbourne, Victoua, p. 35,000.

Flumne, 57t. of Hungary on the Adnatic, p. 40,000.

Flumnicino, 57t. Cent. Italy, at mouth of Tiber, 15 in., from Rome.

from Rome.

Rivizzano, L of Tuscany, prov. Massa and Carrara, on the W. slope of the Appanaue; minrl. springs; p. 14,50.

Flamborough Head, C. on Yorksh. coast. Eng.,: 2.

Flamborough G. on Yorksh. coast. Eng.,: 2.

Flambors, der. of Belgium, divided into two provs. of E. (1,758 sq. m.) and W. (1,249 sq. m.) Flanders; cap. Eruges and Ghent, (both of which see).

Flannan Isls., or Seven Hunters, group of islets (un-inhabited) 20 m. W. of Lewis, W. Scotl.

Fliatery Cape, on Pacific coast, U.S.A. (State of Washington).

Washington).

Fliche, La, /. in dep. Sarthe, France, ar. Le Mans; Fleet, lock and R., Sutherland, Scotl.; also Fleet, Water of, Kirkcudboglitch, Scotl.; also Pleet, Water of, Kirkcudboglitch, Scotl.; also Pleet, and Water of, Kirkcudboglitch, Scotl.; also Pleet, water of Kirkcudboglitch, Scotl.; also Pleet, water of the Mans of

Hants, Eng., p. 3,281; also par. nr. Weymouth, co.

Pleetwood, wat. pl. Lancs, Eng., at mouth of Wyre, Flennington and Kensington, bor. of Victoria, suburban to Melbourne, p. 11,400.

Subtrem to Actionate p. 11,200.
Flensburg, spt. of Prissal, on Bildic coast, Schles sig-Holsten; large coal and other trade; p. 50,000.
Flers, t. dep. Orne, nr. Alencon, France, brick and

talegrorks: p. 14,500. [Namar, p. 0,700. Fleurus, c. Belgram, prov. Haman, nr. Charleroi and Flinders, R. Queen hand, flowing to G of Carpentana Flinders, Range, mess. S. Australa, N. of Spencer

G., alt. 3,100 IL Fint, A. (p. 5.474), co. N. Wales (p. 92,720); also t. on Fint R., Mich., U.S.A. tumber trade, p. 38,530; also R. Georgaa, U.S.A. (400 n.), trib. of R. Chata-

hoochec. [1.379

hoodnee.

Plockton, colliery vol. m. Barnsley, Yorks, Eng., p.

Plodden, vol. Northumberland, Eng., on R. Till;

kamous battle 1373, James IV of Scotland defeated

by the Earl of Surrey.

Flotence, on R. Arao, Tuscany, 200 m. N.W. Rome;

io autiful environs, cathedral, university, birthpl, of

Pante and of Michael Angele jp. 233, 100; also t. m.

Alabama, on R. Tenuessee (p. 7,500), U.S. A.; also

t. Hampshire co., Mass, (p. 3,000) an Mill R.; also t.

in Larington co., S. Carolina, U.S. A., p. 4,250.

Florensac, d. nr. Montpeller, Hérault, France, p. 3,840.

Florentin, fort. & in Bulgaria, Widdin dist., nr. R.

Danuble.

Damibe

Flores, 24. Malay Arch., p. 300,000; also westernmost of Azores group, p. 16,000; also sml. isl. off Vancouver, 15 m. long; also t. in Guatemala on isl. in L. Peten, p. 6,000, also the sea between the Celebes and Flores, part of the 5 Pacific.

Floranopolis, set. of Brazil, in agr. centre, formerly

rained Descrio, p. 28,000.

Florida, state in S.E. of U.S.A., between Atlantic and G. of MCLICO, area 50,080 sq. in., p. 760,000; ap. Tallahassee.

Florids Channel, between Florida and Bahama Isls., course of "Guif Stream" from Mexico. Floridsdorf, or Florisdorf, the L. in govt. dist. of same

Florisdorf, or Florisdorf, clit 1. in govt. dist. of same name in Lower Austra, in Vienna, p. 37,000; luquer manuf.

Flume, The, picturesque gorge in the Francona Mins., Flumendosa, R. of Caghari, Sardina, Italy.

Flushing, yt. want. pt., and commerch, centre on Walcheron 1st, Holland, p. 20,000; also sml, pt. Falmout!

Harb., Cornwall, Fing.; diso vat. pl. on Flushing Bay, New York, U.S.A., p. 12,500.

Fly, large and unexploited K in New Guinea, southern the enutying in G. of Papua.

pt. emptying in G. of Papua

Pochabers, vil in mouth of Spey, Elgin, Scott., p. Focsani, or Foktchany, on the R. Milkov, Putna dist., Roumania, fortified and industri., p. 25,500.

dist, Roumania, fortified and industrl, p. 25,500. Poggia, Luy, industrl, t. (p. 77,000) and prov. (p. 407,000) Istaly, in Apulla, area 2,953 sq. m. Poggo, ½ar., in. Dims, Hervick, Scoth; also name of a volcainc isl. of Cape Verde gry, Atlantic Ocean; also snil, pt. on Pogo Isl, Newfoundland. [p. 5,000. Fohr, isl. on W. coast of Schleswig, Prussa, in N. Sea, Posane, L. nr. Arezzo, Tuscany, Italy, p. 8,146. Foix. A. Franch Pyrenees, in: Ariege, p. 7,000. Fo-Kien, prov. in S.E. China on Pacific (48,000 sq. m., p. over 20,000,000); cap. and ch. port Foochow. Produces much toa, camplior, etc.

Produces much tea, camphor, etc.

Pokshani, or Foktchany.—(See Focsani.)

Foldwar, industri. t. in Hungary, on R. Danube, p.

Foligno, or Fuligno, t. in Unibrat, Italy; remarkable
grotto; numerous factones; p. 12,000.

Folkestone, wat. t. and steam-packet stn., Kens.,

-70 m. from London, and 29 m. from Boulogne, p.

33-495.

Found du Lac, mftg. t. on Winnebago Lake, Wisconsit,
Fonsagrada, industri. t. in the E. of the mtns., prov.

Lugo, Spain, on R. Navia, p. 17,000.

Ronseca, G. of, inlet on Pacific est. of C. America, bordering on San Salvador. Fontainebleau, Ł. on R. Seine, 35 m. S.E. of Paris. Magnif. forest (area 42,500 acres) and palace, resid. of Pres. in summer; p. incuding minitary) 14,500. Fontarabia, 562. at mouth of R. B. flasson, on French frontier of Spain, p. 2,750. [On R. Vendee, p. 10,000 Fontenay-le-Comfe, mudsil. L. in Vendee, W. France, Fontenay-Sous-Bois, L. in dep. Seine, France, Suburban to Paris E., p. 10,500. Fontenoy, L. in. Tournay, Belgium. Battle, 7745. Saxe defeated the Allies.

Fontency, J. nr. Tournay, Belgium. Battle, 1745, Saxe defeated the Allies. [Port. E. Africa. Fontesvilla, 171. stn. at head of navig Pungwe R., Fontervault, J. in France, dep. Maine-et-Loire, p.

3,300.

Foochow, or Fuchau, treaty part and cap. of Fokien prov., Chine; great tea-exporting centre; p. (nearly) p. 8,500. Forbach, t. nr. Saarbruck and Metz, German Lorraine,

Forchheim, fort. 1 m Bavaria on the Ludwigs Canal, Potenneum, tort. I in Bararia on the Lunwigs Cana, p. 5,500.

Fording bridge, mkt. I. on R. Avon, S. Hants Eng., Foreland, N. and S., two headlands on E. coast of Kent, Eng.; lighthouses Forest, I. in Pennsylvana, U.S.A., p. 3,200; also vil. nr. Liege, Belgium, p. 4,200.

Forfar, co. I., jute manut. of Forfarsh., E. Scott, p. 10,88,140.

1, 281.410.

p. 281.419.

Forio, J. on west coast of Ischn, Italy, p. 7,000 Fo.li, anc. z. in Emilia, Italy, silk factories, iron works; p. 44,000.
Formby, J. nt. Jounceston, Tasmania, p. (dist.) 5,950.
Formentera, one of the Baleanic Isla., S. of Ivica,

Formosa (19,429 vd. m. p over 3,000,000), fat. of feet of the auc. Formosa, t m. p over 3,000,000, fat. of feet. of China, cede to Japan in 1807; cap. Taiwan. Formosa contains some alluvial plane, but is mainly formosa contains some alluvial plane, but is mainly formosa contains some alluvial plane, but is mainly formosa contains some alluvial plane. mountainous and aftorested, and under Japanese influences something is being done to detelop the resources of the island. Formosa is also the name

session cer in the Margentine Republic, bordering on Bolivia and Paragnay, area 41,40.59 m., p 5,000. Forres, f. figim, Scott, one of the Burghs of the Inventes group, cattle trade, p 4,421 Forst, industri f. Prusson, on an 181. of R. Neisse; cloth and backskin factories, p, 40,570. Fortaleza, 376, prov. Ceará, Bizari, p 18,000. Fort Augustus, 246, nr. Gleimore, on Loch Ness, Scott, I ont now an Abbey.
Fort Benton, 811. f in Chotean co, on the Missouri R, N. Montana, U.S. A; the trade.
Fort Bedo, 172. xtn., Hudson Bay.
Fort Colling, f, in Colorado, U.S. A, p. 3,100
Fort de France, formerly Fort Royal, cap. of Martinger, Fr. W. Indies, p. 10,500.
Fort Dodge, f. on Des Montes R, Iowa, U.S.A., in rich agr. country, p. 33,500. Taken by Gaint in the Civil War of 1862.

Civil War of 1822.

Fort Fisher, at entr. to Cape Fear R., N. Carohna, U.S.A. Great battle, 1805.

Fort Garry, old name of Winnipeg, Manitola, [Firth. Fort George, N E. Inverness-shire, Scotl., on Moray Fort Grattle, t. in Michigan, U.S.A., p. 3120.

Fort Howard, t. on Fox R., Wisconsin, U.S.A., Caronella, U.S.A., Wisconsin, U.S.A., Caronella, Carone

Fort Howard, t. on Fox R., Wasconsin, U.S.A., p. 5,000.

For Madison, cap. of Lee co., Ipacking, p. 10,000.

For Madison, cap. of Lee co., Ipacking, p. 10,000.

Fort Monroe, Virginia, at the mouth of the James R., the largest military work in the U.S.A.

Fort Rose, t. co. Ross, Scoth, on N. coast Moray F.; one of the Inverness Burghs.

Fort Salisbury, Mashonaland, African milway centre.

Fort Smith, c. of Sebasthin, co., Alkansay, U.S.A., on the Mainaton R.; p. 10,000; good trade

Fort Smith, c. of Sebasthin, co., Alkansay, U.S.A., on Arkansas R.; railway centre; p. 32,075.

Fort Summer, mil. poxt. in Charlestown Harbour, S.

Carolina, U.S.A.; captured by Confederates, 1801.

Fort Wayne, cap. Allen co., Indiana, U.S.A.; railway carriage bidg, and machine slops; p. 64,000.

Fort William, par. Inverness-shire, Scotl, at base of

Ben Nevis, p. 2,000; also t. of Thunder Bay dist.,

Ontano, Canada: large grain export; p. 17,000.

Fort Worth, c. Tarrant co., Texas, U.p. 7,3,12

Fort Yukon, Alaka, irading stm. on K. Yukon, Just on the Arctic Circle.

Trange:

Fortescue, R., W. Australia, rising in the Hamersley Porteviot, vol. 7 m. from Perth, Scotl., the old capital of the Picts.

of the Picts.

Forth, R. (65 m.) and Firth, Scotl.; extending from Alloa E. for 50 m. The R. rises on Ben Lomond, and empries into the estuary or Firth at Alloa. The Forth Bridge, over 8,000 ft. long, crosses the Firth at Forth and Clyde Canal, Scotl.

Gueensferry.

Forth, Carse oi, the disk. on the bank of the Forth from Boiness to Gartmore.

John Review and Carthage of the Alloand of the Scotle of the S

Fortune Bay, an milet of the Atlantic, on the S. cst.
Fossano, L. prov. Cunea, nr Turni, N. Italy, p. 8,000;
Austrians here defeated the French, 1700.

Fossombrone, t. Italy, in the Marches, to m. from

rossomerone, 2. Italy, in the Marches, to in. from Urbino, p. 8,000.

Fostoria, e. of Seneca co., Ohio, U.S.A.; large flour Fotheringay, vil. on R. Nen. Northampton, Eng.; Mary Queen of Scots beheaded in F. Castle, 1587.

Fougeres, e. in dep. Ille-et-Vilaine, W. France, one of the strongest places in Brittany; ruined feudal castle;

the strongest places in Britany; runner section, 2,150; shoe manuf, pov., Haute Saône, p. 6,000.

Fouget alles, t. in France, prov., Haute Saône, p. 6,000.

Foula 1sl., one of the sinaler Shetlands, Scotl., westward of main group.

Foulness Island, at mouth of R. Crouch, S. Esser, Foulwind Cape, S., 15t. of New Zealand, Fountains Abbey, fine *rinn, Cistercian, W.R. Yorks, Fure. nr. Ruon.

[Nevers ; ironworks; p. 6,500.

Fountains Adder, his ruin, Listercian, W.R. Yorks, Eng., nr. Ripon. [Nevers; ironworks; p. 6,500. Fourchambault, vil. in France, on the Loire, nr. Fourmes, t in France, dep. Nord, nr. Valenciennes; wool-combing, and glass works; p. 14,500. Foveaux Strait, New Zealand, separates south island from Stewart Island.

Fowey, sail aft. in Cornwall, Eng., nr. mth. of R.

Fowey, p. 2,750
Fox Channel, to N of Hudson Bay, between Baffin Land and Melville Pan.

Land and Metrille P. II.

Fox Isl., one of the Aleutian groups.

Fox Isl., one of the Aleutian groups.

Foxton, sail. t. m New Zealand (north isl.) on
Manawath R. [R. Foyers, in Fort Augustus.

Foyles, Jails, Invenies, Scotl., cast of Loch Ness on
Foyle, Lough, titlet of the Atlantic, the estuary of
R. Foyle, between Donegal and Londonderry co.'s,

Lealand [P. Foyles] Ireland.

Fraga, t on the Cinca, nr. Huesca, Spain; fruit trade; Fraisons, vtt. on R. Doubs, dep. Jura, France; iron-

works; p. 3.120.

Framingham, industri. t. nr. Boston, Mass., U.S.A.,

[D. 2.740.

Pramaser A III. Doston, Mass., U.S.A.,
Framlingham, mkt A in E. Suffolk, Eng., nr Ipswich,
Francavilla, industri L. prov. Lecce, W. Italy, nr.
Brindisi, p. 20,000.
France, powertul Republic (former monarchy and
Empire, W. Europe, bounded N. by Belgium and
English Channel, W. by the Bay of Biscay, S.
the Property of the Mediterranean, E. by Italy,
Switzerland, and Germany. Greatest length about
Goo in., greatest breadth sao in. Area 2007, 456, 200 or all times size of Eng. and Wales. F. is an ided into 87 deps; ch. t's are Paris (the cap., next to London the largest c. m Furope), Bordeaux, Marseilles, Toulon, Brest, and Havie, all of which see Her colonies include Algeria, Cochin China, Senegambia, Reumon, Pondicherry, Martinique, and Guadeloupe, besides three protectorates—1 univ. Annum, and Tonquin. P. of the Republic 39,500,000, one-third of whom live in towns.

whom her in towns.

Prancistown, gold min. t. in Rhodesia, 125 m. S. of Bulawayo, S. Africa.

Prancoforthe, t. nr. Syracuse Sicily, p. 6.500.

Pranconia, N. part of Bavaria, formerly a sep.

European country.

Praneker, t. in Friesland, prov. of Holland, 10 m. W. of Leenwarden; are, 10 nd. portery and shipplifg.

of Leeuwarden; agr. prod., pottery and shipbldg.,

p 7,500. Frankenberg, industri. t. Saxony, nr. Chemnitz, on R. Zschopau, p. 12,000; also t. in Hesse-Nassau, nr. Cassel, p. 2,750.

Frankenhausen, t. in Schwartzburg-Rudolstadt, Germany; salt works, pearl button making, p. 7,000.
Frankenstein, industri. t. Prussa. Silesai, nr. Breslau, p. 8,500.
Frankenthal, mftg. t. Bavaria, Palatinate, nr. Mann-Frankenhald, mtss. region on borders of N. Bavaria, nr. the Thuringian Forest.
Frankfort state and of Kantucker. U.S. 4.

nr. the Thuringian Forest.

Prankfort, state agh, of Kentucky, U.S.A., on the Kentucky R., p. 10,000; also c. in Clinton co., Indiana, U.S.A., p. 7,500; also c. in Clinton co., Indiana, U.S.A., p. 7,500; also smir, t.'s in New York, Kansas, Maine, and Michigan.

Prankfort-on-the-Main, c. on R. Main, a trib. of the Rhine. A "Free City" until 1866, when it was annexed to Prussia, prov. Heese-Nassan; Indiqs of 18th German Army Corps; restored cathedral, thriving trade, p. 416,000.

Prankfort-on-the-Oder, t. in Brandenburg, Prussia, 50 th, from Berlin, a great railway centre, p. 68,000.

I've three famous annual commerci, fairs of this old Hanesatiet, have declined.

The three famous annual commerci, fairs of this old Hanesatic, have declined.

Franklin, industri. £. on Allegheny R., Pennsylvania, U.S.A., in the oil region, p. 7,500; also t. of Norfolk co., Mass., U.S.A., p. 5,100; also c. of Merrmac co., New Hampsh., U.S.A., p. 6,000; also so introduces in Ind., Ohio, Kentucky, Tenn., Louisiana, Maine, and Vermont.

Franzensbad or Kaiser-Franzensbad, wat. pl. nr. Eger, N.W. Bohema; salue springs, p. 2,500.

Franzensfeste, Austran fortress, in gowt, dist., Brixen, Tvol.

Tyro.

Franz Josef Fjord, inlet on E. coast, Greenland.

Franz Josef Land, archip, in Arctic Ocean, N. of

Nova Zembla; disc. by Austran exped. in 1873;

Mova Zembla; disc. by Austran expect. in 18/3; extending W. to a dist, as yet undetermined. Praecati, 2. Italy, 12 m. S.E. of Rome, famous villas and archaeological remains, p. 7,000. Praser, R. Brit. Columbia, flowing S.W. to G. of Georgia (450 m.) with famous salinon fisheries. Praserburg, 1. agr. centre of C. Colony, S. Africa, supply stn. for the stock raisers between Calvinia and Carnaryon, p. 3500.

Praserburgh, coast f. N.E. Aberdeensh., Scotl, one of the chi, stns. of herring fishery, p. 10,574.

Prazerville, 2021. pl. in Tenuscousta co., Quebec, Canada, on St. Lawrence R., p. 5,500.

Prata Maggiore, f. 6 in from Naples, Italy, p. 12,000.

Prauenburg, sm. t. on the Frisches Haft, in: Königsberg, F. Prussia, p. 3,500.

Frauenfeld, f. Switz, cap. of canton Thurgau; castle cotton factory; p. 6,500.

rrauenieid, a Switz., cap. of canton Thirgau; castle, cotton factory; p. 6,500.
Fray Bentos, a. on Uruguay R., U. uguay, 50 m. from Frechen, c. nr. Düsseldorf, Rhenish Frussia, p. 3,640.
Fredensborg, vol. m Zealand, Denmark, with palace built m 1720, in comment. of the peace with Sweden.
Fredericia, 596, on E. coast Jutland, Denmark, at entr. to Little Belt; brewing, shipblidg., p. 12,000.
Frederick, industri. c. of Maryland, U.S.A., cap. of F. co., p. 11,500.

Frederick, industri. c. of Maryland, U.S.A., cap. os F. Co., p. 11, 1500.

Fredericksburg, d. on Rappahannock R., Virguia, U.S.A., scene of severe Federal robuif, Civil War, p. 5, 500; also t. C. Colony, S. Africa, on Golain R. Frederickshaah, sail, 5th on W. coast of Greenland. Frederickshaah, sail, 5th on W. coast of Greenland. Frederickshaah, sail, 5th on W. coast of Greenland. Frederickshaah, 5th on W. brunswick, Canada, on R. St. John, p. 7, 500.

Frederikshaaf, 5th on W. Christiania, Norway, p. 12,000. Charles II. of Sweden killed here 1718.

Frederikshaah, 5th and fishing centre on N. coast of Jutland, p. 6,500.

Frederikasias va. 30°. a. Juliand, p. 6,500.
Frederikatadt, t. (ftd.) at m. of R. Glommen, Norway, nr. the famous wat. pl., Hanko: p. 15,500; also t. on the Duna, in Courland, Russia, p. 6,400.
Frederikasværk, 5tb. Denmark (fort.), on Ise Fjord, com from Couenhagen, p. 5,740.

Frederiksværk, 19t. Denmark (fort.), on Ise rjora, 30 m. from Copenhagen, p. 5740.
Fredonia, 4. in New York State, U.S.A., p. 4,200.
Freehold, 4. in Monmouth co., New Jersey, U.S.A., p. 3,000.

[colliery dist., p. 6,000.
Freeland, bor. Luzerne co., Pennsylvania, U.S.A., in Preeport, mftg. 4. Ill., U.S.A., on the Pecatonica R., p. 14,800. p. 14,500. [Africa, p. 35,000. Freetown, or St. George, cap. of Sierra Leone, W. Fregenal de la Sierra, i. in Spain, nr. Badajos, p. 8,000.

Freiburg, busy t. in Baden, Black Forest, Germany, with many fine bidgs, and fountains, p. 85,000; also t. in the Dresden circle of Saxony, libry., and public institus., p. 36,000; also cauton of Switzerl., area 644 sq. m., much forest and uiproductive land, p. 39,000; also the cap, of canton, between Berne and Lausanne, fine viaduct and bridges, p. 16,000. Freiburg ander Unstrut, t. nr. Lepisc, Saxony, on R. Unstrut, castle of Neuenburg, p. 5,000. Freiburg unterm Firstenstein, t. in prov. Silesia, Prussa, nr. Breslau and the famous castle of Furstenstein, p. 10,000.

Prussa, nr. Breslau and the famous castle of Furstenstein, p. no.000. Isprings, sunmer resort; p. 8,000. Prelenwalde, 4. prov. Brandenburg, Prussia; medic, Freising, f. in Upper Bavaria, Germany, on R. Isar; old monastery, royal model farm; p. 10,500. Preistadt, f. in Lower Silessa, p. 4,800; also t. in W. Prussia, nr. Manenwerder, p. 2,400. [B,450. Preistadt], f. in. K. Waag, nr. K. Nonorn, Hungary, p. Preiwaldau, f. in Silessa, Hungary, nr. Olmutz, p. 6,500. Fréjus, coast f. dep. Var. France, the anc. Forum Julia; here Napoleon embarked for Elba, 1814, p.

Frejus, coast I. dep. Var, France, the anc. Forum Juln; here Napoleon eubarked for Elba, 26td, p. 3,500.

[Cenis tunnel runs. Frejus Col, de, the Alpine pass under which the Mont Fremantle, 29t. at mouth of Swan R., W. Australia, 12 m S.W., from Perth, p. 24,000.

Fremont, t. on Plate R., Nebraska, U.S.A., cap. of Dodge co., p. 8,000; also c. on Sandusky R., Ohio, U.S.A., in petrol, region, p. 9,100.

Fremont Peak, highest pask of Wind River range, in Wyoming terr., U.S.A., #. 13,550 ft.

French Broad, R. (29 m.) in E. I enniessee and N. Carolina, U.S.A.; pic. scenery.

French Gongo (25,000 sq. in., p. 8,000,000) region on W. coast of Equat. Africa; extends inward to the Congo and L. Chad; criac; extends inward to the Congo and L. Chad; criac; extends inward to the Congo and L. Chad; criac; extends inward to the French Guiana. (See Cayenne.)

French Guiana. (See Cayenne.)

French Guiana. (See Cayenne.)

French M., Ont. Canada, the outlet of L. Nipissing into Georgian B. (L. Huron). [U.S.A. p. 3,000.

Frere, station on Natal main line between Estcourt and Colesso, S. Africa.

Freshford, par., in. Bath, Somereet, Eing., p. 1,000.

Freshwater, vol. and vart. pl. W. and of Isle of Wight, Eing., p. 3,000. [p. 6,500.

Fresnes, A in France, dep. Nord, nr. Valenciennes, Fresnello, A. Zacatecas State, Mexico, silver mines,

riesmano, c. Lacatecas State, Mexico, silver mines, p. 24,892. [p. 12,000.
Fresno, c. in farming and fruit dist. California, U.S.A., Friedberg, c. in Upper Hesse, on R. Ust, in: Frankforton-the-Mann, p. 5,500; also t. on R. Ach, Upper Bavaria, in: Augsburg, p. 2,750.
Friedek, f. on R. Ostrawitz, Austrin. Silesia; textile industry, Archduke's chateau, p. 10,000.
Friedland, c. on R. Wittich, N. Bohemia, with castle, p. 5,500; also t. E. Prussia (battle, Napoleon defeated the Allies, 1807); also c. in N.E. Mecklenburg-Streilitz, or Stettin, p. 5,700.
Friedrichroda, a Thuringian forest revoré, 9 m. from Gotha, Germany, p. 4,500.

Friedrichroda, a Thurnigian forest revor., 9 m. from Gotha, Germany, p. 4,500. [Wartemburg, p. 4,750. Friedrichschafen, sml. t. on the L. of Constance, Friedrichschafen, sml. t. on the L. of Constance, Friedrichschafen, Frince Bismarck's chateau, 17 m. S.E. Friendly Isls. (See Tonga.) [of Hamburg, Friendland, prov. N. Holland; area 1,122 sq. m, p. 303,000; cap. Leenwarden. Frigidus, sml. R. trib. of the R. Isonzo, Austria; the modern Wiphach, called "Ingalus" for its coldness. Frische Heff shallow testinate in case on Balic set.

Prische Haff, shallow treshwater lagoon on Baltic est. of Prussia, 53 m. long, 4 to 11 m. broad, and 372 sq. m. ın area.

m. in area,

Frislan Isls., chain stretching from the Zuyder Zee
E. and N. to Jutland, along the coasts of Holland,
Hanover, Oldenburg, Schlieway and Holstein,
Frobisher Bay, iniet in S. Baffin Land, Arctic America,
extending co. m. between Cumberland Sound and
Hudson Strag.
Frodsbam, mkt. C. Cheshire, Eng., 10 m. N.E. Chester,
Frobsdorf, castled vil. 30 m. S. of Vienna; many years
the retreat of the French Legitimist leaders.
Frome, nkt. L. Somerset co., Eng., in. Bath, p. 10, 502.
Frosinone, industri. L. on R. Cosa, Italy, 32 m. N.N.W.
Gaeta, D. 10, 500.

Gaeta, p. 10,500.

Frostburg, industl. £ in Maryland, U.S A., p. 4,200. Fucino, £. (now drained), prov. Aquila, Central Italy, formerly 37 m. round. [p. 8,000.

Fuente-Alamo, industri. t. 18 m. from Murcia, Spann,
Fuente-Cantos, industri. t. nr. Badajos, Spain, p. 7,240.

Puente-Ovejuna, 7. in lead-mining dist. of Cordoba prov. Spain, p. 10,000. Puenterralai, anc. Spanish 4. on French frontier, nr. Bay of Biscay, p. 6,500. Puentes de Onoro, vr. Salamanca, Spain; battle 1811.

Fuentes de Onoro, vs. Saiamanca, Spain; Datue 1821, Wellington victorious over Massena. [m., p. 11.500. Fuerteventura, 1s. of the Canary group: area 663 sq. Fuji-Yama (alt. 12,370 ft.), extinct vol. Japan, 60 m. S.W. of Tokio, pilgrun resort. Fu-Kien (Chinese prov.). [See Fo-Kien.) Fukui, £. m prov. Echizen, Nippon, Japan; suffered severely from catthquake in 1891-1892; flourishing undustries p. gr. 000.

severely from eatinquike in 1897-1899; nourisning industries, p. 51,000.

Fukuoka, £ in isl. of Kinshui, Japan; sRk-weaving; Pulda, £ (industri.) nr. Cassel, Hesse-Massai, Prausia, cathedral; p. 17,500.

[Thames; p. 153,355.

Fulham, S.W. suburban bor, of London, Eng., on K. Pulton, cap. of Calloway co., Mussouri, U.S.A.; p. 5,000.

Pulwood, industri. A in Lancs. Eng., ar. Preston; p. Pumay, A in the Ardennes, France, on R. Meuse;

slate quarries; p. 6,200.

Punchal, cap. of Madeira; wine: p. 31,000.

Pundy, Bay of, total between Nova Scotia and New Brunswick.

Funen, second largest &l., Denmark, in the Baltic S.,

area 1,320 sq. m., p. 250,000; cap. Odense. Fünf haus, drst. of Vicana, Austria, p. 46,000. Fünf kirchen, c. Hungary, to m. W. of Maria There-slopel; ne Romanesque cathedral; p. 42,000 Furneaux, 1st. group in Bass Strait, belonging to Tasmania. [and linen factories ; p. 6,000. Furnes, industri. l. in Belgum, in. Bruges; tamieries Furness, drst. N.W. Lancs, Eng., between Morecambe Ray and the Insh Sea. Fürstenfeld, l. nr. Gratz, in Styria, p. 3,950 Fürstenwalde, industri. l. on K. Spree, Prussia, prov.

Brandenburg, p. 15,000.
Furth, £ nr. Nuremberg, in middle Franconia, Germany; brewing, chromo-lithocyaphy, p. 55,000.
Furtwangen, f nr. Freiburg, Baden, p. 4,000.
Furty and Hecla Strait, between Fox Chan, and G. Gothnia Arctic America.

Pury and Hecla Strait, between 100 of Bothnia, Artic America. Japanese traders. Fusan, open fort S.E. cst. Corea; dominated by Pusignano, vol. in Emilia, Italy, on R. Senio; p. 5,200. Futa Jalon, upland dist. in Senegambia, Fr. W. Africa; Puttak; A. nr. Peterwardem, on R. Dambe, Hungary, n. Acon.

p. 6,000. [E. of Clyde, Fyne, loch on Arryle cst. W. Scotl., an arm (40 nl.) of Fyvie, par. on R. Ythan, Aberdeen co., Scotl., p.

3,547. Fyzabad.—(See Faizabad.)

Gablonz, A. N. Bohemia, on R. Neisse, chief seat of Austrian imitation pearl and jewellery industry, p. 24,000.

Gaboon, or Gabun, French Colonial dist. W. Africa, on E. coast of Gulf of Guinea; products, ivory, ebony, palm oil, etc. p. 8,500.

ebony, pain on, etc. Gabrova, J. in Bulgaria, on R. Jantra; cloth industry; Gadag, or Garag, f. in Dharwar dist., Bombay, Brit. India; cotton and silk weaving; p. 24,000.
Gadara, the mol. Unim Ken, a c. of the Syrian Decapolis, fortified, extensive ruins, hot sulphur

p. 8,500. Gadawara, f. in Narsingphur dist , Cent. Prov., India, Gadaden, industri. f. on the Coosa R., Alebama,

U.S.A., p. 4,700.
Gadshill, vil. Kent, Eng., between Gravesend and Rochester; immortalised by Shakespeare; here also

Dickens died in 1870.

Diskens died in 1270.

Gaeta, 374. fort. prov. Caserta, nr. Naples, the anc.
Portus Caieta; cathedral, p. 28,000.

[p. 2,000.
Cagetown, t. on R. St. John, New Brunswick, Canada,
Cagliano, t. in prov. Catania Sicily Italy, p. 5,100.

Gahmar, t. in Ghaziper dist., N.W. Prov., India, az. Galmar, t. in Ginziper dist., N.W. Prov., India, sr. R. Ganges, p. 10,500. Gaillac, t. dep. Tarn, France; noted for wises; Gallion, vt. dep. Eure, in: Rouen, France; royal château; p. 4,200. [U.S.A., p. 8,500. Galneaville, t. nr. the Red R. in Cooke co., Texas, Gainford, industri. t. in co. Durham, Eng., on R. Tees, p. 7,500. Gainsborough, mkt. and mfig t. on R. Trent, Lincs, Gainford, Lake, S. Australia, 1,300. long, 23 m. bread, Gairloch, per. and tistet on Ross coast, N.W. Scoti, p. 0, 6787, 2377.

p. of par., 3,377.

Gairn, R., of Scotl., co. Aberdeen (20 m.), affit. of R.

Dee, nr. Ballater. [p. 11,415. Dee, nr. Ballater. [p. 11,415. Gajssin, or Hajssin, £ in Podolia, Russia, on R. Sob, Gala, R. (20 m.), 1716. of R. Tweed, rises in Midlothian,

Galapagos, grp. of volcanic isles in Pacific O., 600 m. W. Ecuador, and belonging to that State; peculiar

fauna and flora

fauna and nora.

Galashiela, f. Seikirksh., Scotl., on R. Gala; tweads and woollen mfig.; p. 14,521. [foreign trade. Galasta, populous sewers of Constantuople, seat of Galasta, anc. new. of Asia Mmor, occupied by the Gauls in the grd cent., included in the mod. prov. of Angona.

Angora.

Galatina, t. in Apulia, prov. Lecce, S. Italy, D. feanGalatine, t. in Italy, o m. from Gallipoh, p. 6,500.

Galatz, large port and t. in Roumania, on R. Danube;
gram trade, govt. docks; p. 6,3000.

Gala Water.—(See Gala R.)

Galena, c. on the Fevre River, Ill., U.S. A., formerly
lead niftg. centre, p. 5,000; also c. of Cherokee
co. Kansav, zinc mining, p. 14,500.

Galesburg, c. m agr. regn. of Knox co., Ill., U.S.A.,
p. 33,000.

Galicia, old *prov. N.W. Spain (area 20,876 sq. m.) now forming provs. of Corunna, I ugo, Orense, and Pontevedra; also prov. of Austrian Poland; area

Pontevedra; also prov. of Austrian roland; area an 30 sq m, p. 7,500,000; cap. Leinberg.
Galilee, N., dev. of Palestine, in Roman period, S. of G., on Lake of Gennesarct (otherwise Sea of Tiberias), the mod. Bahr Tabariyeh; 73 m. long, greatest width 64 m., traversed by R. Jordan Gallon, c. of Crawford co., Olno, U.S.A. ry. and iron-

wks., p. 7,500.
Gallaland, dist. E. Africa, S. of Shoa, partly Brit. and partly Ital.; native p. (about) 3,000,000; related to the Somalis and Massais.

Galle, or Point de Galle, opt. on S.W. coast of Ceylon,

Galle, or Point de Galle, oft, on S. W. coast of Ceylon, extensive trade, p. 34,000.
Gallinas, R. and dest. of the Grain coast, British Africa; formerly a slave-trade centre
Gallinas, Punta, Colombia, N.-most pt of S. America, Gallipolf, oft. in prov. Lecce, S. Italy, p. 11,000; also spt. in European Turkey on the Dardanelles,

Gallipoli, 9st. in Frov. Lecc. S. May, p. 1,000.

Sallipoli, p. 1,000.

Gallipolis, p. 3,000. Ohio, U.S.A., p. 5,500.

Gallipolis, c. of Gallia co., Ohio, U.S.A., p. 5,500.

Gallitzin, c. in Fennylvania, U.S.A. p. 2,500

Gallican, c. in Fennylvania, U.S.A. p. 2,500

Gallican, c. in S.W. Scottl., including the co.'s of Wictown and Kirkcudbright; Mull of Galloway, extreme S.W. t. of Scotland.

Gallizzo, c. nr. Florence, in Central Ituly, p. 6,500.

Gallozo, c. nr. Florence, in Central Ituly, p. 6,500.

Gallozo, c. c. Ayr, Scottl., on R. Irvine, nr. Kimar-Galt, mfg. c. prov. of Ontano, Canada, on Grand R., p. 10,200.

Galtee Mins., range in W. Irchand, between Tipperary Galva, sm. industri. c. Illinois, U.S.A., p. 3,000 ft.

Galveston, 59c. Tevas, U.S.A., on C. Isl., Gulf of Mexico; great cotton port; p. 38,500.

Galveston, 19t. Tevas, U.S.A., on C. Isl., Gulf of Mexico; great cotton port; p. 38,500
Galway, 19t. (area 2.452 sq. m., p. 181,680), on Galway
Bay, Connaught, W. Ireland; seat of Queen's
College fishery; cap. of same name, p. 13,249
Gambia, R. (1,200 ml.) and Brit. Protectorate (area 8,500 sq. m.), W. Africa; cap. Bathurst (9.12).
Gambia Isla, French grp. in the Pacific O.
Gamboto, A. nr. Novara, Italy, p. 7,500.
Gamboto, R. on the Gt. Karoo plateau, Cape Col., S.
Gamanoque, £ prov. Ontario, Canada, on the St.
Lawrence, p. 3,500.

, or Salagrami, R. of Nepaul and Brit, India (400 m.), trib. of Ganges, which it joins nr. Patna.
Gandia, & nr. the Mediterranean in Valencia, Spain, p. 10,000.

ando, f. and African native State, now included in Brit, Northern Nigeria; area of old State 78,457 sq.

Brit, Northern Nigeria; area of old State 78,457 sq. m., estimated p. 55,00,000.
Gandya, industri. J. in govt. Tiflis, Russia, p. 12,000.
Gandya, industri. J. in govt. Tiflis, Russia, p. 12,000.
Ganges (i., 500 m.), the gt. sacred R. of India, rises in an ice-cave in Himalayas and flows through the plain of N. India into B. of Bengal, which it enters by several delta mouths, on one of which stands Calcutta. Navigable from Hardwar, for large ships from Allahalad. Also the name of a t. in dep. Hérault, France, near Montpeler; p. 5,000.
Gangyl, J. in Palermo, Sicily, the anc. Enguium; Cretan antiquities, p. 12,000.
Gangpur, 57th. state in India, Chota Nagpur, Bengal frontier; area 2,48 sq. m., p. 108,500.

frontier; area 2,484 sq. m., p. 108,500.

Ganjam, dist. Madras Pres, India; area 6,037 sq. m.,

p. over 2,000,000; prni. product rice; cap. Rerhampur; also G., t. in G. dist., on B. of Bengal, p. 5,800. Gap, industri. (silk and other textiles) c. Hautes Alpes dep. S.E. France, on R. Luye, the anc. Vapincum;

p. (communal) 10,500.

p. (communal) 20,500.

Gapan, f. in prov. Nueva Ecija, Luzon, Philippine
Isis., tobacco-growing dist., p. 20,000.

Gard, Medit deß. France, area 2,270 50, m., p.
478,500; cap. Nimes.

[greatest depth, 1,735 ft.
Garda, L. on Alpine border of Isly, area 143 sq. m.

Gardiner, c. of Kennebec co., Maine, U.S.A.; timber Gardiner, c. of Kennebec co., Maine, U.S.A.; timber and rice industries, p. 5,500. [manuf.; p. 12,000. Gardiner, st. in Worcester co, Mass, U.S.A.; chair Garelock and Garelockhead, sade and vss. Dumbarton, S.W. Scot., Firth of Clyde. Garhwal, Himalayan stss. N.W. India, contains sources of Garges; area 5,500 sq. m., p. 430,000; also native Indian State, N.W. provs., adjoining foregoing; area 4,564 sq. m., p. 268,000. Garnett, industri. st. in Kansas, U.S.A., impt. ry. centre, p. 4,560.

centre, p. 4,760.

Aronne (350 m.), R. S.W. France, rises at foot of Mt. Maladetta (Pyrenees), and 20 m. below Bordeaux enters the Gironde [p. 439,500. Garonne

Bordeaux enters the Gironde
Garonne, Haute, dep. of S. France, area 2,458 50, m.,
Garrett, J. in Indiana, U.S.A., nr. Auburn c., p. 5500.
Garrow, or Garo Hills, hill dist. in N.W. Assam,
India; area 3,270 50, m., p. 1500.501n; old castle,
barrack, p. 5,000.
Garrucha, 19t. prov. Almeira, Spain; old castle,
barrack, p. 5,000.
Garrus, prov. Persia, Gween Khamseh, Azerbaijan
Garry, K. in Scotl., Inveness co., flowing into
Caledonian Canal; also R. in Scotl., co. Perth,
flowing through Glengarry to R. Tummel.
Garston, 19t. on R. Mersey, 51 m. S. of Liverpool,
Eng., p. 17,500.

flowing through Glengarry to R. Tummel.
Garston, 24. on R. Mersey, 5\( \frac{1}{2} \) m. S. of Liverpool,
Eng., p. 27,500.
Gartokh, trading \( t \) in Western Tibet, p. 13,400.
Garwa, \( t \) on Douro R., Lohardaga dist., Bengal,
India, p. 6,600.
Gasconade, \( R \) (200 m.), in Missouri, U.S.A.
Gascony, anc. \( dist. \) and Duchy of S.W. France;
comprises the pres. deps. of Landes, Gers, and
Hautes-Pyránées, with parts of Haute-Garonne,
Lot-et-Garonne, and Tarn-et-Garonne.
Gaspe, \( f \) em. \( \) (uebe) on S. side of St. Lawrence, p. (of
dist.) 25,000.
Gastein, \( uebe), on S. side of St. Lawrence, p. (of
dist.) 25,000.
Gastein, \( uebe), in duchy of Salzburg, Austria, famous
for mineral springs; kurhaus, etc., p. 4,500.
Gatchina, t. \( 4 \) om S. of St. Petersburg, p. 13,000.
Near it is the Czar of Russia's palace.
Gateshead, mfg. and mining \( t \) on R. Tyne, opposite
Newcastle, co. Durham, Eng., p. 176,928.
Gathead, R. of Canada, trib. (400 m.) Ottawa R.,
which it joins nr. Ottawa C.
Gauhati, \( t \) on R. Brahmaputra, Assam, India, Kamrup
dist., suffered from earthquake in 1897, p. 8,500.
Gauritz, R. Cape Colony, S. Africa, flowing into sea
near Allwal South.
Gawer, \( t \) in mining \( dist. nr. Adelaide, S. Australia,
Gaya, \( t \) Bengal, India, Patna \( div. (p. 17,000), cap. of
Gaza (mo.left Argara, 172 aq. m., p. over 2,000,000.
Suffered severely from plague in 1901.

nr. the Mediterranean, p. 40,000.

Gazaland, dist. partly in Portuguese E. Africa and partly in S. Rhodesia, lying between Mashonaland and the sea, and between the Limpopo and

iand and the sea, and between the Limpopo and Zambesi Rs.

Geba, R. and fort of Portuguese Guinea, W. Africa.

Gebal, anc. Pricenician c. on a hill N. of Beirut, nr. the Mediterranean, formorly called Byblus (Arabic, "Jebel"; many archaeological reliques.

Gebweller, t. S. Alsace, Germany, nr. Kolmar; cotton

manuf.; p. 13,000.

Geelong, 59f. on Corio B. (Port Philip) Victoria; fine harbour, flourishing trade; p. (including Geelong

harbour, flourishing trade; p. (including Geelong West) 30,000.

Geelvink Bay, twlet on N.W. coast of New Guinea.

Geelvink Channel, between West Australian mainland and Abrolin's Isls.

Geestemunde, t. on Weser, Hanover, Prussia, centre
of North Sea fishery, p. 22,000.

Geffe, 59t. at mouth of Geffe R., in mining co. ot
Konneybern Sweden p. p. 2000.

Kopperberg, Sweden, p. 22,000. [cap. Gefle. Gefleborg, maritime 2000. Sweden, on G. of Bothnia, Gelalingen, mftg. f. nr. Stuttgart, Wurtemberg;

Genieporg, marine prov. Sweden, on C. of Bothmerg; runned castle, p. 7,500. Gelderland, prov. E. Holland, between Zuyder Zee and Westphalas, area 1,565 sq. m., p. 560,000; cap. Arnhem. Gelderland, Rhenish Prussia, nr. Wesel, on R. Niers, Gelltrara, minung and mftg. 2. N. Sweden, in Nor-

botten, p. 13,000.

Gelnhausen, t. on R. Kinzig, nr. Frankfort-on-the-Main, Hesse-Nassau, Prussia, p. 5,000. Gelsenkirchen, t. Westphalia, Prussia, nr. Dortmand; Celleries, ironworks, p. 40,000.
Gemmi, ntn Azr across Swiss Alps, Valat, 7,600 ft.
Gemmi, ntn Azr across Swiss Alps, Valat, 7,600 ft.
Gemona, industri, f. Haly, nr. Udine, p. 8,000.
Genazzano, f. nr. Rome, Italy, p. 4,500.
Genesse, R. Pennsylvania, U.S.A., flows 200 m. into
L. Ontario, nr. Rochester.

Genesco, t. nr. Rock Island, Henry co., Illinois, U.S.A., p. 5,400.

Geneva, cant. and c. (p. 126,000) in S.W. Switzerland; the Rhone flows through the c., which is situated at W. end of L. of Geneva (area 225 sq. m.). Wealthy W. end of L. of Geneva (area 225 sq. m.). Area of city, flourishing watch-making industry. Area of cant, 107 sq m., p. 140,00x. Also name of t. Ontario co, New York, U.S.A., on Lake Seneca, iron and steel industry, p. 12,000; also ts. in Olio, Nebraska, and Illinois, U.S.A.

and Illinois, U.S.A..
Gennaro, with. of the Apennines, nr. Tivoli, Italy, alt.
Gennesareth. (See Gailler, Sea of.)
[4,289 ft.
Genos, maritime prov. of N. Italy (area 1,518 5q. m.);
p. nearly 1,00,000; also commit. c. and 59t. Situated
on Gulf of Genos, p. 275,000; fine palaces, flourishing
welvet and silk lateures. (Fortifications p. 8,500.
Gentilly, a southern subserve of Paris, just outside the
Genzaro, f. nr. Potenza, Italy; p. (with environs) 9,200.
Geographe Bay, on S.W. coast of Australia, 35 m.
Geographe Bay, on S.W. coast of Australia, 35 m.

Georgetown, cap of Brit, Guiana, S. America, on Demorar, R., p. 55,000, also t. on Potomac R., nr. Washington, U S.A., p. 15,000; also spt S. Carolina, U.S.A., p. 4,700; also č. iu prov. of Ontario, Canada, and various other sink ts. in United States and the Brit. Colonies.

Georgia, State (area 59.475 sq. m., p. 2,700.000), on Atlautic coast, U.S. A., large percentage of pop. is coloured produce, cotton, tobacco, maize, etc.; cheft is Atlautia (c.p.) and Savannali; also mounts, region of the Caucasus, W. Assa, in the Russian govt. dist. of Tiffis.

dist. of Tifus.

Georgia, Gulf of, inite (250 m. long), between Vancouver Isl. and mainland of Brit. Columbia.

Georgian Bay, N.E. side of L. Huror. Canada,
length abt. 120 m.

Georgievsk, dist. £ of Russia, North Caucasia, prov.
Georgievsk, dist. £ of Russia, North Caucasia, prov.
Georgievsk, dist. £ of the Saxon border of
Boliemia, linen industry; p. 8,500.

Gera, mfg. £ Cent. Germany, on the White Elster;
cap. of Reuss-Schleitz; wonving, printing, etc.;
m. 800.

E. p. 48.000.

Geraldton, ph. W. Australia, Champion B.; p. 3.000.

Geraldton, ph. W. Australia, Champion B.; p. 3.000.

Geraga, c. of Decapolis, Syria (the modern Jerash), supposed to be the Ramoth Gilead of the Bible, now occupied by Circassia.

German Bast Africa, terr. covering area of 980,000 sq. m.; with estimated p. of 8,000,000; cap. Bagamoyo, German South West Africa, terr. (226,000 sq. m., p. 250,000) N. of the Orange R., comprising Damaraland and Namaqualand; cap. Gt. Windhock.
Germantown, resident! dist. in N. pt. of the c. of Philadelphia, U.S.A.

Philadelphia, U.S.A.
Germany, gt. emptors of cent. Europe, area 208,780
sq. m., p. about 05,000,000; composed of 4 kingdoms,
6 grand-duchles, 7 principalities, 3 Free Towns, besides the conquered terr. of Alsoce Lorraine; politically and commercially G. is one of the leading
powers of the world; among the chief cities are
Berlin (cap.), Munich, Breslau, Hamburg, Leipsic,
Cologne, and Dresden; mam R.'s Rhine, Danube,
Elbe, Weser and Vistula (all of which see)
Germersbach, c. nr. Carlsrube in Baden, on R. Murg,
p. 2,850. [Spain (area 2,264 sq. m., p. 298,500].

p. 2,852.
p. 2,852.
Gerosa, f. (p. 17,000) and maritime prov. in Catalonia, Cers, wine-producing dep. S. W. France, area 2,429 Sq. m., p. 238,000; cap. Auch; also name of small R, which rises in the Fyrenees, and flows (75 m.) to the

Geschenen, vil. Switz, at end of St. Gothard Tunnel. Gescke, t. nr. Amberg, Westphalia, Prussia, p. 3,740. Gettysburg, t. Penns., U.S.A., great Federal victory,

Gettysburg, t. Penns., U.S.A., great Federal victory, 1863, p. 4.000.
Gez, t. in Ain, France, nr. Geneva, p. 3,000.
Geyer, t. Saxony, nr. Zwickau, p. 5,400.
Geyers, hot-water springs, Iceland, chiefly in vicinity of Mt. Hecla, also in "Terrace" region of Auckland, New Zealand, and in the Yellowstone National Park of the U.S.A., and elsewhere.
Geyser Springs, summer resert. California, U.S.A., Sonoma co., 90 in. N.W. of San Francisco.
Ghatts, or Ghauts, Eastern and Western, two mtn. ranges supporting the triangular upland of Southern India, alt. of chf. summits, 4,700 to 7,000 ft.

ranges supporting the triangular upland of Southern India, alt. of chf. summits, 4,700 to 7,000 ft. Ghazipur, dist. (area 1,465 sQ. m.) and t. on the bank of the Ganges (p. 39,000), Benares div. N.W. Provs., India; p. (of dist.) a little over 900,000, showing a decrease of about 12 per cent. since 1891. Ghazni, fort. mit. t. Afghanistan, 78 m. S.W. of Cabul; great trade centre, cap. of the Empire of Mahmud, carca A.D. 1000; p. 10,000. Gheel, t. nr. Antwerp, Belgium, with famous anc. asylum for the insane, p. (communal) 14,000. Gheat, large commerci, and cathedral c., cap. of E. Flanders, Belgium, on R. Scheidt; extensive cotton and other manuf; splendtd town hall; p. 165,000. Also t. nr. Hudson, Columbia co., New York, U.S., p. 3,500. [bourne, p. (dist.) 4,200.

and other manut; spientical town nan; p. 169,000.
Also t. nr. Hudson, Columbia co., New York, U.S.A., p. 3,500.
Ghernigap, f. in co. Grant, Victoria, 55 m. from Mel-Ghilan, or Gilan, \$prov. N. Persta, on S.W. shore of Caspian Sea, area 4,673 sq. m., p. (about) 150,000; cap. Resht.
Ghiuteadil, or Kostendil, industr. f. on R. Struma, Ghizesh, f. 3 m. S.W. Cairo, Egypt, on the Nile, cap. of prov. same name; nr. to the pyramids of Khafra, Khufu, and Men-ka-ra; also the Sphinx; contains Museum of Egyptian antiq; p. (abe) ra,000.
Giant's Causeway, famous basaltic columns, on prom. of N. cosst, Ireland, co. Antrim. This tourist resort is now connected by elec. tram with Portrush.
Giarre, industr. f. of Catania, Sicily, in the vicinity of Mt. Eins, p. 26,000.
Giarre industr. f. of Catania, Sicily, in the vicinity of Gibara, old fort. c. of E. est. of Cuba; banna expt.
Gibraltar, fortress and f. (civilian p. 19,120) sit. on rock (1,467 ft.) extreme S. of Spain; captid. by British in 1704; Strait of G. connects Allantic and Mediterru, its narrowest breadth is 9 m.; p. (including military) 28,000.

Mediterm., its narrowest breadth is 9 m.; p. (including military) e8,000.

Glessen, mftg., aral., and Univ. t. Hesse-Darmstadt, Germany, on R. Lahn, p. 26,000.

Gliftorn, ind. f. Frussle, at junctn. of Alder and Ise R.'s, Hanover, p. 3,000.

Glig, or Imasiumi, industri. c. of Centi. Japan; suffered severely from earthquakes, 1891-92, p. 32,000.

Gliggleswick, vid. W. R. Yoris, Ing., nn. Settle, on R. Ribble, p. 1,000; éamous ebbing and flowing well.

Gligha, té. off W. cst. Argyllah., Scotl., 6 m. long a m. wide.

GAZETTEER OF THE WORLD.

Gijon, thriving 19t. in prov. Orviedo, Spain, on Bay of Biscay; fine harbour, p. 45,000.

Gila, R. (650 m.) New Mexico and Arizona, U.S.A., trib. of Rio Colorado. ([Birt.], est. p. (abt.) 45,000.

Gilberton, fin Colorado. ([Birt.], est. p. (abt.) 45,000.

Gilberton, t. in Penn., U.S.A., nr. Shenandoah, p. 4600.

Gildersome, industri. t. nr. Leeds, W.R. Yorka, Eng., p. 2,981. [also t. in N. Hampshire, U.S.A., p. 4,500.

Gilford, t. co. Down, Ireland, on R. Bann, p. 1,400;

Gilghit, or Gilgit, extreme N.W. prov. of India, under the rule of Kashmir; also R. of the Punjab, rising in Chitral, affit. of the Indus, flowing along the Gillightam, t. Kent. Eng., suburban to Chatham, p. 52,321; also mikt. t. Dorsetsh., Eng., nr. Shaftesbury, p. 6,576.

Gilloy, or Jiolo, 561. of the Moluccas, Malay Arch., under Dutch suprem.; area 6,500 sq. m., on the Equator.

Gip, Loch, Argyll, Scotl., inlet of Loch Fyue, at hd. Gilsland, vol. and vol. 96. E. Cumberland, Eng., nr. Brampton medcl. springs. [Winnipeg. Gimli, t. Manitoba, Canada, an Icelandic colony on L. Gilmont, t. on R. Gimone, nr. Auch. dep. Gers, France, p. 3,300.

Gimont, t. on R. Gimone, nr. Auch. dep. Gers, prance, p. 3,200.
Ginose, t. prov. Lecce, S. Italy, nr. Taranto, p. 3,490.
Gioja, or Gioja del Colle, c. prov. Barl. S. Italy; manuf., p. 19,400.
Glovinazzo, 5tt. S. Italy, on the Adriatic, nr. Bart;
Gippsland, rich minri. 252. S.E. Victoria, Australia, 250 m. long W. to E., and 80 m. wide.
Girdleness, promont. at mth. of R. Dee, Kincardine cst., Scotl.; end of the Grampian Hulls.
Girgeh, or Jirgeh, t on R. Nile, Up. Egypt, in prov. same name; suffered from encroachint. of the stream, 0. 12,000.

. 17,000. p. 17,000.

Girgenti, 39t. Sicily, cap. of Italian prov. same name; the Roman Agrigentum, once a Saracenic possessn.; many Donc temple remains, thriving modern trade, p. 26,000.

Gironde, est. in S.W. France, formed by junc. of R.'s Garonne and Dordogne; also dep. of French Repub. on Atlantic; area 4,141 sq. m., p. 825,000; productive vineyard and agr. dist. [women,

vineyard and agr. dist. [women. Girton, par. nr. Cambridge, Eng.; Univ. college for Girvan, pst. and fishy. t. co. Ayr. Scotl., p. 538. Gisborne, port on Poverty B., E. cst. of New Zealand (N. isl.), p. 3,000; also t. in co. Bourke, Victoria, p. 3,000. [Four. in for sail a sec.

p. 3,000.

[Eng.; p. (of par.) 2,722.

Gisburn, t. on R. Ribble, nr. Chtheroe, W.R. Yorks,

Gisors, t. nr. Beauvas, Eure dep., France, p. 4,000.

Gitschin, ch. t. of govt. dist., Bohemia, Austria;

Gitschin, ch. t. of govt. dist., Bohemia, Austria; garrison, com trade, p. 10,000.
Giugliano, mftg. t. nr. Naples, Italy, p. 14,000.
Giugliano, mftg. t. nr. Naples, Italy, p. 14,000.
Giugliano, mftg. t. nr. Naples, Italy, p. 14,000.
Giugliano, Romanan port on R. Dambe; good trade, p. 20,500.
Givet, t. in dep. Ardennes, formerly strongly fortifd.; Givors, t. nr France, on R. Rhone, nr. Lyons; manuf; Giace Bay, f. Nova Sc., Can, p. 17,000.
Glacier House, 110. on C.P. Ry, nr. Donald, Canada, one W. (Munchen-Gladbach), cotton, paper, etc., p. 60,000; the other (Bernssch-Gladbach), E. of the R., nr. Cologne, p. 12,000
Gladstone, 111. of Queensland, fine harbour, p. 4,500; also t. nr. Adelaide, S. Australia; also county m Victoria.
Glamis, 121.

Glamis, far. with anc. castle (associated with Shakespeare's "Macbeth"), nr. Forfar, Scott. Glamorgan, co. in S. Wales, with immense coal and iron deposits; area 855 sq. m., p. 1,790,828; co. t.

iron dēposits; area 855 sq. m., p. 1,130,828; co. t. Cardiff (g.v.).
Glarus, cant. Switz., E. of Schwytz; area a67 sq. m., p. 35,000; also c., cap. of cant., on R. Linth, nr. Wesen, p. 6,000.
Glasgow, c. Lanarksh., Scotl. on R. Clyde, second largest city in Gt. Britain; many thrying manufs.; university and famous cathedra! p. 784,455; also small t.'s in Michigan and Kentucky, U.S.A.
Glasnevin, sub. of city of Dublin, Ireland, famous botanic gdn. and cemestery,

Glastonbury, f. nr. Wells, Somerset, Eng.; noted old abbey, with legend of thorn planted by Joseph of Arimathea, also adjacent to Avalon, burial isl. of King Arihur, p. 4,251. [manufactures: p. 15,600. Glatz, f. (ftd.) Frusslan Silesia, on R. Niesse; many Glauchau, f. Saxony, on R. Mulde, p. 28,000. Glebe, a suburb of Sydney, p. 22,940. [elechen, two groups of castles in Germany; one between Erfurt and Gotha, in Thuringia, the second or Cottingen.

Gleichen, two groups of castles in Germany; one between Erfurt and Gotha, in Thuringia, the second nr. Göttingen. [Hungary, nr. Gratz. Gleichenberg, Bad, wat. 9t. in Styria. Austria-Gleiwitz, t. Prussian Silesia, on R. Klodintz; many manufactures; p. 25,000. [Welland. Glen, R. of co. Lincolnsh. Eng. (36 m.), trib. of R. Gien, The, beautiful valley and towarts resort in White Mountain dist. of New Hampshire, U.S.A. Glenalmond, valley on R. Almond (trib. of R. Tay), Perthsh., Scotl.; Episcopal college. Glenadend, valley on R. Almond (trib. of R. Tay), Perthsh., Scotl.; Episcopal college. Glenadend, valley on R. Almond (trib. of R. Tay), Perthsh., Scotl., 1899; also valley in N. Argylish., Scotl., scene of famous massacre, 1692. Glenadeugh, and "Seven Churches," vil. co. Wicklow, Iredd., nr. Rathdrum; interesting runs. Gleneig, R., 200 m. in S.W. Victoria, Australia; also R. of N.W. Australia (70 m.) flowing to Doubtful Bay; also t. and wat. pl. on Holdfast Bay, nr. Adelaide, S. Australia; p. 4,500. Glen Innes, hull, t. of N.S.W., 406 m. N.N.W. of Melbourne, alt. 3,218 ft.; p (dist.), grv. Glen More, Scottish valley traversed by Caledonian Canal, from Fort William to Inverness.

Glen Roy, valley of co Inverness. Scotl., famous "Parallel carde".

Glen Roy, valley of co Inverness, Scoti., famous "Parallel roads."

Glen's Falls, t. on Hudson R., N.Y., U.S.A.; lime-

"Parallel roads."

(Ben's Falls, t. on Hudson R., N.Y., U.S.A.; limekins and many manufs; p. 14.000

(logau, t. fort. on R. Orler, Silesia, Prussia; former

cep. of extinct principality; p. 25.500

(lommen, R., longest in Norway (350 m.), flows in

Skager Rack at Fredrikstad.

(lossop, cotton manuf. t. Derbyshire, Eng; p. 21,638.

Gloucester, anc. cathedral c. on R. Severu (b. 50,000).

cap. of Gloucester co., W. of Engld., drea 1,243

sq. m., p. 672,881; also port and city of Essex co.,

Mass., U.S.A., on C. Ann, fshy, and quarrying

industries, p. 28,000; also c. on Dolaware R., New

Jersey, U.S.A., opp. Philadel, bhia. p. 7,000

Gloverswille, c. m. Fulton co., New York, U.S.A., seat

of American glove mdustry, p. 20,000.

Gluchow, or Glukoff, industri / in Russia, govt.

Tchernigroy, on R. Jesnen, p. 18 (250.

Glückstadt, port on R. Elbe, Schleswig-Holstein, nr.

Hambury, p. 680.

Gmilind, t. Wurtenberg, Gennany, on R. Enz, nr.

Stuttgart; Jewollery and silver work, wood-carving,

etc.; p. 20,000

Stungart; jeweinery and sirve roser, the Austria; princpl, depôt of State salt monopoly, on Traun R., p. 7,500. [weating, p. 2,200.] Gressen, mfg. t. Posen, prov. Privssa; cathedral, hind Gos. Portuguese terr on W. or Milabar coast India, and the study terrors, m. p. 500.00; can Nova Gos.

area about 1,400 sq. ni., p. 500,000; cap. Nova Goa p. 8,500.

Goajira, pen, on G. of Maracaibo, N. coast S. America, crossed by bady, of Venezuela and Colombia; area 5.800 sq. m., p. 30,000, mainly indians of the Gajira and Cosina tribes.

Goaianda, 59. at junc. of Ganges and Brahmaputra,
Fardpur dist., Bengal, India; great trade centre; p.

8,750.

Goalpara, t. on Brahmaputra R., Assam, India (p. 5,500); formerly headqrs. of dist. same name, area (Sect.)

5,500); formerly headqrs. of dist, same name, area 3.95; 8q. m., p. 460; 500.

Goatfell, mcn., alt. a 85g ft., on coast of Arran, W. Gobi, old name of the steppes and stony or sandy desert in Central Asia, divided into two prin. divs.; Shamo in Central Mongolia, and the basins of the Tarim, E. Turkestan; length about 1,500 m. (E. to W.), breadth 500 to 700 m. [manuf.: p. 9,500. Goch, L. in Prussia, Rhine prov., nr. \Cleves, brush Godalming, L. Surrey, Eng., 4 m. S.W. of Gulldford, p. 8,847.

p. 8,847.
Godavari, R. (900 m.), S. India; drains the Deccan
and forms large delta; also dist. of the Madras
and forms large delta; also dist. of the Madras

tobacco, sugar, cotton. Admin. hdqra, Cocanada ; old cap. Rajahmundry. Goderich, Þort on L. Huron, Ontario, Canada, p. g.goo. Godesberg, f. nr. Bonn, in Rhine prov. of Prussia; famous hydro, chalybeate springs; p. 0,000. Godina, f. in Panch Mahals dist, of Bombay, India; hdqrs, of polit, agency; p. 1,400. Goding, f. on R. March, South. Moravia, at frontier Austria-Hungary, p. 11,000. Godollo, mkt. f. nr. Budapest, Hungary; King's summer place, n. 6.

GOGOLIO, mkt. 1. nr. Budapest, Hungary; King's summer palace, p. 6,000.
Godstone, par. in Surrey, Eng., nr. Reigate, p. 3,000.
Godwin-Austen (alt. 28,250 ft.), m/m. Himalaya, next to Mt. Everest, highest in the world.
Gogmagog Hills, 1911 of chalk range, nr. Cambridge, 6000, 39. in Ahmedabad dist., India, on G. of Cambay, p. 10,000.

p. 10,000
Gogra (600 m.) sacred R., trib. of Ganges, India.
Gojam, 4ftf. Abyssinia, S. of L. Isana, Amhara.
Gokcha, large L. in Russian govt. Erwan, Transcaucasia, transquar in scape (greatest leugth N.W. to S. E., 45 m., greatest width, 27 m.), alt. 6,340 ft., never freezes, surrounded by high barren mins.
Golcar, f. m Colne valley, W.R. Yorks, Eng.; fancy woollen manuf.; p. 10,110.
Golconda, fort and runed c. m. Hyderabad, S. India, famous for its diamonds in former days and for the mausoleums of the anc. kings.
Goldberg, f. Silesia, Prussa, 50 m. W. of Breslau on the Kartsbach R., p. 7,000.
Gold Coast, B. W. African cot, on G. of Guinea; area of col. & dop. about 80,000 sq. ni., p. 1,500,000, cap. Accra.

Gold Coast, B W. African ed., on G. of Guinea; area of col. & dep. about 80,000 sq. nu., p. 1,500,000, cap. Accra. Golden, c. nr Denver, Colorado, U.S.A., p. 3,500. 1,500,000, of Whom 1,000 are Europeanis; cap. Accra. Golden Gate, entrance to B. of San Francisco, U.S.A. Golden Horn, fee on the Bosphorus, forming the harbour of Constantinople, Russia, on Windau R.; woollen mills, etc.; p. 12,000. Goldsboro, c. N. Carol., U.S.A., on Neuse R., p. 6,500. Goldetta, f.M. Tunis, 1r miles from Tunis c., p. 3,000. Guilfo Dulce, indet of the Pacific, S.E. of Costa Rica. Central America. [p. 9,000. Central America. [p. 9,000. Gollnow, t. on R. Ihna, Pomerania, Prussia, nr Stettin, Golspie, 19t. on North S. coast, Sutherlandsh., Scotl.,

p. 1,200. Gomar, A. in Sahara dis of Alguers, p. 4,000. Gombruu, o. Bunder Abbasi, 56t. Persia, on Strait of

Ornuz, good rade; p. 9,000. Gomel, dis. t. on F. Sozh, formerly Polish, annexed to Russia, 1772; p. 38,000, half Jows: grain and timber

trade.

Gomera, 111. of the Canaries, 13 m. S.W. Tenerife, 23 m. long, 9 m. wide; cap. San Schastian.

Gometray Isl., one of the Hebrides, included in co. Augyil, Scotl; fishig, sin, and harbr.

Gonaves, Les, 171. on W. coast of Hayti, p. 10,400.

Gonda, 4tt. Oudh, India, Fyzabad div.; area .280 sq. un, p. 1,600,000; cap. Gond. p. 17,500

Gondal, native state of the Gujarat div. of Bombay, area 1,024 sq. m. p. 161,500; cap. Gondal, nr. Rajkot, p. 15,500.

[kingdoml, Abyssma, p. 5,000, Gonda, t. cap. of Gondo, wild gorge in the Simplon Pass of the Alps.

Gondon, ovild gorge in the Simplon Pass of the Alps.

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17,1500.

muns. [17.500.

rums. [17,500.]
GONZAGE, Sm. 1. Mantua N. Italy, p. (communal)
GOOd Hope, Cape of, promontory forming extreme
S.W. of C. Colony, S. Africa.
Goodenough Bay, inite N. coast of New Guinea, E.
Indies; Goodenough isl. just above the bay.
Goodwin Sands, dangerous sandbanks of E. coast of
Kent, Eng., shielding the Downs roadstead.
Goodwood, racecourse and ducal seat, Sussex, Eng.,
nr. Chichester.
Goode, Good Coord Coo

Goole, port Osgoldcross div., Yorks, Eng., at confluence of Don and Ouse R.'s, p. 20,334.
Goolwa, port at mouth of R. Murray, S. Australia, p. 3.700.
Geoma, walled t. of E. Turkestan, nr. Kholen, Geomish-Khaneh, t. 100 m. W. of Erzerum, Asiatic Turkey, p. 10,000.
[Melbourne, p. 15,000] Turkey, p. 10,000. [Melbourne, p. 1,600. Goornone, & in Victoria, Australia, 117 m. N. of

Gooty, A. (ftd.), Anantapur dist., Madras Pres., India,

p. 6,000.
Gopalpur, 59. Madras, India, Garjam dist.; p. 3,000.
Goppingen, manut. t. Wurtenburg, Germany, between
Ulm and Stuttgart, p. 23,000.
Gorakhpur, c. [p. 63,500], dast. (area 4,576 sq. m.), and
date. (area 9,401 sq. m., p. 6,500,000), N.W. Provs. S.
of Nepaul, İndia.

Gorcum, or Gorkum, t. in Holland, nr. Rotterdam, on the Merewede Canal gold and silver working, p. 13,000. [Melbourne, p. (of dist.) 5,000. [Melbourne, p. (of dist.) 5,000. Gordon, £ in mining and agr. dist., Victoria, 55 m. W. Gordon Bennett, mtm. in Ruvenzor range, Cent. Africa, nr. L. Albert Nyanza, discovered by Stanley,

alt. 16.000 ft.

Gore, r. 100 in. S.W. of Dunedin, N. Zealand; p. 1,850. Gorebridge, vil. in co. Edinburgh, Scotl.; p. 1,100. Goree, sm. French 1st. and station nr. Cape Verde, W.

Africa; p. 5.000.

Gorey, nikt. I. co. Wexford, Ireld.; p. 3.000.

Gorbam, A. (mftg.) in Maine, U.S.A.; p. 3.750.

Gorgenzola, I. N. Italy, 12 m. from Milan, iamous for

its cheese, p. 5,000.

Gori, dist. t. nr. Tiflis, in Russian Transcaucasia, nr. the Goristsikhe fortress of the Byzantme Emperors;

p. 12,500.
Goring, beautiful Thames-side vil. Oxfordsh., Eng.
Goritz, J. Brandenburg, Prussia, nr. Frankfort, p. 2,750,
also dist. (Goritz or Gorz), and Gradiska, of Austria, in Kustenland (area 1,127 sq. m., p. 250,000); cap. G., nr. Treste, with cathedral and anc. castle; p. 20,000 Gorkum... (See Gorcum)
Gorleston, wat, b. Suffolk, Eng., nr. Great Yarmouth; Gorlice, t. on the Rope R., S. W. Galicia, Austria;

Gorn, whe, linen, etc.; p. 1500.
Gorilitz, busy comml. and mftg. A. Prussian Silesia, on R. Weisse; lib. educ. mstns.; p. 90,000.
Gort, A. Galway, Ireland; p. 1,700.

Gorz.—(See Goritz.)
Gosford, t. N.S. Wales, 50 m., N. Sydney; p. 1,200.
Gosforth, colly. t. subn. to Newcastle-on-Tyne, Eng.;

Gosforth, colly. f. subn. to Newcastle-on-Tyne, Eng.; p. 15,451.
Goshen, co. Indiana, U.S.A., on Elkhart R., p. 8,400; also vil. of Orange co., New York, U.S.A.; p. 6,200.
Goslar, old comml. c. Hanover, Prussia, at foot of Harz Mnts.; copper and lead manuag dist., p. 17,500.
Gosport, syl. (ftd.) and naval dep., Hants., Eng., W. side of Portsmouth Hardrour, p. 33,301.
Gota, R., of Sweden flows (47 m.) from L. Wener to the Cattegat; also canal (125 m. long), connecting L. Wener with the Baltic.
Gotha, c. Centl. Germany, cap. of Duchy of Saxe-Coburg-Cotha, p. 35,000.

Gotha, c. Centl. Germany, cap. of Duchy of Saxe-Coburg-Cotha, p. 35,000.

Gotham, vul. nr. Nottingham, Eng., where lived the traditional "wise" men of Gotham; also a name given to New York City.

Gothenburg, growt. Sweden, on coast of the Cattegat; also cap. of gort sume name, at mouth of Gota R., second city in the kingdom for commerce, industry, and the complete of the commerce 
second city in the kingdom for commerce, industry, and p. which (including sulm) now reaches 168,000.

Gothland, \$700. of S. Sweden, including 12 govts., area, 32,788 sq in., p. 3750,000.

Gothland 181., fertile Swed. 181.; area, 1,275 sq in., and govt. in the Baltic, part of foregoing prov.; cap. Yisby.

cap. Visby.

Goto Isls., group belonging to Japan, W. of Hizen prov., in the sea track between Nagasaka and Shangha. They he so in from the mainland, and the two princ. are Nakaoni-jama (23 in by 74) and Fukae-jama (17 in by 13). All are highly cultivated.

Gottingen, t. Hanover, Germany, on the Leine; famous University; p. 31,500.

Gottshee, govt. dist., on S. Forder of Austrian crownland of Carolina: area (of dischy) 270 sq. in., p. 25,000. Ice-cave at Friedrichstein, glass and noticer industries.

pottery industries.

Gouda (or Ter-gouw), t. S. Holland, on R. Yssel, 11 m. from Rotterdam. Famous for its cheese, p. 20,000

Goulbourn, mftg., t. (boots, etc.). N.S.W., in agr. dist. 134 m. S.W. of Sydney, p. 11,500; also name of R. in Victoria, flowing (230 in.) to the Murray R. in. Echuca, [Scotl., p 5,500.
Gourock, wat. pl. on F. of Clyde, nr. Greenock,

Gouvernour, t. in New York, U.S.A., p. 4,200.
Govan, busy shipbuilding t. on the Clyde, adjoining Glasgow, Scotl., p. 89,725.
Governor's Isl., fort in Boston Harbour; also fort. islet in harbour of New York, U.S.A.
Gower, Fer. W. Glamorgansh, Wales.
Gowrie, Garse of, lies along the N. bank of R. Tay, Dundee to Kunnoul, Perthsh. Scotl.
Goyanna, commercial t. Brazil, 40 m. N. Pernambuco, on R. Goyanna, 10 Coranna p. 12 Coyanna p. 12 C

Goyanna, commercial I. Brazil, 40 m. N. Pernambuco, on R. Goyanna, p. 15,000.

Goyaz, prov. m Cent. Brazil, area 288,546 sq. m.; p. 250,000; cap. Goyaz, on R. Vermelho, p. 3,500.

Gozo, or Gozzo, Brit. 15/ Maltat group in Medit., thesanc. Gaulos, area 20 sq. m., p. 18,500.

Graaf Reinet, I. m. agr. dist. on Sunday R., Cape Colony, S. Africa, p. 8,000.

Grabow, mdustri. I. m. Pomerania, Prussia, on R. Gractosa, 15/ of the Azores group, N.W. of Terceira (20 m. 1001), p. 8,000.

Gradisca, part of Garitz (9,v.)

Grafton, I. on both 8. of Clarence R., N.S.W., 348 m. N. of Sydney, p. 5,500; also mdustri. t. on Tygart Valley R., W. Virginia, U.S.A. p. 0,500.

Gralmam Isl., the largest of the Queen Charlotte group un the Pacinc, W. of Brit. Columbia; also disappearing vol. islet in the Medit. France.

vol. islet in the Mediterranean.

vol. islet in the Mediterranean.

Graham's Land, in Anarctic Ocean, disc. 1832.

Grahamstown, cap. of S.E. Prov., Cape Colony,
S. Africa, p. 12,000; also name of mining I. N. Zealand
(N. Isl.), p. (disc.) 6,400.

Graina Alpa, min. range between Savoy and Pledmont, highest pt. Gran Para-lico, alt. 13,320 ft.

Grann, Coast of Africa.—(See Liberia.)

Grain, Coast of Africa.—(See Liberia,)
Grammont, or Geertsbergen, t. P. Handers, Belgium,
nr. Ghent, on R. Dend: 1, mant, p. 12,000.
Grampians, or Cent. Highlands, highest mins, of
Scotl; Ben News (dt. 4,400 ft.), also inth, range in
Victoria, Australia, Mt. William (alt. 3,825 ft.).
Grampound, sin. t. in Cornwall, Fig., on R. Fal, once
a parly, bor., p. 48.
Gran, indistri. t. Hungary, on Damble, at junction
Gran, addistri. t. Hungary, on Damble, at junction
Granada, sinc. c. 2. toot of Sierra Nevada, S.
p. 77,000. Formerly cap, of the Moorish Kingdom
of G., now a terrile maritime prov., area 4,957 59, m.,
p. 505,000, also c. of Nucargua, Cent. America, gold

of C., now a terms maritime prov., area 4.957 5G, m., 503,000, also c. of Nicaragua, Cent. America, gold wire-drawing industry, p. 25,000.
Granard, mix t. oc. Longtord, licland, p. 1,800.
Gran Bassan, t. Gold Coast, W. Africa
Grand Calumet, t. a. Canuda, on the Ottawa R., above

Portage du Port.

Grand Canary, 1st. Canaries, cap. Las Palmas (q.w.).

Grand Chartreuse, La, monastery, 15 m. N. of

Grenoble, France; famous for its liqueur.

Grand Combin, miss. of the Alps, north of Aosta, Italy, alt. 13,141 ft. [wheat region, p. 8,500. Grand Forks, c. N. Dakota. U.S.A., on Red R., in Grand Haven, c. on Lake Mich., U.S.A., cap. of Grand Mayen, f. on Lake Mich.. U.S.A., cap. of Ottawa co., p. 5,500. [and grain trade, p. 7,500. Grand Island, f. in Hall co., Nebraska, U.S.A.; cattle Grand Junction, f. in Mesa co., Coloradio, U.S.A., p. Grand Labou, f. Gold Coast, W. Africa. [4,500. Grand Lake, New Brunswick (25 in. long), draining into R. St. John.

into N. St. John.

Grand Manan, 1st. of Charlotte co., New Brunswick (22 in. long), at entrance to B of l'undy.

Grand Rapids, c Mich., U.S.A., on Gland R.; many infigs, and thriving tr.; p. 112-57.

Grand R., Mich., U.S.A. (225 in.) enters L. Mich, at Grand Haven, mangable to Grand Rapids; also R. of Western Colorado and Eastern Utah, U.S.A. (250 in.), trib. of the Colorado R. [Forth, p. 989.

Grangemouth, 12t. of Sunlingsh., Scotl., on F. of Grantley, t. on Yamaska R., Quchec, Canda, p. 300.

Grantham, t. Lincolnish, Ling., on R. Witham; iron [Grantle Land, region in Arctic Ocean, north of Granton, 12t. Midlotham, Scotl., on F. of Forth, p. 25, 250.

pr.; 200. Grantown, mkt. f. Elginsh., Scotl, p. 7.457. Granville, spr. (fid.) and wat. pl.,, dep. Manche, France, at mouth of the Boo, p. 12 005. Gråo Para, State of Brazil—(See Para.) Grao de Valencia, 597. of Spain, at mouth of the Guadalaviar, p. 4,500.

Grasitz, f. Bohemia, nr. Eger and the Saxon frontier; musical inst. mfg.; p. 12,000.
Grasmere, picturesque vnf. Westmorland, Eng.; at head of Grasmere Lake; Wordsworth lived here.
Grassano, f. nr. Potenza, Italy, p. 6,500.
Grasse, f. and health resort, dep. Alpes-Maritimes, S.E. France; rose and orange flowers production;

p. 14,500.

Gratz, c. cap. of Styria, Austria-Hungary, on the
Mur; bicycle and machy. mftg., good trade;

p. 140,000. Graudenz, t. in W. Prussia, on the R. Vistula; p. 150,000.

Graudenz, t. in W. Prussia, on the R. Vistula; carriage and carpet factories; p., including military, 33,500.

Gravelines, 5tt. (ftd.) dep. Nord, N.E., France; Cravelotte, vit. 7 m. W. of Metz, Germany; great French defeat, 1870.

Graveseud, 5tt. Kent, Eng., at mouth of Thames, p. Gravina, industri. c. Italy, Apulia, S.W. Bari, p. 16,000.

Gray, t. dep. Haute-Saone, France, on R. Saône, p. Gray, c. dep. Haute-Saone, France, on R. Saône, p. [14,341 ft].

O.000. Peak, Rocky Mtns. Colorado, U.S. A.; alt. Gray's Thurrock, L. Essex, Eng., on the Thames, nr. Tilbury Fort; cement manuf.; p. 14,500. Grazelema, A. Spam, 60 m N.E. Cadir, p. 8,500. Greasbrough, L. nr. Rotherham, W.R. Yorks, Eng.,

p. 3.136. Greasley, par. nr. Nottingham, Eng., p 9,000. Great Australian Bight, coast line (850 m S. Australia, Great Barrier Reef, off N.E. coast of Australia, 250 m. long. Great Barrington, c. in Berks co., Mass., summer Great Bear Lake, on the Arcuc Circle, in N.W. Terr., Canada, over 150 in. long, area 14,000 sq. in., outlet through Great Hear R. to Mackenzie R.

Great Britain .- (See Eng., Scotl., Ireland, Wales,

Britain, etc )
Great Driffield.—(See Driffield.) Great Falls, s, in Cascade cu., Montana, U S A., on Missourl R.; lead and copper snicking, p. 16,000. Great Fish, R., C. Colony, S. Afraca, reling in Sneuwbergen Mtns., and flowing to Indian O: also R. in extreme N. of Brit. N. America, running from the

Great Slave L. to the Arctic O.

Great Slave L. to the Arcite O. Great Grinsby.—(See Grinsby.)
Great Harwood, .utg. A. m. Lancashire, Eng., p. Great Kanawha R. (450 m.), trib of R. Ohio, U.S.A. Breat Malvern.—(See Malvern.)
Great Marlow, Thames-side A. in Bucks, Eng., p. Great Grmes Hd., promontory ur. Llandudno, N.

Wales

Great St. Bernard .- (See Bernard.) Great St. Bernard.—(See Bernard.) [Iland. Great St. Lawience, 1/2 on Placentry Bay, Newfound-Great Salt Lake, N. Utah, in the Gt. Busin plateau of N. America, 9 m. long, area 2,3/50 sq. in; receives Beau, Jordan, and Beavr R. 's, no outlet. Great Sandy Isl., on coast of Queensland. Great Slave Lake, in N.W.T., Canada, Jength 370 m., greatest broadth 50 m., outlet the Mackeuzie R. Great Slave R., running betwn Lake Athabasca, Brit. N. America, and the Great Slave Lake. In 2202.

Great Slave R., running betwn Lake Allabasca, Brit. N. America, and the Groat Slave Lake. Ip 3 200. Grebenstein, t. in Hesse Nassau, Germany, in Cassel, Greece, a kingdon on the S. part of Balkan Pen, bounded on N. by Turkey, on W. and S. by the Mediterranean, and on the E. by the Ægern Sea, and including islands in the Mediterranean, Figan, and Ionian Seas. Up to the Balkan War comprised

and Ionian Seas. Up to the Balkan War comprised 24,077 s.q. m., p. 2,700,000; after the war recd. additional territy, extends, her area took 143,500 q.m., and increasg, the p to nearly 5,000,000; cap Athens (g.w.). Greeley, f. m. Denner, Colorado, U. S. A. p. 3,430. f. flour, etc.; p 26,000. Green Bay City, Wisconsin, U. S. A.; trade in timber, flour, etc.; p 26,000. Green Bush, f on R. Hindson, opposite Albany, New Green Bush, f on R. Hindson, opposite Albany, New GreenBush, f on R. Hindson, opposite Albany, New GreenBush, f on R. Jankson, Opposite Albany, New GreenBush, f on R. Jankson, Opposite Albany, New GreenBush, f on R. Jankson, S. A., p. 8,500. GreenBush, con Hudson R., New York, p. 4,800. GreenBush, cattenive Danish Arctic 1st. N.E. of N. America; imhabited ualnily by Eskimos; icy region of which little is known. Estimated area 850,000 sq. ii., ico-free area 34,000 sq. m., p. (about) 12,000. GreenBush, far. Berwicksh., Scotl., on the Black Ackler, p. 941.

Green Mtns., Vermont section of Appalachian or Alleghany system; highest pk. Mt. Mansfield, alt.

4.430 ft. Greenock, imp. port on F. of Clyde, Renfrew, Scotl. Shipbuilding and sugar-refining, p. 75.140. [2,500. Greenough, t. 251 m. N. of Perth, W. Australia, p. Green, K. trib. (750 m.) Grand R., Utali, U.S.A.; also R., trib. (350 m.) Ohlo R., Kentucky, U S A.; also wid. Victoria co., New Bruswick, on K. St. John, p. 1,200. Greensborough, mfg. t., Guildford co., N. Carolina, U.S A. p. 11,000.

U.S.A., p. 11,000.

Greensburg, £. cap. of Westmorland co., Pena.,
U.S.A.; tron and glass factories, p. 8,500.

Greenville, £. S. Carolana, U.S.A., cap. of Greenville
co., in the cotton belt, p. 13,000; also t. in Washington
co., Mississippi, U.S.A., good cotton trade, p. 8,000;
also t. in Hunt cc., Texas, U.S.A., cotton, shipping,

p. 8,500.

p. 8,500. Greenwich, t. on Thames, Kent, 5 m. S.E. London, Eng. Famous for its Hospital and Observatory; p. of bor. 95,907; also t. of Connecticut. U.S.A., summer resort, p. 13,000. [p. 4,490. Greetland, mfg t. nr. Halifax, W.R. Yorks, Eng., Greifenberg, walled t. on R. Rega, Prussia, nr. Stettin, p. t. oo. 7, Greifenbagen, industri. t. on R. Oder, Pomerania, Prussia. 1, 7,100.

Prussia, p. 7,100. Greifswald, univ. t. Pomerania, Prussia, p. 23,000. Grein, t. in Hardramont, nr. Kakallah, Arabia, p.

12,200.

Greiz, t. cap. of Reuss-Greiz, Germany, on the White Elster R.; woollen manuf.; old castles, modn. pal.;

p. 22,500.

Grenada, Brit. 1st. in W. Indies, area 133 sq. m., p. 67,000 cap. St. George; seat of govt. of the Windward Isls.

waru isis.

Grenadines, Brit, group of sml. 1s1s. between Grenada and St. Vincent; like Grena/la, in the Windward Isis, jurisdiction.

Grenfell, t. 215 m. W.S.W. of Sydney, N.S.W.;

Grenoble, fort. c. on R. 1stre, S.E. France, som, from Lyon.

Lyons, glove, button and machy, mfrg.; p. 70,000.

Gretna Green, vil. at head of Solway Firth, on border of Scotl., Fig.; formerly noted for clandestine marriages, also t. Louisiana, U.S.A., on the Mississipol R., opp. New Orleans, p. 5,800.

Greymouth, spt. on Grey R., W. est. of New Zealand

Greymouth, 59% on Grey R. W. cst. of New Zealand (so. 181), p. 1.000.
Greystock, pur. nr Penrith, Cumberland, Eng.; Greytown, f New Zealand, nr Duntedin, p. 2.000; also t. Natal, in Umvoti Valley; also t. Cent. America, at mouth of San Juan R., Nicaragua; p. 7,850.
Griffin, c. Georgia, U.S.A., Spalting co.; cotton factories, and trade; p. 7,500. [Russia; p. 9,000. Grigoripol, fort. t. in Kherson govt., on R. Dneister, Grimma, industri. t. Saxony, on R. Mulde, nr. Leipsic; electoral castle and fanous schl.; p. 9,500.
Grimmen, t. on R. Trebel, nr. Stralsund, Prussia; p. 4,200

Grimsby, Gt., 59. Lincolnsh., Eng., on S. bank of R. Humber; centre of fishery industry; p. 74,663.
Grimsel Pass, in Switzerland, between & ar and Rhône

valleys; alt. 7,150 ft.
Grinager, 4. nr. Christiania, Norway; p. 3,400.
Grindelwald, vil. in cant. Bern, Switz.; picturesque

scenery, great tourist resort, res.; p. 3,500 Grindstone Isl., in Magdalen grp., G. of St. Lawrence;

Grinnel Land, in Arctic America; lies W. of Robeson and Kennedy Channels.

Grinstead, E., mkt. t. in Sussex, Eng., p. 7,090. Griqualand, E., dist. E. of C. Colony, adjoining Natal,

Griqualand, E., dist. E. of C. Colony, G. area 7,480 sq. m., p. 100,000 forigualand, W., territory in the N. of C. Colony, W. of Orange River Colony, contains the S. African diamond field dist., area 17,801 sq. m., p. 200,000; ch. t. [to Dover.

mond field dist., area 17,807 sq. m., p. 200,000; cn. t. Kimberley.

Gris Nez, C. N. E. France, nearest pt. on French coast Grisons, largest canton in Switz., area 2,774 sq. m., one half only productive, many glaciers, contains the mth. air health resorts of Davoe-Platz [alt. 5,158 ft.], St. Moritz [alt. 6,089 ft.];

D. 110.500. Grivegnee, f. (ironworks) nr. Liége, Belgium, p. 12,000. Grodek, & nr. Lemberg, Galicia, Austria, flax trade,

p. 23,500. Gredno, f. (p. 50,000) and frow, of Lithuania, N.W. Russia, area 25,000 sq. m., p. (nearly) 2,000,000; agr., stock raising, wool, and tobacco factories. Gredneg lockner, highest miss. (alt. 23,120 ft.) in Noric

Alps, Austria.

Groffizech, t. in Saxony, nr. Pegau, shoe factories, p.

Groffingen, commercl. and university t. (p. 70,000) and
agr. prov., N.E. Holland; area 904 50. m., p. 300,000.

Groote Bylandt, ist. in Gulf of Carpentaria, Australia,

Groove Bylandt, sel. in Gulf of Carpentaria, Australia, 40 m. 8q.
Grosemont, per. Monmouthsh., Eng., p. 1,000.
Grossenhafi, industri. l. Saxony, on R. Roder; 20 m.
N.W. Dresden, p. 13,000.
[Oder.
Grosses Haff, bey on coast of Prussia, at mth. of R.
Grosses Haff, bey on coast of Prussia, at mth. of R.
Grosse-Meseritsch, f. 20, 7,300 and prov. Cent. Italy, area 1,707 sq. m., p. 120,000.
[Inen industr. 1. 2, 10, 10].
Gross-Waseritsch, L. on R. Oslawa, N.E. Moravia;
Grosswardein, c. (Rd.) Hungary, cap. of co. Bihor, on Koros R.; Roman and Greek cathedrals, one of the most anc. Hungarian towns; p. 50,000.
Groton, industri. L. on R. Thames, New London co.
Connecticut, p. 6,500; also name of several small t.'s in U.S.A.

Grottaglie, f. in prov. Lecce, Apulia, Italy, nr. Brindisi; white glaze pottery, p. 10,000. Grottkau, f. nr. Oppeln, Prussaai Silesia, p. 4,500. Grotzingen, f. Baden, Germany, nr. Carisruhe, p. 3,140. Groznyi, f. (fort.) N. Caucasia, Russia, on R. Terek;

Grozny, F. (1971.) N. Caucasta, Russia, on R. 1 erek; naphtha works, p. 77,000.

Grubeschow, f. of Russian Poland, nr. Lublin, p. 8,500.

Gruinch, f. in Bohemia, nr. Königgratz, p. 3,100.

Grumo, industri. f. nr. Barl, in S. Italy, p. 10,000; also smaller Italian t. nr. Naples, p. 5,000.

Grunnberg, f. Prussian Silesia, nr. Glogau; straw hat, tobacco, leather manuf; p. 22,500.

Gruybre, dasf. in canton Freiberg, Switz., noted for its

choese; p. 1.375.

Guadalaira, mitg. t. (p. 12,000) and prov. (area 4,860
sq. m., p. 208,000) Sixan; agr. and salt mines; also
c. in Mexico, cap. of Jalisco State; cotton and wool manuf, cathedral; p. 95,000. [nr. Valencia. Guadalaviar, R. (130 m.) E. Spain, flows into Mediterr. Guadalcanar, ist. of the Solomon group in the Pacific

[Andalusia to Atlantic.

Guadalcana, 15.0 of the Solomon group in the Pacine Ocean.

Guadalquivir, ch. R. (375 m.) Spain, flows through Guadalque, t. in Caceras prov. Spain, p. 3000.

Guadeloupe, t. in Caceras prov. Spain, p. 3000.

Guadeloupe, t. (French) W. Indies, in Leeward grp.; area 619 Sq. m., p. 167,000; sugar produce; ch. port, Pointe-A-Pitre. [into B. of Cadiz, Guadiana, R. (380 m.) Spain and Portug, trontier, flows Guam, largest 15.6 of the Ladrones grp, in the N. Pacific, area 224 Sq. m.; naval station of the U.S.A.; native p. 9,000; ch. t. Agana.

Guanalacoa, industri. t. nr. Havana, Cuba, p. 24,000.

Guanalquato, state Central Mexico, area 11,374 Sq. m., p. over 1,000,000; very fertile, productive and prosperous. Chief t. Guanalquato, 250 m. from Mexico city, p. 40,000, many fine bidgs.

Guanare, industri. t. in Venezuela, nr. Trujillo; cap. of Zamore State; p. 12,000.

Mexico City, 2, 6,000, many me bidge;
Guanara, industri. L. in Venezuela, nr. Trujillo; cap.
of Zamora State; p. 12,000.
Guantanamo, L. on S. coast of Cuba; shipg. port of
coffee and suyar growing dist., p. 7,500. [Mamoré.
Guapore, R. of Brazil, S. America (goo m.), joins the
Guarda, wine-growing dist., of Portugal, between R.'s
Tagus and Douro; area 2,085 og. m., p. 206,500.
Guarda, L. a. f. nr. Toledo, Spain, p. 6,200.
Guarda, L. a. f. nr. Toledo, Spain, p. 6,200.
Guarda L. a. f. nr. Toledo, Spain, p. 6,200.
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Guarda (area 48,200 sq. m., p. abt. 2,000,000),
Republican state in Cent. America, adjoins Mexico,
Honduras, San Salvador, and the Pacific. Coffice and
sugar produce; cap. New Guatemala city, search
on a broad and high plain, mountain surrounded, p.
72,000; old Guatemala is a small pl. 25 m. W.S.W. of
the cap., p. 6,000. [to m. from the S. coast; p. 5,500.
Guayama, £ of Porto Rico, in prov. of same name,
p. 36,000; cap. Angostura (2,10).
Guayaquil, ch. port of Ecuador, S. America, on R.
Guayas, 30 m. above its ent. into the B. of Guayaquil,
Devastated by fire in 1856 and 1899; p. 80,000.

Guaymas, Mexican port on G. of California, p. 6.500, Guayra, La, or La Guaira, t. in Venezuola, prov. Caracas; impt. tr.; p. 15,000. [ware; p. 5,500, Gubbio, t. in Perugia, Umbria, Italy, nr. Ancona; lustre Guben, t. (walled) Brandenburg, Germany, on R. Nelsse; impt. trade, p. 28,000. Gudbrandsdal, longest valley in Norway. [Cattegat Guden-Aa, t. in Juliand, Denmark, flows (80 m.) to the Guelderland, prov. Holland.—(See Gelderland.) Guelma. t. nr. Bona, in dep. Constantire. Alerria.

Guelderland, prov. Holland.—(See Gelderland)
Guelma, & nr. Bona, in dep. Constantine, Algeria,
p. 6,500.
Guelph, mftg. & in Ont., Canada; agr. college and
Guefret, & in dep. Creuse, nr. Limoges, France, p. 8,000.
Guernsey (28 sq. nr., p. 41,500) next to Jersey, largest
of Channel Isls. between cst. of France and Eng.
Only t., St. Peter's Port.
Guerrero, a Pacific Sadr, Mexico, area 25,000 sq. m.,
p. 605,000; agr. and muneral; cap. Chulpancingo; ch.
port, Acapulco.

ort. Acapulco.

port, Acaptaco, in N.E. part of S. America; pol, divided into Brit., French, and Dutch G. (e.v.). Guienne, old French prov. separated by R. Garonne from Gascony.

from Gascony. of Surrey, Eng., 30 m. S.W. London, Guildford, co. t. of Surrey, Eng., 30 m. S.W. London, Guildford, bor. New Haven co., Long Island Sound, Connecticut, U S.A., p. 3,120.
Guimaraes, A Portugal, Braya dist., surrounded by vmeyards; cutlery and linen manuf., fruit-preserving; p. 0.000.

p. 9,000.
Guinea, general name for W. African coastlands round the greatest bend of Guif of G. (See Liberia, etc.)
Guinegate, vil in dep. Pas-de-Calais, nr. St. Omer.

Guinegate, w. in dep. Pas-de-Laias, nr. 5t. Chact. Battles 1470 and 1513. Guines, A. in France, 7 m. S. of Calais; an Eng. possess, 14th to rotil cent.; p. 4,740; also t. in Havana prov., Cuba, in sugar dist.; p. 8,500. Guingamp, A. on R. Trieux, nr. St. Brieuc, Brittany, France; ch. of Notre Dame, julgrim resort; p.

France; ch. of Notre Dame, pilgrim resort; p. (cummine) 10,000.

Guoma, min in N. Greece; alt. 8,240 ft.

Guipazcoa, one of Span. Basque Prov.; area 728 sq.

m. p. 225,271. Mitg. minutals, agr.; cap. San Sebastian.

[Eng.; p. 7,052.

Guisborough, c. in Cleveland iron dist., N.R. Yorks, Guise, c. Aisne dep., France, on R. Oise; gave name to Dukes of Guise; p. 8,250.

Guiseley, mitg. c. nr. Oiley, W.R. Yorks, Eng., Gujarat or Guzerat, martime prov. in Bombay, India; area 70,038 sq. nr.; p. (nearly) 10,000,000. Includes Kathawar penn., Bit, dists. of Ahmadabad, Panch Mahals, Kaira, Surat and Broach, besides the terratones of Baroda, Cutch and Cambay, all of which sec Gujranwala, c. cap. of dist. same name. Punjab, India, p. 27,000; area of dist. (in Rawalpindi div.) 3,017 sq. m.; p. 757,000.

p. 27,000; area of dist. (in Kawaipindi div.) 3,037 sq. m.; p. 757,000. Bujrat, Z. Punjab, India, Rawaipindi div., S. G. Kashmir, nr. the Chenab R.; mlaud work and various manuf., p. 18,000; cap. dist. same name, area 3,01 sq. m.; p. 750,000. Gulf Stream, current of the Atlantic, issuing from Gulf of Mexico by Florida Stratt.

Gulf Stream, current of the Atlantic, issuing from Gulf of Mexico by Florida Strait.
Gulgong, t. in co. Philip, N.S.W., 198 m. W. of Sydney; p. 2,400.
Gulpaigan, c. of Cent. Persia, between Irak and Ispahan, in fertile opium and grain-growing dist.; p. 5,500.
Gumal Pass, from Afghanistan to the Punjab, India, Gumal Pass, from Afghanistan to the Punjab, India, Gumalnen, industri. t. in prov. of E. Prussia; p. 600.
Gummersbach, t. nr. Cologne, Rhenish Prussia; p. 600.
Gummersbach, t. nr. Cologne, Rhenish Prussia; p. 600.
Gumti, R. (500 ml.) trib. of Ganges, India, runs past Lucknow.
Gumtur of Guntoor, t. Madras Press, India, nr. Gumuljina, t. on R. Karaga, Adrianople, Europn. Turkey; wine, silk, and wheat, p. 2,000.
Gumti, R. (500 ml.) trib. of Ganges, India, nr. Gumuljina, t. on R. Karaga, Adrianople, Europn. Turkey; wine, silk, and wheat, p. 2,000.
Gurgeon, t. (p. 20,000) and dist., Delhi div., Punjab, India, area 1,948 80, m. p. 746.000.
Gurlev, or Gurlev Goodok, dist. t. of Russian govt. Uralsk, on R. Ural trade with the Kirghiz, and stn. commun. with Astrachan, p. 10,000.
Gistrow, industri. t. Mecklenburg-Schwerin, N. Germany, p. 17,000.

Germany, p. 17,000,

Götzersich, £. in Westphalia, Prussia, nr. Bielefeld; silk and cotton industry; £mous for its pumper-nickel (rye-bread), p. 7,500. Gutterle, cas. of Okishoma, U.S.A., p. 21,500. Gwalkor, native state. Cent. India, S.W. of N.W. Prova; ¹area 39,000 30, m., p. 3,500,000; cap. Same name, p. 105,000, situate 76 m. S. of Agra. Ifreland. Gweenong, \$str. nr. Redruth, Conwall, Eng., p. 6,300. Gymple, £. Queensland on Mary R.; gold, silver, copper, and antinony mines, and collieries; p. 13,500. Gymna, industrl. £. on the Koros R., co. Bekes, Gyöngyös, £. Cent. Hungary, 44 m. N.E. Pesth, flourishing trade, p. 7,000.
Gyula, commercial £. Hungary, on the White Koros, cap. of Bekes co., p. 7,900.
Gzihatsk, £. in govt. Smolensk, Russia, p. 8,261.

Haag, vil. on R. Rhine, Switzerland, p. 2,400. Haaksbergen, t. in Overyssel, Holland, nr. Deventer.

Hanksberged, in Overysee, Holland, in: Deventer, p. 5,000.

Hann, industri. t. nr. Düsseldorf, Prusua, p. 6,320.

Hanning, c. N. Holland, 14 m. trom Amsterdam, centre of Dutch bulb industry, p. 70,000.

Hanse, R. of Hanover, German, trib of R. Ems.

Habeb, dest, on W. coast of Red S. in N.E. Abyssinia.

Habab, dist. on W. coast of Red S. in N.E. Allyssinia. Habasain, old name of Abyssinia. Hacha, 5t. Magdalena State, Columbia, at mouth of Hacha R., p. 73.500. Idraumy to Frazer R. Hache, Lac La, L. in Brit, Columbia, Lillocet dist., Hackensack, t. in Bergen co., New Jersey, U.S.A., p. 10,000; also vili, nr. Wappinger's Falls, and the R. Hudson, Dutchess co., New York, U.S.A., p. 2,650. Hackettstown, t. Warren co., New Jersey, U.S.A., Hackland, Par. on Maniland Isl., one of the Orkney group, N.E. Scotl. London, Eng.; commerci, Hacos Ness, fromontory, Shapinshay, one of the Orkneys, Scotl. (p. 9,840.

Haddam, t. m Middlesex co, Connecticut, U.S.A., Haddenham, par nr. Thune, co. Bucks, Ing.; p 1,540; also par. nr. Fly, co. Cambridge, Ing.,

Haddington, A. cap. co. same name on R. Tyne, Scot!; woollen manif., p. 4,140; area of H. co. (otherwise E. Lothian), 267 sq. in., p. 43,253. Haddon, z. Grenville co., Victoria, p. (of dist.) 5,400. Hadersleben, industri. z. on ford in N. Schleswig,

Prussia, p. 9,400.

Hadhaz, mg. t. nr. Debreczu, Hungary, p. 7,500. Hadleigh, mkt. t. on K. Bret, Suffolk, Eng., p. 3,201. Hadramaut, maritime prov. of Arabia, part of anc. Arabia Felix, p. 450,000.

Haeitert, f. nr. Audenarde, F. Flanders, Belgunn, p. Haerlebeke, indust. f. on R. Lys, W. Flanders,

Belgium, p. 7,464. Hagen, t. on R. Voline, Westphalia, Prussia; iron and cotton inclust., p. (communal) 88,625.

Hagerstown, c. of Washington co., Maryland, U.S.A.;

college for women, p. 14,500.

Hagonoy, L. m. agr. dist., Luzon, Philippine Isls., p. Hague, The, cap. a. of S. Holland, and seat of the Dutch govt; platees, art galleries, etc., p. 260,512.

Hagueran, L. (fort.) of Alsace, Germany, nr. Stras-

burg, p. 14,500.

Haidarabad, or Hyderabad, native state of South
India, sometimes styled the Deccan, and sometimes
the Nizam's Dominions; area 82,698 sq. m., p. over Tagoogoog; chief c H. on R. Mus (p, with Secunderabad) 445,500. Also prov. Brit Cent. India, otherwise called Berar, or (officially) the Haidarabad Assigned Districts, adjoining Nizam's Doin.; area Assigned Districts, adjoining Nizam's Doin; area 17,711 40, m., p. 2,500,000; Lirgest t. An-oatt. Also dist. in Sindh, Bombay Pres., Brit. India, area 9,030 sq. m., p. 755,000; Cap. H., c. nr., Indias, p. 70,000.

Haidhausen, f. on R. Isar, Upper Bavaria, opp. Munich, p. 3,840.

Hai-Dzuong, f. (fort.) of Anani, Tonquin, p. 30,000.

Haifa, t. on B. of Acre, at foot of Mt. Carmel, Palestine, Syria, p. 12,000.
Hailaham, mkt. t. in Sussex, Eng., p. 4,000.
Hailaham, mkt. t. in Sussex, Eng., p. 4,000.
Hailaham, rich off S. coast China, area 13,974 sq. 20., p. 2,500,000, chief t. Kiungchow; large trade with Hong Kong.
Hainanit, or Hainaut, **prov.* (industri. and agr.) Belgium, adjoining N.E. border of France, area 1,457 sq. m. p. 1,343,000.
Haina, R. in Belgium and dep. Nord, French trib.
Haiphong, or Hai-Fong, f. in Tonquin, French Indo-China; thriving tr., p. 17,000.
Haiti, **id.* West Indies, area 25,523 sq. m.; also H. (the "Black Republic"), part of isl., area 11,072 sq. m.
Haipur, t. in Muzaffarpur dist., Bengal, India, on R. Gondak, p. 22,000.
Hakodate, **pt. of Yezo isl., Japan; floutshing tr. p.
Hai, I. in Brabant prov., Belgium; beetrdot sugar-manuf., p. 12,500.

manuf., p. 12,500. [p. 19,500. Halas, industri. t. ir Hungary on L. Halasto, nr. Pesth, Hallas, industr. I. if Hungary on L. Halasto, in. Festi, Halbertackt, I. in Saxony nr. Halle; agr. and sugar factories, ry. works; p. 45.000. [Eng., p. 4.000. Halesworth, I. on R. Blyth, Suffolk, Eng., p. 2.228. Halfsya, I. in the Anglo-Egyptian Soudan, nr. Khar-toum, 7 m. above the confluence of the Blue and White Nile, formerly the res. of the Shelkh of the

White Nile, formerly the res. of the Shelkh of the Jalin Arabs.

Hallcz, L. in Stanislaw dist., Galicia, Austria; brine Halldon Hill, nr. Berwick, Northumberland, Eng.; here in 1333 Edward III, defeated Scots under the Regent Douglas.

Hallfax, L. in W.R. Yorks, Eng., on the R. Hebble; carpet and woollen manuf., p. 101,556; also spt., cap. of Nova Scotia, great trade, p. 46,550.

Hall, L. on R. Tyrol, Austria; brine baths, bone, button, and felt hat factories, p. 6,240; also wat. pl. in Steyr dist, Upper Austria, saline springs, res. p. 1.100.

hallamshire, S. dist. of W.R. Yorks, Eng., including busy niftg centres of Sheffield and Ecclesfield. Halle, t on R. Saale, Saxony, Prussia; university and nany public instra.; sugar, starch, and other factories,

p. 160,000. [D. 4450 Hallem, £ nr. Salzburg, Upper Austria, on R. Salza, Hall Isls., Frobisher Bay, Canada; also sml. group of Germ shlets of the Caroline system in Occania. Haliwell, cotton mfig. £ nr. Bolton, Lancs., Eng.,

p. 31,623.
Hallowell, industri. f. on Kennebec R., Maine, U.S. p 5,000 [salt mines with many Roman antiquities. Hallstatt, mkt \$1. in Gmunden, Upper Austria; anc. Halluin, frontier industri. 1. in France, dep. Nord, on R. Lys, p. 16,50c. Halmahera, 152, of the Dutch East Indies; area

6,648 sq. m.; mountainous, grows sago and rice, p. 30.00. [and paper factories, p. 18,400 Halmstad, 59t. on Cattegat, Sweden; cloth, jute, Halstead, 59t. on R. Coine, Essex, Eng., p. 6,268, Haltwistle, L. in Northumberl, Eng., on R. Tyne,

p. 4,135.

Ham, t. on R. Somme, nr. Amiens, France: old castle
Napoleon III. escaped from prison here in 1846.

Naporeon 111 concept.

P. 3.425:
Ham, B., bor. of E London, Eng., 133,504. [p. 30,000.
Hamadan, c. of Irak-Ajemi, Persia, the anc. Echatana,
Hamah, c. on R. Orontes, in Upper Syria; the anc.
Hamah, cap. of a kingdom in times of King David

and King Solomon. [p. 14,802. Hamamatsu, f. on the est. of Hondo Island, Japan. Hambach, f. in Neustadt circle, Bavaria, p. 2,467. Hambantotte, f. on S. est. of Ceylon, p. 2,900. Hamburg, muot. commerce!

Hambantotte, t. on S. cst. of Ceylon, p. 2,900
Hamburg, mpt. commercl. c. of Germany, on the
Eibe; gt. transit port, p. 1,050,000: also the Free
State of H., comprising the c. and its surrounding
dist. (including Bergedorf and Cuxhaven), with an
outside p. of 65,000; also name of 1.5 m N. Carolina.
Iowa, Penn, and New York, U.S.A.
Hamelin, or Hamelyn, old mdustri. Con R. Weser,
in Hanover; iegend of "The Pied Piper"; p. 15,840.
Esamilton, burgh of the Falkirk grp., Lamark co., Scoti;
cotton and lace factories, p. 36,46; also c. of ontario,
Can., at W. end of L. O., many manuf., p. 82,000;

also c. in Butler co., Ohio, U.S.A., on the Gt. Maine R., thriving ind. and tr., p. 35,279; also mining t. in Nevada, U.S.A., p. 3,490; also t. in N.S.W., nr. Sydney, p. 2,497; also sub. of Newcastle, N.S.W., p. 2,390; also t. in Western Victoria, p. 3,794; also t. on R. Light, S. Australia, p. (dist.) 1,290; also cap. of the Bermudas (on largest is!), p. 2,260.

Hamirpur, dist. in Allahabad div. on N.W. Prov., Brt. India; area 2,29 sq. in. p. 458,750 (decreased if per cent. by f.mine of 1250-7); cap. II., at confluence of R.'s Jumpa and Betwa. D. 0,000.

of R.'s Jumna and Betwa, p. 9,000. Hamm, L. on R. Lippe, nr. Dortmund, Westphalia, Pruss.: iron industries, etc., p. 32,430. [p. 7,140. Hamme, t. nr. Termonde, E. Flanders, Belgium; rope, Hamme, t. nr. Termonde, E. Flanders, Belgium; rope, linen, and lace factories, p. 14,56.

Hammelburg, t. on the Francoman Saale, nr. Würzburg, Bavaria, p. 3,12.

Hammerfest, spit. co. Finnarken, Norway; the most northerly t. of Europe, p. 2,200.

Hammersmith, Thames-side bor. of London, Eng.; industri. and residit, p. 121,603.

Hammond, c. of Lake co., Indiana, U.S.A.; iron works, 1004 nacking. p. 30,000.

pork packing, p. 20,925. Hamoaze, the est. of the R. Tamar, Plymouth, Eng Hamosze, the est. of the K. Tamar, riymount, Eng. Hampshire, S. co. of Eng., bounded by Dorset, Wilrs, Berks, Surrey, Sussex, and the English Channel, and embracing the Isle of Wight; area 1,622 sq. in, p.

embracing the Isle of Wight; area 1,622 sq. in., p. 950,678.
Hampstead, hilly N. bor. of London, Eng.; mainly Hampton, Thames-side 1. W. of London, Eng.; mainly Hampton, Court Pal. in the par., p. 9,221; Hampton Wick is an urb. dist. a n.lie E. of H. Court, p. 2,417.
Hanau, 1. in Hessen-Nassu, prov. Pruss.; technical art acad., impt. industries; p. 20,000.
Handsworth, mitg. f. in Staffs., Eng., p. 68,618.
Hangchow, c. Chekiang prov., China, hd. of H. Bay; treaty port, extensive trade, centre of silk-weaving ind.; p (est.) 500,000.
Hankow, treaty port, 700 m. from mth. of Yangtse R., China; great tea mart, also large trade in opium, raw silk, cotton, etc.; p. (abt) 800,000.

China; great tea mar, also large trade in opium, raw silk, cotton, etc.; p. (abt.) 800,000.

Hanley, midustri. £. (now miculed in co. bor. of Stoke-on-Trent), Staffs, Eng., p. (of Hanley) 66,200.

Hannibal, £. on the Mississippi R. Missouri, U.S.A.; timber and wagon bidg.; p. 13,000.

Hanol, £. cap. of Frenci Tonquin, Indo-China, the knc. "Ke-Sho" or "great market," on the Red R.; transformed from an old Annames fort. to a modn. commrcl. centre; p. 135,000.

Hanover, Prov. of Prussia (formly. an indept. kinydom); area 14,860 sq. m., p. 2,950,000; gt. nuneral wealth; cap. H.; industri, commercl., and garrson t. on R. Leuie, p. 278,000; also t. in Grafton co., New Hampsh., U.S.A., on the Connecticut R., seat of Dartmouth coll., p. 2,000; also t. York co., Penn., U.S.A.; p. 6,400

JATTMOUTH COIL., D. 2,000; also I. Tork Co., Penn., U.S.A., p. 6,400

Hanse Towns, free cities of Germany. (See Hanse Towns in 'Gen. Inform.' 'sectn., Pears' Cyclopedia.)

Hansi, old walled t. in Hissar dist., Punjab, Brit. India, on the Western Jumna canal. Scene of a murderous outbreak in the Mutiny; cotton factories, berechties.

murderous outbreak in the Mutiny; cotton lactones, horsehair; p. 17,400.

Hanthawaddy, dist. Pegu div., Lower Burma, detached from Rangoon; area 3,023 su.n., p. nearly 500,000; rice-growing.

Hanwell, residl. par. Middlesex co., Eng., on R. Brent, to m. W. of London: insane asylum; p. 19,131.

Yangtse; p (abt.) 100,000.

Han-yang, industrl. c. of China, opp. Hankow, on R. Han-yang, industrl. c. of China, opp. Hankow, on R. Haparanda, t. Sweden, on R. Tormea, nr. G. of Bothnia; meteorolog, stn.; p. 1,640.

Harborne, mftg. t. Staffis, Eng., nr. Birmingham; p. Harbour Grace, t. and port on Conception B., Newfoundland, p. 7,134.

Harbour Grace, t. and port on Conception B., Newfoundland, p. 7,154.
Harburg, ppt. nr. Hamburg, Hanover, Pruss.; Löseedcrushing, india-rubber industry, etc.; p. 50,000.
Hardanger Flord, W. coast Norway (length 75 m.),
noted for its grandeur.
Harderwyk, ppt. Holland, on the Zuyder Zee, p. 7,500.
Hardingstone, per. subn. to Northampton, Eng.;
Eleanor cross; p. 7,508.
Bardol, dist. Lucknow, div. Oudh, Brit. India; are
2,224.87 m. p. 1,008.000; can Hardol, t. p. 1,2000.

2,324 sq. m., p. 1,003,500; cap. Hardoi, t., p. 12,000.

Hardwar, & im Saharanpur dist., N.W. Prov., Brit.

Hardwar, £ ilm Saharanpur dist., N.W. Prov., Brit. India, on R. Ganges; great annual fair and pligrimage; p. (of municipality) 30,400.

Harfleur, £ and yêt nr. Havre, France; iron-foundries oil-refining; p. 2,505.

Harima, old prov. and B. (Harima Naga), Japan.

Hari-Rud, or Heri-Rud, R. of N. Alghanistan and Persia (650 m.); the anc. "Arius."

Hariech, £ nr. Barmouth, co. Merioneth, Wales; famous castle; p. 713.

Hariech, E. New York, U.S.A. (7 m. long), outlet of Harilingen, trading £ in Friesland prov., Holland; margarine manuf.; p. x14,30.

Hariow, vil. Essex, Eng., p. x603.

Hariow, vil. Essex, Eng., p. x603.

Hariow, vil. Essex, Eng., p. x603.

Hariow, vil. Cognon, prov. N. Spain, in wine-growing dist., Harpenden, vil. and residuit urban dist. Herts, Eng.; 1. awes agr. experiments were here conducted; p.

Lawes' agr. experiments were here conducted; p.

6.173.

Harper, L. in Liberia, W. Africa, nr. Cape Palmas.

Harper's Ferry, vvl. Jefferson co., West Virginia,
U.S.A., at junc. of Potomac and Shenandoah R.'s,
seized by John Brown, 1859; Genl. Miles surrendered
to the Confederates in 1862, p. 1.450.

Harriman, L. and ry. Junc. Tennessee, U.S.A., in
coalfield dist. nr. the Cumberland escarpmt. p. 4.240.

Harringay, res. sub. of London, Middlesex, Eng.,
p. 7.845.

p. 7.845.

Rarrington, cst. 1. nr. Whitehaven, Cumberland, Harris, par. of Lewis Isl. in the Outer Hebrides, Scotl., including sev. sml. islets; famous for manut.

Scotl., including sev. sml. islets; famous for manuf. of tweed cloth, p. 5448.

Harrisburg, c. of Dauphin co., cap. of Pennsylvama State, U.S.A.; iron and steel factories, p. 64, 176.

Harrison, or East Newark, industri. c. on the Passaic R., New Jersey, U.S.A. iron, p. 17434.

Harrison, or East Newark, industri. c. on the Passaic R., New Jersey, U.S.A. cap. Rockinghain co., p. 3746.

Harrosdourg, c. in Mercer co., Kentucky, U.S.A., Harrogate, mat. M. W.R. Yorks, Eng.; numerous chalybeate springs, p. 32,706.

Harrow-on-the-Hill, residenti. and scholastic par. N.W. of London, Eng., p. (cid) par.) 17,076.

Harryhar, or Harbhar, con R. Tunghabliadra, Mysore, S. India, p. 4573.

N.W. of London, Eng., p. (civi par 127.07a. Harryhar, or Harihar, t. on R. Tunghabhadra, Mysore, S. India, p. 4.573. Hart Fells, min. between Peebles and Dunffressh., Scotl, alt. 2.62 ft. Hartfeld, vit. Sussex, Eng., nr. East Grinstead, Hartford, cap. of Hartford co. and Connecteux State, U.S.A.; large commerch. centre, and seat of Trinity College, p. 64.05; also Hartford City, cap., of Blackford co., Indiana, U.S.A., p. 7.400; also vil. on Rough Creek, Kentucky, U.S.A., p. 3.60; also vil. on Rough Creek, Kentucky, U.S.A., p. 3.74; also par. nr. Northwich Cheshire, Eng., p. 2.800. Hartland Point, on Barnstaple B., N. Devon, Eng. Hartlepod, 5th. on the Durham coast, Eng., sometimes called E. Hartlepod; with adjoining inship, of W. Hartlepod offically considered one pert. Good trade, flourishing iron shiphidg, and other industries; p. E. Hartlepod, co., 68: p. W. H. 6.9572. [1.804. Hartley, vil. Northumberland, Eng., nr. Blyth, p. Hart's Island, Long Island Sound, New York, U.S. A. Harvaid, vil. Worcester co., Mins, U.S.A., seat of largest and oldest University in America. Harvey, c. of Cook co., Illinois, U.S.A. close to Chicago, p. 6,400. [Stour, p. 13.623. Harvey, c. of Cook co., Illinois, U.S.A. (cose to Chicago, p. 6,400.

Chicago, p. 6,400. [Stour, p. 13,723. Harvich, 198. and 198. Essex, Eng., on R. Hartz Mins., range in Harvier and Brunswick, highest pk. the Brocken (9,10).

mgnest pk. the Brocken (7.2).

Hartzburg, sm. t in Brutswick, simmer into resort.

Haslemere, t. in Surrey, Eng., on hills of Hundhead
and Blackdown, p. 2,466.

Haslingden, bor. ur. Accrington, Lancash., Eng.;
cotton and engineering wks., p. 18,793.

Haspe, t. in Westphalia, Pruss.; iron and chemical

Masper, f. in vicasiman, wks., p. 17,520.

Hassan, dist. Mysore State, Ashtagram, div., India, p. 67,000; cap Hassan, p. 6,00.

Hassan Kaleh, f. in Asia Minor, p. 8,000.

Hasselt, f. in prov. Limbourg, Belgium; gin distilleries, p. 16,200.

Hastings, spt, and wat. pl. Sussex, Eng., one of the

Cinque Ports, p. 61,146; also t., cap. of Adams co., Nebraska, U.S.A., p. 7,800; also t.'s in Michigan

Cinque Ports, p. 61,146; also t., cap. of Adams co., Nebraska, U.S.A., p. 7,800; also t.'s in Michigan and Minnesota.

Hatfield, or Bishop's Hatfield, t. in Herts, Eng.; Hatfield, of Bishop's Hatfield, t. in Herts, Eng.; Hatfield, of Bishop's Hatfield, t. in Herts, Eng.; Hatfield, or Bishop's Hatfield, t. in Herts, Eng.; Hatfield, or Bishop's Lagran, p. 43,000; sugar trade, Hattrag, d. h. Aligard dist. of N.W. Prov., India, nr. Hatteras, C. North Carolina, U.S.A.; stormy region, Hattrag, d. h. Aligard dist. of N.W. Prov., India, nr. Hatteras, C. North Carolina, U.S.A.; stormy region, Hattrage, p. 9,420.

Haugesund, spt. d. of Stavanger, Norway; fishy. Hauraki, G. E. cosst N. isl., New Zealand.

Haussa, or Hausa, ter. in W. Soudan; formerly an empire, now under Bit, protec. (cap. Toulouse. Haute-Garonne, dep. France, 2,403 sq. m., p. 445,000; Haute-Loire, dep. France, area 2,025 sq. m., p. 106,00; cap. Cap. Hautes-Alpes, dep. France, area 2,025 sq. m., p. 106,00; cap. Gap. Haute-Saone, dep. France, area 2,025 sq. m., p. 106,00; cap. Gap. Haute-Saone, dep. France, area 2,025 sq. m., p. 106,00; cap. Gap. France, area 2,025 sq. m., p. 106,00; cap. Gap. France, area 2,025 sq. m., p. 106,00; cap. Gap. France, area 2,032 sq. m., p. 106,00; cap. Gap. France, area 2,130 sq. m., p. 378,047; cap. Limoges. Prance, area 2,130 sq. m., p. 378,047; cap. Limoges. m. Mubeuge; ironworks, p. Hautt Rhin, dep. France, in Upper Alsace; ceded in gt. part to Germany; pres. area 232 sq. m., p. 74,500; cap. Bellort.

cap. Belfort.

cap. Benor.
Hawana, cap. of Cuba, and largest c. in W. Indies, spt. on N. cst. of isl., extens. expts., p. 319,884; also vil. of Mason co., Illmons, p. 2,460; also vil. on Catherine Creek, New York, p. 2,897.

Catherine Creek, New York, p. 2,807.
Havant, f. in S. Hants, n. Portsmouth, Eng., p. 3,950.
Havel, R. Prussia, flowing (227 in.) to R. Elbe.
Havelock, pt. co Sounds, N. Zealand, p. 3,420.
Haverfordwest, mkt. f. Peinbrokesh., Wales, p. 5,920.
Haverbill, f. in Suffolk, Fing., p. 4,749; also t. in
Essex co., Mass., U.S.A., boot factories, p. 4,44,00.
Haverstraw, f. on H. Bay, New York, U.S.A., brickmelblur, p. 6,620.

making, p. 6,230

Havre, Le, spt. of France on Eng. Chan at mouth of R. Seme immense trade and thriving indust.; fine

houlevards, p. 135,000. Havre de Grace, t. Maryland, Hartford co., U.S.A.,

on R. Susquelianna, p. 4,120.

Hawaii, kingdom consisting of the Hawaiian Arch, or Sandwich 151s., in N. Pacific; area 0,543 vq. in, p. 192,000; cap. Honolulu. Hawaii, largest of the

group, area 4,385 v61 m., p. 2,500; mtnous, highest pk Mauna Kea. alt. 73,053 ft Hawarden, c. m Flintshire, N. Wales, castle; p. 7,000. Hawash, K. Abyssima, flows (500 m.) L. of Shoa frontier.

Hawers, t. in New Zealand (N. isl.) nr. New Plymouth, Hawes, mkt. t. in N. Ridg., Yorks, Eng., nr. Leyburn,

p. 1,976

Hawes Water, L. Westmorland, Eng. (2 m. long).

Hawick, L. in Roxburghshire, Scott.; woollen manuf., raawics, t. in Rouburghshire, Scoti.; woollen manuf., p. 16,879. [p. 35,5000; cap. Napier. Hawkes Bay, dist. New Zealand, on E. est. (N. isl.). Hawkesbury, R. (330 m.) N.S.W., flows to sea 14 m. N. of Port Jackson; also t. in Ontario, Can., on Ottawa R. distance, Susse and Kent, Eng., nr. Hawkshead, t. in Lancs, Eng., nr. Amblessde, p. 3,065. Haworth, t. W. R. Yorks, Eng., nr. Keighley; here the Brontes lived and wrote: p. 6.500.

Haworth, f. W. R. Yorks, Eng., nr. Keighley; here the Brontss lived and wrote; p. 6.505.
Hawthornden, watey in Scotl, 8 in. S. of Edinburgh, Hay, t. on R. Wye, Brecknocksh, Wales, p. 1603; also t. in Griqualand West, S. Africa; also t. on Murrumbidgee R., N.S.W., p. 8,840. ilronworks, p. 6.746.
Hayange, t. in Germ. Lorraine, nr. Diedendofen; Hayden Mt., or Grand Teeton, 240 of the Rockies, Wyoming, U.S.A., alt. 13,600 ft.
Haydon Bridge, wil. Northumberland, Eng., p. 2,000.
Haydock, t. Lanca., colliery dist. nr. Warnington, p. 0,000.

Hayes per, Middlesex, Eng., 10 m. W. of London; residil, p. 4.261.
Hayle, viz. Cornwall, Eng., p. 1,028; ironworks.

Hayling Island, wat. pl. Hampshire, Eng., p. (res.) 1,500

(res.) 1.500.

Haynau, industri. A. Prussia, nr. Liegnitz, p. 10,130.

Haystack, summit of the Adirondacks, Vermont, U.S.A., ht. 4,019 ft.

Hayti.—(See Haiti.)

Hayward vul. S. Dakota, Custer co., U.S.A., p. 3,474.

Hayward's Heath, mkt. A. Sussex, Eng., p. 4,851.

Hayward's Heath, mkt. A. Sussex, Eng., p. 4,851.

Hayword, ninning vul. (co. Lauark, Scotl., p. 1,740.

Hazara, dist. in Peshawur div. of Punjab, Brit. India; area 2,907 sq. m., p. 75,000.

Hazaribagh, divt. Chota Nagpur div., Bengal, India; area 7,021 sq. m., p. 178,500; cap. H., p. 15,740.

Hazebrouck, A. Franco, dep. Nord, nr. Lille, p. 13,300; busy ry. centre.

Hazebrouck, a France, asp.

busy ry. centre.

Hazigton, bor. in Luzerne co., Penn., U.S.A., in anthracite coal region, p. 25,452.

[p. 20,000.

Headingley, sub. Leeds, Yorks Eng. mainly residtle, Healdaburg, c. California, U.S.A., on Russian R., [S. Africa, p. 3,100.

Healdsburg, c. Canornes, O.S.M., p. 3,240.
p. 3,240.
Healdtown, miss. stn. nr. Fort Beaufort, Cape Col., Heanor, t. Derbysh., Erg., in colliery dist., p. 19,857.
Heard's Isl., in S. Indian Oc., 280 m. S.E. of Kerguelen Isl.
Heart's Content, spt. and cable terminus, Newfound-Heathfield, vol. Sussex, Eng., p. 2,614.
Heathtown, industri. dist. nr. Wolverhampton, Staffs, Flor., n. 10,000.

[Mersey, p. 11,240.

Heathtown, industri. dist. nr., Wolverhampton, Stans, Eing, p. 10,000.
Heaton Norris, industri. I. Lancs, Eng., on R. Hebburs, t. Durham, Eng., on R. Tyne; shipbidg., enguneering and colliery ind. p. 21,766.
Hebden Bridge, t. nr. Halifax, W. Riding, Yorks, Eng.; cotton factories, dyeworks, p. 7,170.
Hebrides, or Western list. of Scotl.; p. 84,000; grouped as Outer and Inner Hebrides; ch. t. Stornaway, ind. Lewis
Hebron, anc. t. in Palestine, 16 m. S.W. of Jerusalem, p. 2002; also yil, and rsinn Nollynska Thawler co.

p. 5,940; also vil. and tship. Nebraska, Thayler co., U.S.A., p. 3,420; also t. m New York State, U.S.A.,

U.S.A., p. 3,420; also t. m New York State, U.S.A., p. 2,547.
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p 42,688 Heiligenstadt, f. on R. Leine, Saxony, nr. Cassel, cap. of old principality of Eichsfeld, p. 6,842. Heilsberg, t. Prussia, on R. Alle, nr. Könisberg,

p. 5.870. Heilsbronn, or Kloster-Heilsbronn, f. nr. Nuremberg,

p. 5,870.

Hellabronn, or Kloster-Heilabronn, t. nr. Nuremberg, Havaras, p. 1,740.

Helder, t. on cst. of Holland, 50 m. distant from Amsterdam, with which it is connected by the Helder Canal, arsenal and garrison; p. 26,420.

Helderaberg Hills, New York, U.S.A., a spur of the Catskills, W. of Albany.

Helena, t. in Arkansas, Phillips co., U.S.A., on the Missassippi R., shipping centre for cotton, p. 5,80; also t. in Montana, Lewis and Clarke co.'s, in mining dist, at base of the Rockiess, p. 11,500.

Helenaburgh, resident. dist. nr. Glasgow, Scotl., Dumbartonsh., on Firth of Clyde, p. 8,520.

Helloon, in the control of the Clyde, p. 8,520.

Helloon, in the control of the Clyde, p. 8,520.

Helloon, and the control of the control of the control of the legisland, st. North Sea, off mouth of Elbe; now a base for German navy, formerly British.

Hellogolia, and. name of Baalbec, Syria.

Helled Sake River, Montana, U.S.A., trib. of Bitter-Helln, f. Spåin, Albacete prov., sulphur mines, p. 10,870.

Helmadle, f. Sutherlandsh, Sotol., 17 m. N.E. Golspie, p. 1,546.

Helmadle, f. Sutherlandsh, Sotol., 17 m. N.E. Golspie, p. 1,546.

and grand ducky, Germany, area 2,966 sq. m., p.

Helmstedt, f. in colliery dist., Brunswick, nr. Magde-

Helmstedt, f. in colliery dist, Brunswick, nr. Magdeburg, Germany, p. 15,473.

Helmund, K., Aghanustan (690 m.) falls into L. Hamun, Helsingborg, 5th. Sweden, on the Sound, oppos. Elsinore, Denmark; p. 23,420. [Sveaborg) 237,346.

Helston, t. on R. Hel, nr. Falmouth, Cornwall, Eng.; p. 2,938.

Helvellyn, min. Cumberland, Eng., 9 m. S.E.

Helvedtsluys, t. in S. Holland, nr. Rotterdam (fort.);

Helvoefsluys, t. in S. Holland, nr. Kotterdam (10rt.); p. 4,300.

Hemel Hempstead, t. Herts, Eng., p. 12,888.

Hempstead, vil. New York, U.S.A., in Queen's co.; p. 3,120.

Hems, or Hums, t. on R. Dencester, p. 3,200.

Hemsworth, t. Yorks, Eng., nr. Doncaster, p. 3,876.

Henderson, c. Kentucky, Henderson co., tobacco and cotton, p. 25,000; also bor. Minnesota, Sibley co., p. 5,300; also vil. Nr. Carolina, Vance co., p. 4,305; also vil. Texas, Rusk co.; all in U.S.A.

Hendon, t. Middlesex, Eng., suburban to London, site of Brent reservoir; p. 38,806.

Henfield, \$\phi x\$r. in Steyning, Sussex, Eng., p. 2,475.

Heng-chu-fu, c. China, prov. Hu-Nan, on the Heng-Kiang R.; p. 34,200.

Klang R. ; D. 34,200.

Henley-on-Thames, bor. Oxfordsh., Eng., p. 6,456.

Henley-on, C. on Delaware Bay, Delaware co., U.S.A.

Hennebout, t. on R. Blavet in Morbihan, France,

hennerout, to a fair p 8,216.
Hennersdorf-in-Selfen, t. in Saxony; manuf.; p. 6,789.
Hennietta, t. Texas, U.S.A.; good local trade, p. 2,780.
Henry, C. Virginia, U.S.A., at S. cut. to Chesapeake B.
Henry, t. Ili, Marshall co., Ilhnois R., U.S.A., p. 3,673.
Henrada, t. in Burma, on Irawadi R., p. 20,000; ch. t.

Landa nov. (formly. Pegu), area 2,889 sq. 111, p. 485,000. [strasse, p. 7,134. Heppenheim, old t. Hesse-Darmstadt, on K. Berg-Elepworth, t. W. Riding Yorks, Eng., nr. Huddersheld, p. 2,127.

p. 2,171.

Herat, cap. c. of prov. same name, Afghanistan on Harl Rud; strongly fortified, and has been called "the key of India"; p. (abt.) 40.000.

Hérault, def. S. France, area 2,393 sq. m., p. about 500,000; cap. Montpellier. [p. 4,126, Herborn, c. in Hesse-Nassau, nr. Coblentz, Prussia, Herculaneum, buried c. Italy, 7 m. E.S.E. Naples;

Herculaneum, burned c. Italy, 7 m. E.S.E. Naples; unearthed in 1700

Hereford, co. t. of Herefordsh., Eng., on R. Wye; cathedral 7 p. 22,563; also co. on boiders of Wales, area 240 aq. m., fruit growing and agr.; p. 14,269.

Herent, industri. t. nr. 1.ouvain, Belgium, p. 5,163.

Herenthals, mfg. t. Belgium, prov. Antwerp, p. 5,293.

Herford, t. on the Werra R., Westphalia, Prussia; textile industries, p. 27,420.

Heringsdorf, wat. 9t Pointerania, Prussia; on isl. of Usedom in the Baltic, p. 2,693.

Herianu, t. Switzerland, cant. Appenzell; muslin Herkimer, vit. Herkimer co., New York, U.S.A.; dairy centre; p. 5,896.

Hermannstadt, t. on R. Zibin, Transylvania, nr. Roumanian frontier of Hungary, p. 20,000.

Hermitage, t. Jamaica; also châlet in Montmorency. France; also Eshiomable resort in Moscow, Russia, Flermann, min., Plaestine (9,385 ft.), in chain of Anti-

Hermon, men., Palestine (9,385 ft.), in chain of Anti-Libanus. [p. 2462.

Hermon, men., Palestine (9,385 ft.), in chain of Anti-Libanus. 4. S. Dakota, so m. S. Rapid City, U.S. A.; Harmosa, 4. S. Dakota, so m. S. Rapid City, U.S. A.; Harmoslia, 4. Mexico, on Sonora R., impt. tr., p. 12, 246. Hermupolia, 394. and cap. of Syra Isi., Greece; arsenal, large tr. p. 22, 400.
Hermapolia, 394. and cap. of Syra Isi., Greece; arsenal, large tr. p. 22, 400.
Herme Bay, 1904. 94. On coast of Kent, 62 m. in London, Heg., p. 7, 769.
Hermesand, or Westernsorrland, stat. Sweden 6a Gulf of Bothnia, area, 670 s. c. m.; cap. H., p. 7, 639.
Hermesand, 6. in Hesse-Nassau, Frus., on R. Fulda, p. 8, 600.
Herman, 6. c. m. Lége, Belgium, renowned repeating p. 8, 600.
Herman, 6. c. m. Less. Eng., p. 10, 244. Eap. of H. co., area 633 sq. m., a S. Midland shire, p. 317, 321.
Hermegowins, prov. Bosnia (g.w.).
Hersegowins, prov. Bosnia (g.w.).
Heaket, 6. Victoria, co. Bourke, 57 m. N. W. Melbourne, Hessen, or Hesse, formerry Hesse-Darmstadt, state

electorate, now included in Prussia, area 5,953 sq. m.

electorate, now included in Prussia, area 5,059 94. m. Hessen-Homburg, former sin. state of Germany, now part of Wesshaden, govt. dist. Hessen-Nassau.
Hessen-Nassau, or Hessen-Nassau, prov. Prussia, area 6,000 54. m., between R.'s Rline and Werrau, p. nearly 23 millions; cap. Cassel (2.v.). Heston, par. Middleser co., Eng., suburban (S.W.) to London, p. (with Isleworth) 43,326. Hezham, mkt. f. Northumberland, Eng., p. 8,427. Heysham, pp. Lancs, Eng., steamers for Belfast, on Morcambe B.; p. 3,550. Heytesbury, ppr. Wilts, Eng., on R. Wiley, nr. Warminster, formerly a parly bor, p. 2,637. [26,698. Heywood, infig. f. Lancs, Eng., 3 m. E. Bury, p. Hiawassee, K. Tennessee, U.S.A., rib. of the Tennessee, R. Hawasthe, 274. Kansas, Brown co., U.S.A., p. 2,260.

Hiswassee, R., Tennessee, U.S.A., trib. of the Tennessee, R.
Hiswatha, vvl. Kansas, Brown co., U.S.A., p. 2,266.
Hiberma vvl. Kansas, Brown co., U.S.A., p. 2,266.
Hickory, t. North Carolina, U.S.A., p. 2,245.
Hickswille, vvl. Oho., U.S.A., p. 2,245.
Hickswille, vvl. Oho., U.S.A., p. 2,245.
Hidaligo, state, Mexico, area 8,900 sq. m.; mining and agr., p. 9,0000: cap Pachuca. [Laodicea. Hierapolis, or Pambuk, ruined anc. Phrygian c., nr. Higham, vvl. Kent, nr. Gravesend. Eng., p. 1,653; also vvl. in Suffolk, nr. Hadleigh. [p. 2,726.
Higham Ferrers, mkt. t. in Northamptonshire, Eng., High Bridge, New York, on Harlem R., U.S.A.; also t. in Somerset. Eng., p. 2,357.
Highgate, resid. Aar. in Middlesex (and London), Ing., on hill N. of S Pancras bor.
Highand Falls, vvl. New York, Orange co., U.S.A., on Hudson R., p. 3,400. [R. U.S.A.; r., 5,461.
Highlands, t. (now part of Denver city) on South Platt Lighlands of Scotland, mountainous assets. N. of the High Wycombe.—thee Wycombe.)

inen, etc., p. 13,402. Hikone, t. Kioto, Japan, p. 20,711. [heim, p. 2,076. Hikohenbach, t. Prussia, in Kothaar min. dist., Arn-Hildburghausen, t. on R. Werra, Saxe-Meiningen, randourgnausen, t. on R. Werra, Saxe-Menningen, Germany, p. 6,200. Hilden, t. Rhine prov., Prussia, nr. Dusseldorf; silk, Hildeasheim, old industri. t. at root of Hartz Mins., Hanover; fine 1,4th cent. town hall, p. 45,200. Hilleh, or Hillah, in Asiatic Turkey, nr. the anc. Babylon, p. 12,100.

Hillsborough, £ in Hill co., Texas, U.S.A., in cotton region, p. 6,400; also t.'s in Ohio and Missour, U.S.A., and port on Petitoodiac R., New Brunswick.
Hillsdale, c. (cap. of H. co.) in Michigan, U.S.A.,

D. 4,015, b. 12, b. 12, b. 13, m. michigan, O.S.A., b. 4,015, b. 4,015, c. 12, c. 13, b. 4,015, c. 14,015, c.

Everest (q.v.).

Himeji, i. m Harmia, prov., Japan; flourishing trade, Hinchinbrook, Isl., off E. est. Rockingham B., Queensland.

Hinckley, mkt. i. on border of Leirestersh and Hinderwell, est. par. nr. Whitby, N.R. Yorks, Eng., p. 2.401.

p. 2,491. Hindley, mftg. f. nr. Wigan, Lancs, Eng., p. 24,106. Hindmarsh, sub. of Adelaide, S. Australia, p. 7,347. Hindu Kush, or Indian Caucasus, mts. range co.

Hindu Kush, or Indian Caucasus, min. range containing W. of Himalayas : highest pt. 20,000 flags and the Vindhya ranges.

Ilindustan, part of N. India between the Himalayas and the Vindhya ranges.

In 9,635.

Hinganghat, £, in Wardha dist., Cent. Prov., India, Hingham, £, on Massachusetts B., Plymouth co., Mass., U.S.A., p. 5,230; also t. in S. Norfolk, Eng., nr. Wymondham, p. 1,632.

Hinsdale, £, in New Hampshire, U.S.A., p. 3,260.

Hogo, or Flogo, £ in Settus prov., Japan, on Bay of Osaka; silk and cotton industry, p. (with Kobè) 226.000.

Usaka; sik and cotton industry, p. (win kuber 236,000. Hipperholme, t. nr. Halifax, W.R. Yorks, Eng., Hirado, tst. off W. cst. prov. Hizen, Japan; famou, for blue and white porcelain. Hiroaki, t. N. Nippon, Japan; picturesque houses, green lacquer ware, great commercial centre, p.43,760, Hiroahima, spt. c. of Central Nippon, Japan, close to

the "Island of Light." with its famous temples, p. 750,000. [Benedictine monastery, p. 3,240. [Brasal, £ in Black Forest, Wurtemberg; noted for its Hirachberg, mftg. £ in Silesla, Pruss., nr. Gorlitz, B. 18,37; [work, p. 7,850. [work, p. 7,850. Hirson, £ in dep. Aisne, France, on R. Oise, basket Hissar, &v.s. Delhi div., Punjab, Brit. India; res. 5,x53 sq. np. 9,82.000; cap. H., on the Western Junna Canal, p. 17,250. [p. 1,054. [histon, wid., Cambridgesh., Eng., nr. Cambridge C., Hitchin, mkt. £ Hertfordish., Eng.; [wender and peppermit cuit., p. 11,095. [p. 4630. the Burmese. Hising (Rangeon), R. Burma, flows to G. of Martaban. Hoang Hai, Chinese name of Yellow Sea. Hoang Ho (Yellow R.) China, falls into G. of Pe-chi-li; length after m. Hoang-Yan, t. China, Che-klang prov., p. 150,000. Hobart, t. cap. of Tasmania, on R. Derwent; great Hobart, f. cap. of Tasmania, on R. Derwent; great fruit exports, p. 35,000.

Hoboken, c. Hudson co., New Jersey, U.S.A.; large cocan commerce, p. 72,000; also t. in prov. Antwerp, Belgium, shipbldg., p. 10,000.

Hochat, f. on R. Main, Hesse-Nassau, Pruss.; dyeworks, tobacco factories; p. 15,230.

Hochatadt, f. in Swabia, Bavaria; battles, 1081, 1703, and 1704 b. of Blenheimi, p. 2,346.

Hochatetter, mtm., New Zealand, alt. 11,200 ft. Hockenheim, f. Baden, nr. Hedelberg, p. 4,730.

Hodeida, g.f. of Red S., Arabia, 20,000

Hof, f. on R. Saale, m. Bayreuth, Bavaria; woollen manuf.; p. 42,320. manuf.; p. 42,320. Hoffman, min. pk of the Sierra Nevada, California; alt. 8,018 ft.; also mins. in Nova Zembla.

Hoffhuf, t. in Arabia, cap of Fl-Hasa, on the Persian Hornut, r. in Arabia, cap of ri-Hasa, on the Persian G., p. 25,000. [Ribe; textules; p. 6.000. Hohenenbe, t. in Bohemia. Austria; at source of R. Hohenems, or Hohenembs, mkt. pt. of Dornburn, Vorariberg, Austria; cotton spinning, p. 5,743. Hohenheim, vvl. nr. Stuttgart, Wurtemberg, agr. colleges. college. [indust : p 8,246. Hohenlimburg, t. nr Dortmund, Westphalta, metal Hohenlinden, vil. nr. Munich, Bavaria; et. battle 1800; p. 1,040.

Hohenlohe, auc. Francoman fractifality; musical mst. manuf.; p. (with garrison) 9,020

Hohenzollern, Kingdom of Prussia, on R. Danube, area 441 sq. iii., p. 72,500; agr.; tap. Sigmaringen. Hokianga, pt. of New Zealand, in Hokianga co. (N. 1sl ), p. 2,760. Hokitika, f. in co. Westland, New Zealand, on H. R. (S. isl.), p. 2,943. Hokkaido, Japanese name for N. dev. of Mikado's Empire. [1], 5,259. Holbeach, mkt. t in Fen dist, of S Liacolnsh, Fng., Holbeck, par. (industri.) of Leeds, W. R. Yorks, Eng., p. 39.779

Holborn, net. bor. of London, namedy N of c., Holborok, r. nr. Boston, Mass., U.S.A. p. 3.516.

Holcombe, industril. par. nr. Bury, Lanes., Eng., Holcombe, industri, par. nr. Buny, Lancs., Eng. p. 5,741.
Holden, t. Worcester co. M. S. U.S.A., p. 2,743.
Holderness, arv. of E. R. Yorks, Eng., between R. Humber and N. Sea, agr. and pastoral.
Hollcham, vt. in Nortolik, Ling, (d.s.), p. 1,2467.
Hollcham, vt. in Nortolik, Ling, (d.s.), p. 1,246.
Hollcham, vt. in Nortolik, Ling, (d.s.), p. 1,246.
Holland, the kingdom of the Netherlands, N. Europe, including the provs. of N. and S. H.; area 12,588.
sq. m., p. 5,950,000; agr., manuf., fisherics; cap. Amsterdam (q.v.).
Holland, Parts of, the I en co. of Lincolnsh, Eng., p. 1,557.
Hollinbourn, par. in mid-Kent, nr. Maidstone, Eng., hollingworth, z. nr. Staleybridge, in E. Cheshire, Eng., p. 2,581. Eng., p. 2,381. [p. 8,372. Hollinwood, indust. par. nr. Oldham, Lancs., Eng., Hollister, A. San Benito co., California, U.S.A.,

p. 2,740. Holliston, f. in Middlesex co., Mass., U.S.A., p. 3,546.

Holloway, N. dist. of Islington, bor. London, Eng., Upper H., 37,127; Lower H., 39,364. Holly Springs, t. Marshall co., Mississippi, U.S.A., educati. centre, p. 2,646. Holme Cultrum for Abbey Holme), t. in Cumberland, Eng., nr. Wigton, p. 4,300. [Yorks, Eng., p. 9,326. Holmirth, industri. dist. nr. Huddersfield, W. R. Holmwood, 246. at foot of Surrey Hills, nr. Dorking, Eng., p. 246. Holmwood, vii. at foot of Surrey Hills, nr. Dorking, Eng., p. 1, 216.
Holquin, t. Santiago prov., Cubs, p. 6, 127.
Holstein, former Danish duchy, now prov. of Prass.
Holston R., head of Tennessee R., runs 300 m. through Virgmin and Tennessee, U.S.A.
Holt, bor. Denbighish., Wales, on R. Dee, p. 1, 243.
Holton, c. Kansas, nr. the Indian Reservation, p. 3, 417.
Holphead, s.pt. and naval stm. Anglesscy, Wales, on Holyhead 1sl. (7† sm. long, width † m. to 4 m.), p. 10, 628. ro,638.

Holy Ial., Scotl., in: F. of Clyde, nr. Isl. of Arran; also isl. (called sometimes Lindusfarne) off coast of Northumberland, Eng. 

Holytown, snl. f. nr. Glasgov, Lanarksh., Scotl., p. 2,650.
Holywell, mkt. f. Flintsh., N. Wales, one of the Flint Holywood, 5pt. on Belfast Lough, co. Down, Ireland, p. 3,300; also par. Dumfriessh., Scotl., p. 1,124.
Holzminden, f. on R. Weser, Brunswick; school of engineering; p. 8,54t.
Homberg, f. nr. Dusseldorf, Prussia, on R. Rhine, p. 4,500; also t. on R. Eize, nr. Cassel, Pruss., p. 2673.
Homburg vor-der-Hobe, famous wat. pl. of Hesse-Nassau, Pruss., at foot of Taunus Mnis.; res. p. 1000. 10,000.

Homel, ¿ Russia, govt. Mohilev: manuf.; p. 22,416.

Homer, vii. Cortland co., New York, U.S.A.; p. 2,78s.

Homer viii. Cortland co., New York, U.S.A.; p. 2,78s.

Homestead, bor. Allegheny co. Penn., U.S.A.; site of the great Camegie ironwks; p. 14,500.

Ho-Nan, fertile inland prov. Clinia, traversed by Yellow R; area 66,900 sq. m., p. 22,000,000; cap.

Ho-Nan, ertile inland prov. Clinia, traversed by Yellow R; area 66,900 sq. m., p. 22,000,000; cap.

Ho-Nanc, on affli. of Houng-Ho

Hondour on Niphon, largest sii. Japan; area 87,48s

sq. m., p. (est.) 28,000,000.

Honduras, Réphib Centil. Amer.; area 46,250 sq. m., p. 74,000; cap Tegucigalpa.

Honduras, British.—[See Brit. Honduras.] [4,000.

Honesdale, / on Lakawaxen R., Penn, U.S.A., p.

Honesdale, / on Lakawaxen R., Penn, U.S.A., p.

Honey Lake, I.assen co., California, U.S.A., nr.

Pyramid I; no outlet. Hoorn, old fishing t. on inlet of Zuyder Zee, N. Holland; Tasman, discoverer of Tasmania, and Holland; Tasman, discoverer of Tasmania, and Koen, found, of Batava, born here; p. 11,200 (U.S.A. Hoosack Mens., part of Green Mountain range, Mass., Hoosack Falls, vil. on R. H., New York, U.S.A.; agr., imp. manuf.; p. 6,000. Hake dist., 8} m. long. Hopatcong L., Morris co., New Jersey, U.S.A.; lovely Hope, t. Steel co., N. Isakota, U.S.A.; p. 3,263. Hopedale, Moravian Miss. stn. Labrador.

Hope Point, case on the Arctic cst. of Alaska.
Hopetown, 6. on Orange R., Cape Col.. S. Africa, p. (dist.), coo; also t. Brit. Gulana; p. 2,000.
Hopkinsville, c. cap. Christian co., Kentucky, U.S.A.; college, also insane asylum; p. 8,600.
Hopkinton, f. Middleser co., Mass., U.S.A.; p. 4,140.
Hor, mrs., in Araba Petrea, between Dead S. and G. of Akaba; alt. 4,560 ft.
Horbury, mfg. f. in W.R. Yorks, Eng., nr. Wakeheld; Horde, infig. f. Westphalia, nr. Dortmund; p. 17,420.
Horzeb, Mrt., Arabia, wide Sinal, Horzebid, f. on L. of Zurich, Switzerland; p. 5,600.

Horfeld, t. nr. Bristol, Gloucestersh., Eng.; p. 7,114. Horgen, t. on L. of Zunch, Switzerland; p. 5,600. Horlet, commune in Kruman & p., Boheiman Forest, Austria, noted for periodical pice. of Passion plays, res. p. 1,240; also textile and sugar reig. t. in Königgrätz govt. of Boheima, Austria; p. 8,000. Horley, p. 4, Surrey, Eng., on R. Mole; p. 3,100. Hora Cape, S. most pt. of S. America. [castle. Hornby, vd. on R. Lune, nr. Lancaster, Eng.; old Horacastle, mkt. t. Lincolnsh., Eng.; impt. cattle fage. ii 2 cm.

fairs; p. 3,900. Hornchurch, t. nr. Romford, Essex, Eng., p. 6,427. Hornellsville, c. Steuben co., New York, U.S.A.; ry.

car works; p. 12.500. [D. 3.000. Hornsea, var. f). on cst. of E.R. Yorks, Eng.; Hornsey, residenti, stat. of N. London, Eng.; p. 84,602. Horodenka, t. on trib of R. Dneister, E. Galicia;

Horodenka, t. on trib of R. Dneister, E. Galicia; corn tr., candle iactories, etc.; p. 12,000.

Horowitz, mftg. t. between Prague and Pilsen, W. Bohemia, Austria. p. 3,680.

Horsens, Danish 5tt. on coast of Jutland, p. 13,56r.

Horsforth, mftg. t. in W.R. Yorks, nr. Leeds, Fng. n. 126.

Horsorth, ming, 6 in vize.

Eng., p. 9,145.

Horsham, 4 on R. Arun, Sussex, Eng., p. 11,314;
also bor, of co. Borung, Victoria, p. 3,140.

Horta, cap. of Fayal Isl., Azores, p. 8,200.

Horten, 5th. Norway, in: Christiania, p. 8,500.

Horwich, 4 nr. Manchester, Eng.; bleaching and

cotton-spg., p. 16,286.

Hoshangabad, asst. Nerbudda div., Centl. Prov.
Brit. India, area 4,994 sq. m., p. 449,800; suffered
heavily by fanane; cap. II., t. on Nerbudda R.,

p. 14,000. Hoshiarpur, dist.

p. 14,000.

Hoshiarpur, dist. Jullundur div, Punjab, Brit. India; area 2,244 sq. m., p. 990,500; no ry. or nav. R. in dista; cap. Hi, p. 22,500; lacquer works, inlaid goods manuf.

Hot Springs, c. cap. Garland co, Arkanses, U.S.A., health resort; p. 10,000; also vil., Custer co. 5. Dakota, U.S.A. p. 2,780.

Houghton, 27th Michigan, U.S.A. Houghton co. Houghton-le-Spring, t. m. colly. dist. co. Durham, Eng., p. 9,753. m. Myddisear. [London, p. 12,000.] Eng., p. 9.753 [London, p. 12,000.]
Hounslow, J. in Middlesex, Eng., subn. to W. Housatonic R., Connecticut and Mass. U.S.A. (130 in, long), empties into Long Isl. Sound.

(150 m. long), emprise into Long Isl. Sound.
Houston, 7. on Buffalo Bayou, Harris co., Texas, U.S.A.; large cotton trade, p. 78,800.
Hove, 11th. large cotton trade, p. 78,800.
Howerl, 71th. Turner co., S. Dakota, U.S.A., p. 3,78,16owden, mkt. 7 E. K. Yorks, nr Hull, 1mg, p. 2,804.
Howell, 7. Livingstone co., Michigan, U.S.A., p. 3,78,16owden, dist. Burdwhan div. Bengal, Brit. India, area 476 sq. m., p. 855,000; cap. H., c. on R. Hooghi, p. 152,000; hdqrs, of Jute manuf.
Howth, par, in: Dublin, Ireland, folkg., p. 1,102, Hill of Howth, alt. 563 ft.
Hoxter, 7. on R. Weser, Westphalk, Priss, mint, faimous Benedictine abbey (Corvel), p. 7,220.
Hoxton, dist. of London, p. 57,200.
Hox, 1st. and Addd. of the Orkneys, Scotl., ir. Stromness.

ness, hoylake, cst. 1. nr. Birkenhead. Cheshire, Eng., Hoyland, Nether, 1. (industri) W.R. Yorks, Eng., nr. Barnsley, p. 14,639. [p. 225,000; cap H., p. 8,120. Huanaewellea, dep. 6. Centl, Peru, area 10,814 sq. m., Huanuco, dep. Centl. Peru, area 10,412 sq. m., p. 150,000; cap) H., p. 6,230. Huarae, 1. in dep. Ancachs, Peru, p. 5,120. Huarae, 1. in dep. Ancachs, Peru, p. 5,120. Hubli, 1. in Dharwar div., Bombay, Brit. India, cotton and slik wwk, tr., p. 60,000. In 18, 18, 28, 29.

and silk wvg. tr., p. 60,000. [p. 15,870. Hucknall Torkard, industl. t. nr. Nottingham, Eng.,

Hucknall-under-Huthwaite, industri. per. nr. Mans-

field, Notts, Eng., p. 4,230. Huddersfield, mftg. t. W.R. Yorks, Eng., woollen and ruduceranen, mig. f. w.k. Torks, Eng., woolen and cott textiles, p. 107,895.
Hudiksvall, 594. Sweden, on inlet of G. of Bothma, Hudson, f. Middlesex co., Mass., U.S.A., p. 500. also t. cap. Columbia co., New York, U.S.A., p. 100,000; also t. St. Croix co., Wisconsin, U.S.A.,

p. 1,000.
Hudson, R., New York, U.S.A., flows (350 m.) from the Adrondack Mins. to New York Harbour.
Hudson's Bay, mland sea, Canada, area 540,000 54, m., communicating by Hudson's Strait (400 m. long) with Davis Strait.

Hué, cap. of Annam, nr. mth. of Hué R., Cochin, China, royal pal., glass factories, impt. tr., p. 50,000. Huehuetenango, c. Guatemala, remns. of anc. Indian

capital, p. 12,000, Huelva, maritime prov. S.W. Spain, area 4,122 5q. m. raueiva, maritinie prov. 5. w. spain, area 4,722 50. m., mining, vine and olive growing, stock-raising, fisheries, brandy distillery, etc., p 310,000, cap. H., spt. on Adharte, p 27,000. [mining dist., p. 17,000. Huercal-Overa, t. S.E. Spain, Almeria prov., in Huesca, frontier prov. N. E. Spain, area 7,839 54, in., great wine and tumber tr. with France, p. 249,363;

great wine and timber it, with France, p. 249,303; cap H., i on R. Isuela, p 11,239.

Hughenden, vz. in Bucks, Eng., nr. Wycombe, p. 1,805; il namor, seat of Earl of Beaconsheld.

Hugh Town, czp St. Mary's Isl., Scilly Isls, Hull, or Kingston-upon-Hull, spt. c, E.R. Yorks, Fing., at milux of R. Hull in est of the Humber; impt manuf., and gr. shipping fir; p. 278,624; d.80 c of Quebec, Canada, on R. opp. Ottawa; saw mills, paner factures. b. 18 06.

c of Quebec, Canada, on R. opp. Ottawa; saw mills, paper factories, p. 18,000.

Humação, c. of isl. of Porto Rica, cap. prov. sune mane, p. 4,500.

Humansdorp, c. nr. Port Thzabeth, Cape Col. Humber, e.59 of R.'s Ouse and Trent (38 L. long), separating co 's Yorks ind Lincoln, Eng.; fine waterway, 1 to 7 m. wide.

Humboldt Bay, mlet of cst of California, U.S.A., n. 2,7%.

Humboldt Lake, Nevada, receives Humboldt R. Humboldt Mtns., range in E. Nevada, U.S.A., in Humboldt L., Humboldt Mtns., range in E. Nevada, U.S.A., in Humboletz, in Czisłau, Bohenian, p. 6,400. [of H. Humbya, or Ulua, R. of Honduras, flowing into G. Hu-Nan, mland prov. of China, area 83,226 sq. ni., v. 2160,000; Can. Chanc. Shz.

p. 21,000,000; cap. Chang-Sha. Hun-Chun, trading f, Manchuria, on Corean frontier; p. 10,000.

Hungary, kingdom of Cent Europe, part of Austria-

Hungary, kingdom of Cent Europe, part of Austria-Hungarian Emipre. area 124,325 ylm., p. 21,000,000; cap. Buda-Pesth, on R. Danube (g v.). Hungerford, mkt. c. Berks, Eng., on Witts border and R. Kennet, p. 3,009. Huningen, c. in Upper Alsace, Germany, on R. Rhine, Hunmanby, c. in N.R. Yorks, Eng., nr. Scarborough; p. 3,600. Hunstanton, wat. pl. on E. shore of the Wash, Nor-Hunsworth, vol. nr. Bradford, W.R. Yorks, Eng., p. 1,222.

Huntingdon, inland co. W. of Cambridgeshire, Eng. ; runninguon, miand co. w. or camoringeshire, Eng. ; p. 55,583. Also co. t. same name, on R. Onse, birchmkg. p. 4,003; also t. in Penn. State, U.S. A., car works, p. 6,400; also t. in. Canglinawaga, Quebec, Canada, p. 1,233.

Huntington, t. on Little R., Huntington co. Indiana, I.T. A. w. and works to the constitution of the c

U.S.A., ry and wood works, p. 10,940; also t. on Olno R. Cabell co., W. Virginia, U.S.A., machine

Olio R. Capen co., w. vignos, o.s.n., maximos works, p. 37,165.

Huntly, mkt. L. at confluence of R.'s Bogie and Daveron, Aberdeensh., Scott., p. 4,229.

Huntsville, L. jn Madison co., Alabama, U.S.A.; cotton-milk, p. 8,100.

Hu-Pe, prov. China, N. of the Yang-tse-Kring, area for the p. 2, 200,000; c.m. Han-Kau.

Hu-Pe, proz. China, N. ot the rang-res-Kring, area 69,477 sq. ni. p. 33,500,000; Cap. Han-Kau. Hurdwur.—(See Hardwar.)
Hurley, vzf. Wisconkin, U.S.A., p. 2,765; also par E. Berks, Eing., on R. Thames; p. 1,345. [p. 5,300. Hurlford and Crookedholm, mining f. of Ayr, Scott., Cap. 2, 200. and the tween Canada and

Huron, L. (area 23,610 sq. m.) between Canada and

U.S.A., one of the 5 gt. I..'s of the St. Lawrence basin; 280 m. long; also vil. in S. Dakota, U.S.A., p. 3,120.

basin; 280 m. iong; also vt. in S. Dakota, U.S.A., p. 9,370.

Hurrur, or Harar, walled t., p. 35,000, in state same name, Galla country, E. Africa; p. (of dist.), 2,000,000.

Hurst, mftg. t. in Lancs, Eng., pt. of bor. of Ashton-under-Lyne, p. 7,852.

Hurstplerpoint, vil. nr. Hastings, Sussex, Eng., Husch, mfg. t. in Moldavia, Roumania, nr. R. Pruth; p. 13,462; cathedral.

Husiatyn, t. in Galicia, Austria, nr. Czortkow; p. 5,643.

Husum, 59t. Schleswig-Holstein, Fruss.; cattle mart, p. 8,500.

Fock salt mning dist., p. 10,452.

Hutchinson, c. cap. Reno co., Arkanas, U.S.A., Hu-Tchin, fort t in China prive. Che-Khang, p. 30,000.

Hutt, t. in Wellington dist. New Zealand, p. 3,231.

Huy, t. (fort.) nr. Liége, Belgium, in vine-growing dist., p. 15,470.

Huyton, t. in Lancash, Eng., nr. Liverpool, p. 4,550.

Huyton, t. in Lancash, Eng., nr. Liverpool, p. 4,550.

Huyton, t. in Lancash, Eng., nr. Liverpool, p. 4,550.

Huyton, t. in Lancash, Long, nr. Liverpool, p. 4,550.

Huyton, t. in Lancash, Eng., nr. Liverpool, p. 4,550.

Huyton, t. in Lancash, Long, nr. Liverpool, p. 4,550.

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Huyton, t. in Lancash, Long, nr. Liverpool, p. 4,550.

Hyde, industri, mkt. t. nr. Cheshire, Eng., on K. Tame;

Hyde Park, t.'s in Norfulc co., Mass., p. 14,500, and Dutchess co., N.Y., U.S.A., p. 7,840; also subn. dist. Chargo, Illinois, U.S.A., p. 17,500. Hyderabad. (See Haiderabad.)

Hydra or Idra, 1st. Greece, oil Morea; area 15 5/690.

Hydra of Idra, 1st. Greece, oil Morea; area 56 5c. m.,

Hydres, winter health resort ar. Toulon, dep. Var.

France, in fruit and flower-growing dict., p. 18,500.

Hydres, Isis in the Mediterranean off II.

Hydre, Jor. Kent est. Eng., nr. Folkestone; Royal

school of musketry; p. 6,387.

Ibadan, t 'in Yoruba country, nr. Lagos, W. Africa, p 130,000. [Amer, p. 17,000. [Amer, p. 17,000.]
Ibagué, or Ibaqué, t. dep Tolina, Colombia, S
Ibarra, t. in Ecuador, nr. Quito, p. 12,000; terrible earthquake, 1868. framean.

Ibaza, sm. 1st. of the Baleanic group in the MediterIberia, the name grown to Spain by the Greeks, and A.

N. of Spain and Portugal.

Ibi Gamin, or Kimet, min. of the Humalayas, alt. 25,373 ft. [p 8,400. Ibo, !. at head of Niger Delta, Guinea, W. Africa, Ica, cst. dep. Peru; area 6,295 sq. m., p. 94,000; cap.

lea, est. dep. Pecu; area 6,295 sq. m., p. 94,000; cap. Ica, p. 12,000.

Iceland, Damish ref in N. Atlantic O., 230 m. E. Green-land; rica 40,247 sq. m. barren and inthous, with volcanoes, highest pk. Oreata Jokuli, alt. 6,400 ft., p. 7,000; cap. Reykjavik.

Ichaboe Isil, Hrivsh pos. offest. Namaqualand, German Ichab, t. m. Hazaritagh dist., kengal, India, p. 7,530

Ichang, treaty port, in Hupeh prov. China, on R. Yangtse, large Ir., p. 70,000.

Ico, t. in Brazil, on R. Jayuralbe, prov. Cc ara, p. 7,800.

Icy Cape, prom. on N. est. Alaska, Arctic Oc. Ida, min. range Asia Minor, highest pk. Gargaron

Ida, min. range Asia Minor, highest pk. Gargaron (mod. Kas Dagh), alt 5,749 ft.; also t. m Igara, Nigeria; also t m Tozando, Centl. Japan, p. 14,000. Idaho, a N W. date of U.S.A. Rocky Mins., and rich mineral region, area 84,290 sq. m., p. 325,000; cap. Boisé; also Id tho c. in Boisé co., p. 4,120, and Idaho Springs, t. in Clear Creek co., Colorado, U.S.A., 11. 3,240

ldar, or Edar, native state India, Gujarat div., Bombay; area, 1,500 sq. m.,p. 304,000, cap, ldar,nr. Ahmedabad, p. 7,420. [also R. Notts, Eng. trib, to R. Trent, Idle, mitg. t. nr. Bradford, W. R. Yorks, Eng. p. 7,560; Idria, t. in Carmola, Austria; quicksilver mining,

p. 5,800.
Iesi, or Jesi, willed / nr. Ancona, Italy, p. 20,000.
Iesi, or Jesi, willed / nr. Ancona, Italy, p. 20,000.
Igara native terr. of the Niger delta, W. Africa, now makes livit protectin.

under Brit. protectn. [&c., p. 25,000.
Iglan, t. in Moravia, Austria; cigar factories, textiles, Iglesias, t. in Sardinia, Italy, Cagliara prov.; cathedrai,

Igresuas, f. in Gatunias, Juny, D. S. 200.

Iglo, L. on R. Hernad, nr. Leutschau, Hungary, p. 7,860.

Iglo, L. on R. Hernad, nr. Leutschau, Hungary, p. 7,860.

Ike-Aral-Nor, L. Mongolia, Khaihas Terr., 40 m. long.

Ikelemba, B., trib. of R. Congo, Equatorial Africa.

Iki, isl. off N.W. est. of Kiushiu, Japan; area gr sq. m., p. 36,350. [Bangweole, S. Centl. Africa. Ikala, vsl. where Dr. Livingstone died, nr. S. shore L. Ilans, l. on the Vorder Rhein, cant. Grisons, Switz.,

p. 3,126.

lichester, par. on R. Yeo, Somerset, Eng., p. 1,024.

lichester, par. on R. Yeo, Somerset, Eng., p. 1,024.

lietsk, formly, Fort lietskaya, Zaschita, t. in prov.

Orenburg, Russ.; rock-salt, brine-baths, p. 12,200.

liford, gt. t. on R. Roding, Essex, Eng., bordering on

Hainault Forest; paper mills, photo-plate works,
p. 78,205; Ilford (Little) on opp. side of R. Roding. D. 18,500

n. 18,500.

In 18,500.

Eng., p. 8,935.

In 20, 18,935.

In 20

Eng., p. 7,592.

[N. of Strasburg. H. of Strasburg. H. of Strasburg. H. of Strasburg. H. of London Hapel, to Chall. Coquambo State, p. 7,430.

Hlawarra, forthe dist. N.S.W. S. of Sydney.

Hle-et-Vilane, dep. N.W. France, on Eng. Chan.; area 2,690 sq. m., agr., p. 611,500; cap Rennes.

Hler, R., Bayaria, risung in Algauer Alps. trib. (100 m.) of R. Danube.

Hillindis. Actae S. of Wisconsin, U.S.A. named after its

(103 m.) of K. Daiube.

Illinols, state S. of Wisconsin, U.S.A., named after its pru. R., a large trib. (360 m.) of R. Mississippi; area of state, 56,650 sq. m.; sometimes called 'The Prairie State'; p. (nearly), 6,00,000; cap Spring field; most pop. c. Chicago (2,v.)

Illyria, former mins, dro, of Austria, now Carinthia, Carmiola, and the Kustenland.

Ilmen, L. govt. Nosgorod, Russ., area 355 sq m Ilmenau, summer resort. Thuringian forest, Welmar, Germy.; toy manuf.; p 12,000 Ilminster, nkt. t. on K. Isle, Souierset, Eng. p 2 467 Iloilo, cap of prov. of same name, Paudy, Philippine

Isloito, cap of prov. of same name, ramay, ramppine Islo.; coca-nut oil; p 12,500.

Isley, L. nr. Newbury, Berks, Eng., p. 1,236.

Imaharu, L. nr Japan, nr. Matsuyama, p 21,577.

Imbros, turkish 132 in the Ægen Sea, S. end of

Phracian Chersonese penin.; fertile fruit-growing

dist. p. 92,500 Imperial, vii. Chase co, Nebraska, U.S. A., p. 3,420. Inca, t. nr. Palmas, isl. of Majorca, Spain, p. 7,430. Inco-in-Makerfield, mfg. t. adjoining Wigan,

Lan's, Eng., p 23,140.
Inchape...-See Bell Rock.)
Inchape...-See Bell Rock.
Lenh. **FBothnia** 

Leith. [Bothnia Indals-Bif, R of Sweden, flows (60 m) to G of Inde, t. in Mexico, Durango prov., p. 6,076 Independence, t. on pranie, S. of Missouri R., Jackson co., Missouri, U.S.A., p. 7,200; also t. Buchanan co., Iowa, U.S.A., p. 4,860; also t. in Montgomery co., Kansas, U.S.A., p. 3,647.
India, the great Asiatic country, forming an Imperial appropriate to the Births Crown, with an area of ower

appanage to the British Crown, with an area of over 1,700,000 sq. m, and a p. numbering over 300,000,000. The various divisions and native States are all given in alphabetical order.

India, French, possessions or establishments of the French Republic on the Coromandel coast, Pondi-cherry, Kanikal, Yanovan in Orssa, Mahe on the Malabar coast, and Chandernagor in Bengal; total area zoo at m. p. 273.000. Seat of Colonial govt., Pondicherry.

Pondicherry.
Indiana, state between Kentucky and Michigan, Illinois and Olino, U.S.A., area 36,350 sq. m., p. 2,750,200. Industries, agr., minh, and indig: cap. Indianapolis on White R. p. 235,000; meat-packing, Indian Archipelago.—(See Malay Archipelago.)
Indian Lake, connected with Hudson R., New York,

Indian Ocean, extends from S. of Asia and E. of Africa to the C. of Good Hope and C. Leeuwin in Australia, esparated from the Pacific by the Malay Arch, and Australia,

Indianola, f. in Warren co., Iowa, U.S.A. p. 2,785; also port of Calhoun co., Texas, p. 3,172.

Indiaa Orchard, t. nr. Springfield, Mass., p. 2,080. Indian River, channel, co.'s Valusia and Biavard, Florida, U.S.A. Indian Territory, since 1907 part of the State of Oklahoma, formerly reservation in U.S.A. of tribal Indians, between Texas and Kansas, area 31,440 sq. m., p. over 700,000; chf. t. Tahlequah (cap. of the Cherokee nation). Indigo, t. in co. Gogang, Victoria, p. 1,464. Indoce, nat. state, Central India Agency. area 8,402 sq. m., p. over 1,000,000; cap. c. Indore, on R. Katkı, p. 98,740.

98,740.

p. 98.740.

Indre, dep. Central France, area 2,666 sq. m., p. 266,000; agr. and industri.; cap. Chateauroux.

Indre-et-Loire, dep. Central France, to the N.W. of Indre, area 2,377 sq. m., p. 334,000; agr., vineş silk factories; cap. Tours.

Indus, R. N.W. India, rises in Tibet, and flows (1,800 m.) through Kashmir, the Punjab, and Sindh to the Arabian Sea.

Ineboli, £. nr. Kastomuni, on the N. coast of Black S., Asia Minor; open port, good trade in mohair and wood: n. 0.224.

[Eng. p. 1,147.

Asia Minor; open port, good trade in mohair and wool; p. 9.224.
Ingatestone, sm. £ in Chemsford Hundred, Esser, Ingenbohl, £ in Switzerland, p. 3.104.
Ingenbohl, £ in in Oxford co., Ontario, Canada, on R.
Thames; manul., p. 4.820.
Ingleborough, ***mear Settle, Yorks, Eng., p. 2.738 ft. Ingleborough, ***mear Settle, Yorks, Eng., alt. Inglebon, £ nr. Sedburgh, W.R. Yorks, Eng., p. 2.743.
Inglia, mig. £ nr. Bologna, Italy, p. 14.500.
Inglewood, post £ s in S. Australa, nr. Adelaide, C. Clive, Queensland, and nr. New Plymouth, New Zealand; also muning £ in Victoria, 130 m. N.W. of Melbourne, p. 7.640.

of Melbourne, p. 1,640.
Ingolstadt, fort. Bavarian c. on R. Danube, nr. Munich;

ammunition factories, p. 24,246. [Keighley, p. 9,891. Ingrow and Hainworth, mite. dist. W.R. York, n. Hahambe, or Inhambane, Portuguese 2. in East Africa, 200 m. N.E. of Delagon Bay, p. 7,260. [hahambupe, 2. Brazil, industri. p. 4,954.

Inkerman, ruined t. nr. Sebastopol, in the Crimica,

Inkerman, rumed f. nr. Sebastopol, in the Urmea, Inn, R. traversing Switzerland, the Tyrol, and Bavaria, trib. (320 in.) of R. Danube, the anc Enus. Innerkirchen, f. in Switzerland, p. 1,871. Innerleithen, f. and health resort on the Leithen Water, Peeblesh, Scotland, p. 2,547. Innerwick, f. on coast E. Haddingtonsh., Scotl., nr. Dubbers, v. v. 16.

p. 20,200. [3,200. Interlaken, vil. on R. Aar, cant. Bern, Switzerl., p. Intra, industri. & Predmont, Italy, on L. Maggiore, p.

Intra, industri. 2. Pedmont, Italy, on L. Maggrore, p. 5,700.

Introdecqua, 1. nr. Sulmona, prov. Aquia, Italy, Inversallochy, fishing val. nr. Fraserburgh, Aberdeenshire, Scotl., p. 1,046.

Inversaray, burgh on Loch Fyne, Argylish, Scotl, one of the Ayr burghs, p. 533.

Invertervie, burgh, co. Kincardine, Scotl., one of the Montrose Burghs, p. 1,173.

Invercargill, 1. in Southland co., New Zealand (so. isl.); fine bldgs. p. 1,030.

Inversell, 2. N.S.W., 383 m. N. of Sydney, p. (of Invergordon, 504. on Comarty Firth, Scotl., p. 1,731.

Inverseithing, val. nr. Arbroath, Scotl., p. 1,731.

Inverseithing, val. nr. Turtif, Banfish, Scotl., p. 1,044; also burgh on Firth of Forth nr. Dunferniline, one of the Stiting Burghs, p. 3,391.

Inverness, burgh and co. 1. (p. 22,216; tweed and cloth industry) of Invenness-shire, Scotl.; area (of shire) 4,351 s.d. m., p. 87,270; fisheries and agr.

Invernald, pic. hamlet on Loch Lonnond, Stitlingsh, Scotl., one for he Elgun group, p. 3,604. one

Scotl. [of the Eigin group, p. 3,960. Inverurie, burgh on R. Don, Aberdeensh., Scotl., one

Investigator Strait, N. of Kangaroo Isl., S. Australia, Iona, s.t. off est. of Mull, Argyllsh., anc. burial pl. of Scottish tings: also isl., pleasure rest., on Hudson R., New York, U.S.A. In farming gran, p. 560. Ionia, a. of Ionia co., Michigan, U.S.A., on Grand R., Ionian Isls., grp. in Mediterranean, belonging to Greece, total area 905 sq. m., p. 250,000; 7 slands in all; Corfu, Cephalonia, Zante, Santa Maura, Ithaca, Paxo, and Cerigo; formerly under Brit. protection. Ionian Sea, that part of the Mediterr, between Greece on E. and Italy (and Sicily) on the W. Iowa, state between the R.'s Mississippi and Missour, U.S.A.; area 56,055 sq. m., p. 2500,000; cap. Des Moines, in centre of coal region. Iowa c. (university, p. 8,006) stands on the Iowa R. (275 m. long, trib. of the Mississippi) in Johnson co. Iowa Falls is the name of a town in Hardin co. 1. also on the I. River. Ipek, £ in Turkey, Kosseveh vilayet, the anc. seat of the Servian pattiarch, p. 10,000.

Ipswich, mkt. £ and mftg., Suffolk, Eng., on R. Orwell, p. 73,939; also name of manuf. t. nr. Brisbane, Queensland; and of vil. in Essex co., Mass, U.S.A. In prov. Barcelona, Spain; cotton, ribbons, checolate, p. 10,560. [quape, 36. 850 Paulo prov., Brazil, p. 6,427. [quique, or Puerto de Iquique, £ in Chili, cap. of dep. and prov. same uname; voltine and nitrate of soda trade; p. 42,450.

trade; p. 424,60.

Irak, or Irak Ajemi, prov. of Centri. Persia; grain growing and carpet weaving; area 138,224 sq. m.; the anc. Media, p. 1,000,000; cap. Sultanabad.

Irak Arabi, prov. of Asatte Turkey, the anc. Chaldea, watered by R. 'T Turki's and Euphrates.

Iran, gt. Aslate plateau, embracing Persia, Baluchistan, and Afrianstan.

Ifan, gr. Asante, rateau, emoracing rersia, panuciusaan, and Afghanstan.
Irapuata, industri. t. in Central Mexico, p. 33,000.
Irawadi, R., princ. R. of Burma, flows south (900 m.) to B. of Bengal.
Irithur, t. in govt. Perm, Siberia, Russ.; ironworks and Irchester, t. in Northanis, Eng., p. 1,800.
Ireland, the more westerly of the two princ. Brit. Isls.,

area 32,393 sq. 111., 1) 4,488,000; cap. Dublin (g.v.). Divided into provs. of Leinster, Munster, Ulster, and Connaught. Industries agr. (many sml. holdings), fisheries, mining, manuf. fisheries, mining, manuf. [Irish Sea. Ireland's Eye, sm. rocky ssf. nr. Howth Harbr. in the Ireland Isl., o.e of the Bermudas. Iriga, t. m Luzon, Philippine Isls.; in dist. producing

rice, sugar, tobacco, etc.; p. 17,000.

Irish Sea, that part of the Atlantic Ocean lying between Eug. and Wales and Ireland and S. of Scotl.

Irkutsk, great commercial c. of Asiatic Russ., on the Angara R., styled "the Pans of Siberia," cap. of

Angara K., styled the land prov. same name; p. 70,500.

Iron Acton, par. nr. Thornbury, Gloucestersh., Eng.,

[3,204] p. 1,200.

Ironbridge, dr.f. of Madeley, Shropshire, Eng., p. 1,500.

Iron Mountain, t. in S. François co., Missouri, U.S.A., p. 1,50; also mitg. t. in Dickinson co., Michigan, U.S.A., on the Menominee R., p. 10,340.

Ironton, cap. of Lawrence co., Ohio, U.S.A.; blast

firmaces; p. 12,200.

Ironwood, c. Gogebic co., Michigan, U.S.A.; iron-

Ironwood, c. Gogebic co., Michigan, U.S.A.; tronminng; p. 10,153.
Iroquois, vtl. in Dundas co, Montreal, Canada, p. Irtish R., Siberia (1,900 m.), trib. of R. Obi.
Irun, t. on N.E. frontier, Spain, nr. San Sebastian; tanning and brandy distillery; p. 10,000.
Irvine, burgh (of the Ayr group), Scott., nr. mth. of R. Irvine; shipbldg., p. 10,180.
Irwell R., flows(30 m.) past Manchester to the Mersey.
Irwin, bur. of Westmoreland co., Penn., U.S.A., p. 4,692.

Irwin, oor. Ot western and the Danube.

Isar R., of Bavaria flows (155 m.) from the Tyrol to
Isbarta, ch. t. of sanjak in Konia vilayet, Asia Minor;
the anc. Baris; p. 20,000; suffered severely from
earthquake in 1889.

Isbo, L. nr. Pyrenees, N. Italy.
Ischia, 15t, in G. of Naples, Italy, area 26 sq. m., p.
27,000; fam. minl. baths; Ischia t. has 7,000 inhab,
Casamicciola (p. 3,500) was ruined by earthquake in
1882.

Ischl, wat. \$1. in Gmünden dist., Upper Austria, nr. the Schatberg mtn.; salt works; res. p. 20,000 (20,000 visitors annually). [Denmark. Lee, ford (as m. by so m.), N. side of Zealand isl., Iseghem, mftg. f. ar. Bruges, Belgium, p. 10,005, labre, dej. in S.E. France, watered by R.'s iser and Rhône; area 3,160 sq. m. p. 60,100: can. Grenoble

Rhône; area 3,:80 sq. m., p. 593,500; cap. Grenoble.
Iseriolan, t. in Westphalia, Pruss.; metal industries, plus, needles, etc.; p. 26,500.
Iseriala, mftg. t. in prov. Campobasso, Italy, p. (of

dist.) 10,200.

dist.) 10,200.

Isfahan, or Ispahan, **prov. Persia (anc. Aspadana).

cap. Isfahan c., former cap. of Persia, on Zendarud
R., p. 82,000, exclusive of Armenian col. of Guifa on

opp. bank of R., with 4,000 inhab.

Ishim, **con R. same name (1,000 m. long) in Russian
govt. Tobolsk; famous fair, one of the most impt.

for agr. prod. in Siberia; p. 8,400.

Ishinomaki, **ci in Jana, on Ishinomaki B., p. 20,120.

Ishipeming, c. in the Marquette iron dist. of Michigan,

IL S.A., 12, 500.

Just J. P. 13,500.

List, R., principal trib. of R. Thames, Eng., so named until its confluence with Thames at Dorchester until its confluence with Thames at Dorchester Isjum, industri. 4: in Russia, p. 2,000.
Iskanderum, o. Alexandretta, 596. nr. Antioch, Iskardo, f. on upper Indus, Kaishmir, India, p. 9,400.
Iska, R., of Perth and Forfar co.'s, Scot., trib. (40 m.) of R. Tay; also R. of Banfish, Scotl., trib. (48 m.) of R. Deveron.

of R. Deveron.

Islamabed, & on R. Jhelum, Kashmir, India, p. 8,340.

Islamabed, & on R. Jhelum, Kashmir, India, p. 8,544.

Islampore, & in Boulbsy Pres., India, p. 8,554.

Islaw, & S. Gold, & S. Gold, & S. M., p. 7,560.

Isle Jesus (area 85 sq. m.), in Jesus and Irairie R.'s,

Quebec, Canada.

Isle Royal (40 m. long), in Lake Superior, Michigan,

Isle Verte, ir. in R. St. Lawrence, Quebec, Canada;

also & on same; cap, of Temicouata co., p. 3,470.

Isla, of Shoals, off Portsmouth, Maine, and New

Hainpshire, U.S.A.

Isleworth, \$\sigma x\$. on R. Thames, Middlesex, Eng., W.

Islington, \$\sigma x\$ or and \$\sigma it. to I London, p. 43,345.

Isleworth, \$\sigma x\$ on R. Thames, Middlesex, Eng., W.

Islington, \$\sigma x\$ or and \$\sigma it. to I London, p. 18,27,432; mdustri, and resident.

p. 37,43; industri, and resident.

Salip, summer **esor**, New York, U.S.A., p. 7,200; also
pars. in Oxford and Northants, Eng

Salip, on R. Danube, Besurabus fortfd, p. 37,500.

Samailia, e. on L. Timsah (Suez Canal centri, stn.), Ismailla, f. on L. Timsah (Suez Caual centri. sin.),
Lower Egypt, p. 4,000; also name given to Gondokoro, on K. Nile. [Nicene Creed was promulgated.
Ismid, f in Asia Minor, the anc. Nicaea, where the
Isola del Litt, f. in Caserta prov., Campania, Italy;
paper, cloth, and woollen mills; p. 7,100. [6,130.
Isola della Scala, iron wiss, f. ur. Vernas, Italy, p.
Isola Grossa, 12f. in Adnatic, oft Dalmatian coast
(27 m. by 3 m.), p. 13,100
Ispahan.—See Isfahan.)
Isolre, moustrif, on R. Couze, Puy-de-Dôme, France,
Issoudun, f. on the Théols dep. Indre, France; old
keep, often besieged; p. 15,000
Ispahan.—See Isfahan.)
Issyle, W. on R. Senne, subn. to Paris, France, p. 12,240.
Issyle, Kul, L. in Russn. Centri. Asia; alt. 4,476 ft.,
area 2,465 sq. m. drained by R. Chu
Istria, crown land, of the Cisiethan part of Austria-Hungary; area 1,213 sq. m., p. 330,000; includes

Istria, crown land, of the Cisienthan part of Austria-Hungary; area 1,013 st m., p. 330,000; includes several isls. in the Adriatic

Italy, Angdom of S. Europe, an extensive pen, Continental portin, and numerous isls. (largest Sardmia and Sicily). Total area 114,410 sq. iii. p. 34,705,007; cap. Rome (q.v.). Exports, sik, velvet, ofter oil, sulphur, fruit, wines, anchoves, etc.

Itasca, L. a source of Mississippi R., Minnesota, U.S.A., alt. 1,575 ft.

Iwater, Hants, Eng., flows (og. m.) to Southmupton Ithaca, or Thiaka, one of the Ionian Isls., Greece, area 37 sq. m., p. 13410; cff. t. Vatki: also t. on Cayuga L., New York, U.S.A., p. 1,70,000.

Itasche, l. on R. Stör, Holstein, Pruss., oldest t. in the prov.; good trade; p. 1,3124.

Transfer, 1 on A. 1805, 100 reals, 1 results and the prov.; good trade; p. 13,124.

Ivanovo-Voznesensk, cotton manuf. 1. of Middle Russia, govt. Vladunir, p. 55,000.

Ivica, Ivica, o. Iluisa, one of the Balearic Isls, in the Mediterranean, Spain, p. 23,425; cap. Ivica, or La Cluded (Fort) p. 4,86.

Ciudad (fort ), p. 7,480. Ivinghoe, mkt. 4. Bucks, Eng., p. 1,374.

Ivory Coast, French W. Africa, colony between Liberia and the Gold Coast; area 119,500 sq. sn., p. 1,500,000.

Ivrea, t. on the Dora Baltea, Italy, nr. Turin, p. 6,000.
Ivry-sur-Seine, vtt. on R. Seine, subn. to Paris, p. 30,240.
Ivrybridge, psr. in Devon, Eng., on R. Erme, ar.
Luelles, t. in prov. Brabant, Belgium, subn. to Brussels,

p. 60,000. p. co.coo. [12,000.]
Irmiquilipan, t. in Hidalgo State, Mexico, p. (dist.)
Ixtlahuaca, industri. t. of Mexico, 60 m. N.W. of the
cap., p. 14,200. [industrial; p. 27,27,
Ixtlan, t. in Oajaca State, Mexico; commercial and
lxworth, par. nr. Bury St. Edmunds, Suffolk, Eng.

p. 1,107. Zarod, or Izhevskoi, f. in Ural Mins., Russn. govi. Vyatka; gunmkg. and steel works; p.

Izieux, f. nr. St. Etienne, dep. Loire, France, p. 6,242. Izium, fort. f. on R. Donetz, govt. Kharkov, Russ.

Izinin, for, t. on the Court of Izvum.-(See Islum.)

Jabalpur, or Jubbulpore, div. in Centl. Prov., India, aren 18,688 q. m., p. 2,250,000; alvo dist. in same div., area 3,918 q. m., p. 500,000; cap. J. p. 76,400.

Jabary, K. on Brazilian and Peruvian frontier (450 m.), trib. of R. Maranon.

Jabea, est. 4. nr. Alicante, Spain, p. 6,480.
Jabok, R. Syra, affluent of R. Jordan (45 m.).
Jaca, 4. in Huesca prov., Spain, on Pyrenan high-rd.
to France, p. 5,460.

to France, p. 5,460.
Jackson, cotton fr. f. Hinds co., Mississippi, U.S.A.,
p. 31,262; also c. on Grand R., Jackson co., Michigan,
U.S.A., wagonenkg., p. 31,443; also iron-wkg. t. in
Jackson co., Ohio, U.S.A., p. 4,890; also university t.
in Madison; co., Teimesse, U.S.A., p. 16,200; also
vil. in Amador co., California, U.S.A., p. 16,200; also
vil. in Amador co., California, U.S.A., p. 16,200; also
Jaches, I. large tumber, cotton, and cigar output,
p. 57,000 imore than half colrd.); also d. in Morgan
co. Illinovi., U.S.A., collegrate, p. 17,240.
Jacobana, J. and Jacobana, C. in Morgan
co. Illinovi., U.S.A., collegrate, p. 17,240.
Jacobana, J. on S. cst., Hatt, p. 6,246.
Jacobana, J. on Riet R., Orange R. Col., S. Africa,
p. (dist.) 3,860.

p (dist) 3,865.

Jacobstadt, t. on R. Duna, Courland, Rues., p. 4,867.

Jacques-Cartier, R., Quebec, Canada (50 m), trib. of St. Lawrence.

Jade, or Jahde, eccuary of N sea, Oldenberg, Germany; fine harbr, and entrance to Pruss, naval pt. of Wilhelmshaven.

Withermstaven.

Jaen, Jiew S Spain, area 5.184 sq. m.; mines, agr., p. 515,000; cap. J., c. nr. Granada, p. 26,834

Jafarabad, cap. State of J. Kathawar, India, p. 4,827

Jaffa, or Jappa (the anc. Joppa), c. nr. Jerusalem, Palestine, oranges, rowing distr., p. 45,000

Jaffna, or Jaffnapatam, c. on W. est. of J. isl., N. Caulon, v. 24,500, p. 32,500

Ceylon, p. 34,500. [Jumna, p. 12,500. Jagadhri, L. in Amballa dist, Punjab, India, nr. R. Jagadin, L. in Ambana dist, Lunga, Jagadin, L. in Serva, nr. Morava R. p. 4,540 Jagerndorf, or Karnow, L. in govt. dist. same name, Austrian Silesia; textiles, p. 15,264.

Austran Silesa: textiles, p. 15,504. Jagganath.—(See Juggernaut.)
Jagispur, s. Shahabad dist., Itengal, India, p. 13,263. Jahanabad, s. m. Gay a. Bengal, India, p. 5,470. Jahangerabad, s. m. Bulandshar dist., N.W. Prov., Jahde.—(See Jade.) [India, p. 70,848. Jaicza, or Jaitze, auc. royal s. Bosnia on R. Verbas; old fort and pal., p. 5,000. Jaipur, or Jeypore, native state Ralputana, India; area 14.465 So.m., p. 2,500,000; cap. J. a great commerci.

14.465 Sq.m., p. 2,500,000; cap. J. a great commerci. centre, p. 150,000; also t. same name ut Vizagapatan dist., Madrins Pres., India, p. 4570.

Jalaibad, J. S. Cabul R., Afghanistan, p. 7,400; also two t.'s in N.W. Prov., India, one of the Shahiahampur

dist., p. 8,216; and one in Muzaffarnagar dist., p. 7,260

Jalapur, t. in Gujarat dist, Punjab, India, p. 13,200.
Jalaun, dist. Alihabad div., N.W. Prov., Iudia, area
1,480 sq. m., p. 400,750; also t. in same dist. (of wh.
Urai is hdqrs.), p. 10,000.
Jaleasr, t. Etah dist., N.W. Prov., India, nr. Muttra,
Jalisco, state of Mexico; well timbd., agr., nuning:
area 1,185 sq. m., pl.,1250,000; cap. Guadalajara,
Jallandhar, div. of Punjab, India, area 12,571 sq. m.,
p. 2,50,000; also dist. in the same div., N. of R.
Sutlej, area 1,322 sq. m., p. 790,000; cap. J., C.,

p. 52,500. Jalon, R. in Spain (280 m.), trib. of R. Ebro. Jalpalguri, dist. Kuch Behar div., Bengal, India; area a,864 sq. m., p. 581,750; cap. J., c.; p. 8420 into three counties, Middlesex, Surrey and Cornwall; area 4,207 sq. m., p. 831,381. Exports sugar, run, spices, coffee. Cap. Kingston, five harbri; sulfered

severely by carthquake and fire January 1907, nearly 2,000 lives lost. Also name of t. on Long Island, N.

2,000 hives lost. Also name of t. on Long Island, N. York, U.S.A.; p. 12,000.

James, Brit. stn. (forfid) at mth. of R. Gambia, N.W. James, Bay, S. part of lind-on Bay (lengthalt, 250 m.).

James, R. (or Fowhattan) Virginia, U.S.A., flows (420 m.) from Blue Ridge to Che-speake B. [U.S.A.]

James Fork, R. affit. of White R. (60 m.), Missouri, Jamestown, t. nr. Balloch, Dumbartonsh, Scotl., p. 2,200; also cap. of isl. of St. Helena, p. 1,050; also t. in S. Australia, p. 1,210; also dist. in James City co., Virginia, U.S.A., nr. nith. of J. R., where first Fing. perm. settlement was founded in 1607; also c. in Chautauqua co., New York, U.S.A., summer resort and mfig.; p. 3,1397.

and mfig.; p. 31,397.

Jamieson, i. in Wonnangatta dist., Victoria; p. 2,230.

Jamieson, i. in Wonnangatta dist., Victoria; p. 2,230.

Jaminu, or Jummoo, cap. of nat. State of J. in Kashmir, N. India, on R. Tavi, p. 34,360. Burnt down 1859, but since rebuilt. Jaminu State (apart from Kashmir)

but since rebuit. Jammu State (apart troin Kasmint) has a p. of 1,500,000.

Jamesville, t, in agr. reg., Rock co., Wisconsin, U.S.A., Jangipur, t. on Bhagirathi R., Murshidabad dist., Bengal, India, p. 10,465.

Janina, or Vanina, cup. vilayet same name, on L. Janina, Europn. Turkey, famous for embroidery wk.,

Janiuay, f. in Panay, Philippine Isls., fine woven

fabrics, p. 28,000.

Jan Jira, native st. Konkan div., Bombay, India, among the W. Ghats, area 324 sq. m. p. 86,400, ch t. (fortid.) Janjira. [the Arctic Oc. Jan-Mayen, ist. betwn. Spitzbergen and Iceland, in Jaora, nat. st. Malwa Agency, India, area 581 sq. m.,

Jan-Mayen, ist. betwn. Spitzbergen and Iceland, in Jaora, nat. st. Malwa Agency, India, area 581 sq. m., p. 120,000, cap. J. t., p. 22,000.

Japan, insular emp. of E. Asia, S. of Corea, China and As. Russia; consists of Hondo, Kiu-su, Shikoku, Yesso, and numerous smlr. Isls; tot. area 179,667 sq. m. Produces rice, silk, cotton, tobacco, tea, hemp; much mineral wealth, many thriving industries, great commercl. and polutical enterprise, mountainous (volcanic), p. 52 mill, cap. Tokio, (9 v.).

Japan, Sea of, portion of Pacific Oc. running between Corea, As. Russia, and Japan.

Japara, fort. c., cap. prov. same name, N. cst. Java, Japara, F. rising in the Andes, of Colombia, S. America, and flowing (1,200 m.) through Ecuador and Brazil to R. Amazon.

Jardine, R. of N. Queensland, flowing (23 m.) to G. of Jarkent, dist. L. of Russ., Cen. Asia, prov. Semirjechensk, tr. with China, p. 18,500.

Jardine, R., of N. Queensland, flowing (23 m.) to G. of Sarkent, dist. L. of Russ., Cen. Asia, prov. Semirjechensk, tr. with China, p. 18,500.

Jardine, R., of N. Queensland, flowing (25 m.) to G. of Sarkent, dist. L. of Russ., Cen. Asia, prov. Semirjechensk, tr. with China, p. 18,500.

Jardine, R., of N. Queensland, flowing (25 m.) to G. of Sarkent, dist. L. of Russ., Cen. Asia, prov. Semirjechensk, tr. with China, p. 18,500.

Jardine, R., of N. Queensland, flowing (1,500 m.) through Ecuador 
Jaroslav, or Jaroslaw, mitg. t. in cancia, Austria, or. R. San; garrison, p. 24,100.

Jarrow, bor. on R. Tyne, co. Durham, Eng., shipbldg. Venerable Bede born here; p. 33,732.

Jassy, t. in Roumania, former cap. Moldavia, in vineyd, dist, active tr. and manufa, p. 80,500; area of J. dist, 1,207 sq. in., p. 29,050.

Jazz Bereny, manuf. f. nr. Pesth, Hungary, p. 23,400.

Jath, nat. sta. Deccan div. Bombay, India; area (with Khananur) oro so. in. p. 72,500, cap. J., t., 92 in.A.

Khanapur) 979 sq. m., p. 72,500, cap. J., t., 92 ma S.E. Satara, p. 5,430. [p. 12,000. Jativa, t. prov. Valencia, Spain, mart f. agr. prod.,

Jauer, A on the Roaring Niesse, Silesia prov., Pruss.

famous for sausages, p. 13,500.
Jauga, t. in Junin dep., Central Peru, p. 15,000.
Jaupur, att. Benares div., N.W. Prov., India; area
1,550 sq. m., p. 1,202,750, cap. J., on R. Gumti, p. India: area

Java, isl. (Dutch poss.) of the Malay Arch; area 50,300 sq. m. p. 30,250,000, mtns. (many volcanic); prod rice, sugar, cotton, spices, coffee, cap. Batavia (g.v.).

Javana, 4, co. N. cst., Java, p. 20, 540.

Java Sea, part of the Pacific Oc. between N. cst. Java,
Borneo, and Sumatra.

Jawad, t. in Gwalior, Centl. India, nr. Neemuch, p.

Jawadjur, t. on R. Ganges, Saharanpur dist., N.W.

Prov. India, p. 15,564.

Jawhar, nat. stv. Konkan div., Bombay, India, area
534 sq. m., p. 47,500, cap. J., t. 50 m. N.E. of Thana,

Jaworow, trdg. and mftg. t. in Galicia, Austria, p. Jaworzno, mkt. pt. in mining dist, of Galicia, nr.

Cracow, p. 9,854.

Jaxartes, or Syr Daria, R. of Asiatic Russ., flowing 1,450 m. from Thian Shan mtns. to Sea of Aral. I.450 in, from 1 man snan mins, to sea of Aral, Jaxt, or Jagest R. of Wurtemberg (80 m.), trib, of R. Neckar, Jeanette, bor, in nat. gas. regn., Westmorland co. Jebel-Akdar, mtn. S.W. of Muscat, Arabia, alt. 6,017 ft.

Jebel-Hauran, high table land of Syria (alt. 6,000 ft.), nr. S. of Gahlee [6.760 ft.]

nr. S. of Galdee
[6,760 ft.
] febel-Serbal, mm. nr. Horeb, Sman penin., Syria, alt
Jebrail, t. m Russii. Transcaucasia, gt. tr. with Persia,
p. 17,370.
[woollen mills, p. 275, Jedburgh, co. t. of Roxburgh, Scotl., on R. Jed.
Jedo, or Yeddo, old name of Tokio, the Japanese cap.
Jeddore, fishery t. on cst. Nova Scotia, inr. Halifax, p.
2,237.
[p. 2,65]

2,237
[D. 262]
[Eddersdorf, inclustri, t. Flousdorf dist, Lower Austra, Jefferson, c. of Jefferson e.o., Wisconsin, U.S.A. p. 4,100, also t, oil big Cypress Bayou, Texas, U.S.A. p. 3,874
[U.S.A., good tr., p. 12,000]
[Efferson City, on the Missouri R., Cole co., Missouri, Jeffersonville, mftg. t. in Clark co., Indiana, U.S.A., on R. Ohio, at the hd. of the faile, p. 12,000
[Jehlam, 4st. in Rawaipindi div. of the Punjab, India; area 3,205 sq. m., p. 590,500; cap. J., c. [p. 21,500] on J. R., most W. of the five Rs. of the Punjab, flowing (450 m.) from Kashmir to Join the Chenab.

Chenab.

runjan, nowing (450 m.) from Kashmir to Join the Chenab.

Jehoshaphat, famous vaelley nr Mt. of Olives, PalesJeisk, z. in N. Caucasa, Russ., in Jessk B., Sea of Azof;
esynts corn, linseed, etc., p. 21,603.

Jekyl Isl., off S. cst. Georgia, U.S. A. nr. Brunswick;
separated from the mainland by Jekyl Sound,
Jeialabad. (5re Jaialabad.) Helgum, p. 12,272.

Jemappes, industri. t. on the R. Haine, prov. Hainault,
Jemtland, or Ostersund, Swedish Jøroz. on Norwegfan
bdr., arra 20,123 Sq. m., p. 94,670; cap. Ostersund,
Jena, t. on R. Sasle, Saxo-Weimar, Germany; famous
university, p. 23,622. [Timbucton, p. abt. 10,000.

Jerba, or Gerba, fizl. (22 m. long) in G. of Cabes,
Tunis, p. 5,124.

Jerezide, psp. of S. W. Haiti, good tr., p. 10,473.

Jerez de la Frontera, or Keres, t. nr. Cadiz, Anda
lusia, Spain, noted for sherry, p. (decreasing) 54,000.

Jerez de los Caballeros, t. nr. Bajados, Spain, p.
8,546. Roman and Byzantine remains,
Jericho, now Richa, val. in Jordan Valley, Palestinc,
Jerilderie, t. in N.S. W., on the Edward R., nr. the
Victorian border, p. 1,240.

Victorian border, p. 1,240.

Jermyn, bor., Penn., U.S.A. nr. Bald Mtn., Lacka-

Jermyn, 607., Fenn., U.S.A. Br. Baid Mth., Lacka-wanua, p., 7,600.

Jerry's Plains, post t. in N.S.W., 144 m. N. Sydney, Jersey, largest of Chainel Isls. belonging to Britain, 13 in. W. of French est., area 45 50, m., p. 53,500.

Prod. potatoes fruit, cattle, etc., cap. St. Helier.

Jersey City, spt. t. cap. Hudson co., New Jersey, U.S.A., opp. New York on Hudson R., p. 267,799.

Inpl. commerce and manuf.

Jerseyville, t. in Jersey co., Illinois, U.S.A., p. 3,145.
Jerusalem, c. of Palestine, 33 m. S.E. of Jaffa, 2,660
ft. above sea-level, among intus, between Dead S, and Mediterr. The "Holy City" or "City of Peace"

of the Jews; anciently called "Jebus," many times besieged and captured. Now chf. t. of a Turkish sanja, p. (nearly) 50 000.

Jesmond, N. suburb of Newcastle-on-Tyne, Eng., p. Jessor, dist. Bengal, India, area 2,025 sq. m., p. 7,600,000. Cap. Jessor t. (or Kasoar) on R. Bhairab;

Jesus Ial. (See Iale Jesus.)
Jesus Ial. (See Iale Jesus.)
Jever or Jeuer, A. nr. Oldenburg, Germany, p. 5,256.
Jewar, A. in Bulandshar dist. N.W. Prov., India, p.

6.373.

Jeypore, (See Jaipur.)

Jeypore, (See Jaipur.)

Jhalawar, nat. st. Rajputana, İndia, area 2,604 sq. m.,

Jhang, dirt. Mooltan div. Punjab, area 5,702 sq. m.,

p. 305,500. Cap. J., c., p. (with Maghiana) 22,115.

Jhansi, div. of N.W. Prov. India; area 4,948 sq. m.,

p. 1,000,000; also dist. same name, area 1,567 sq. m.,

p. 33,500; Cap. Jhansi-Naobad, vil. nr. Gwalior.

Jiddah, or Djiddah, spt. t. of Arabia, on El-Hejaz, nr.

Mecca. p. 18,000.

Mecca, p. 18,000. Jimena de la Frontera, / nr. Cadiz, Spain, p. 8,560. Jind, nat. x. of the Punyab, India, E. of R. Sutlej, p. 290,000, aren 1,232 St. m.; cap. J., t., p. 7,248. Jizakh, r. in Russ. Cent. Asia, prov. Samarkand,

Jind, nat. st. of the Punjan, India, E. of R. Suttlej, p. 39,000, area 1,332 Sq. in.; cap. j., t. p. p. 2,484. Jizakh, f. in Russ. Cent. Asia, prov. Samarkand, good tr., p. 16,560. Joachimsthal, f. nr. Carlsbad, Bohemia, mining centre, Jodhpur, nat. st. Rajputana, India, N. of Cutch, area 37,000 sq. m., p. 2,500,000. Cap. J., c. with many fine bidgs, p. 60,500. Jogiogarta, Dutch resud. in Java; area 2,200 sq. m., p. 2,500,000. Cap. J., c. with many fine bidgs, p. 60,500. Jogiogarta, Dutch resud. in Java; area 2,200 sq. m., cap. J. c., connected with Batava by train; citadel, with palace; p. 60,000. Johanna, std. of the C. moro grp. in Mozambique Channel [25 m. by 18 m.], p. 12,762. Johanneburg, f. in the Transvaal Col., Brit. S. Africa, — Witwatersrand goldifids, p. 195,000. Johanneburg, f. in the Transvaal Col., Brit. S. Africa, — Witwatersrand goldifids, p. 195,000. Johnson C. in Washington co., Tunnessee, U.S. A. johnsown, fishing vid. co. Kincardino, Scotl. nr. Montrose, p. 1,120. Johnson C. in Washington co., Tunnessee, U.S. A., p. 4,860; also name of several ts. in various parts of the U.S. A. johnsown, glove mick, c. Fulton co., New York, U.S. A., p. 12,473; also hor. on Conennaugh R., Cambria Co., Penni, U.S. A., immense steel wks., p. 55,482. Johnsown, glove mick, c. Fulton co., New York, U.S. A., p. 12,473; also hor. on Conennaugh R., Cambria Co., Penni, U.S. A., immense steel wks., p. 55,482. Johnsown, glove mick, c. Fulton co., New York, U.S. A., p. 12,473; also hor. on Conennaugh R., Cambria Collegny, c. on Karony and Late Princephery, p. 3,503. Glober, c. in William College, p. 10, p.

Jonzac, /, on R. Seugne, Charente-Inférieure, France, Jopin City, in lead mining regu. of Jasper co, Missouri, U.S.A., p. 32,073.

Joppa. See Jaffa.

Jordan R, tamous in Bible histy and one of the most remarkable streams in the world. Flowing S from Anti-Lebanon (120 m.) along a sinuous course mostly below sea-level to the Dead Sea; its rapidity and variant depth render it unnavigable, and no t of any importee, has ever been built on its banks. orullo, volcano in Michoacan st., Mexico; alt.

any importee, has ever been huilt on its banks. Jorullo, volcano in Michoacan st., Mexico; alt. 4.565 ft. Josephstadt (formerly Pless), £. and artilly. depôr in Königinhof govt., N.E. Bohemia, Austria, p. 6.500. Josefekan, *prov. Persa, area 1.000 sq. iii., ch. t. Mamimeh, in famous carpet mkg. dist. Joubert, vd. Transvala col., Brit. S. Africa, p. 1.740. Joux, £., nr. the Joura, canton Vaud, Switzerl, (length 5 m.), drained by R. Orde. Joyce's Country, mtns. dist. co. Galway, Ireland, Juan de Fuca Strait, betwn. Vancouver Isl. and Washington Terr., U.S.A.

Juan Fernandez, rocky isl. belonging to Chili, in S-Pacific O.; area 38 sq. m. Famous as solitary res. Alex. Selkirk (Robinson Crusoe), 1704-9.

Alex. Selkirk (Röbinson Crusoe), 1704-0.

Juba, or Roques R., East Africa, flows to Indian O.,
nr. the Equator.

Inr. Valencia.

Jubulpore. [See Jahalpur.]

Inr. Valencia.

Jucar R., of E. Span, flowing 250 m. to Mediterranean

Juchipula, 2 in Mexico, nr. Guadalajara, p. 7,954.

Judea, S. div. of Palestine in the Roman Period, W.
of the Jordan and Dead S. and S. of Samaria.

Judenberg, 4 on R. Mur. Styria, Austria, p. 4,263

Juggernaut, or Jaganath (also called Puri), 1916

Orissa, Bengal, India, fainous for its temple, and

festival of the heathen god Vishinu and his monster

Car: p. 80,000.

car; p. 89,000.

Jujuy, prov. in the Argentine Repub., area 18,977 sq. m. p. 98,750; cap. Jujuy, c. on the Rio Grande,

Julian Alps, the easternmost range in Venetia, Carmthus, Carmola, and Görz-Gradiska; highest pk. Terglou, 9,994 ft. Parewell, p. 2,200. [Farewell, p. 2,200. ]
Illianshaab, 57m. in Greenland, 110 m. N.W. of C. Julich, 2. on R. Ruhr, Rremish Pruss, nr. Aachen, Juliundur. (See Jalandhar.)
Jumetz, adustri. and mining £ in Belgumi, nr.

Charleron, p. 24,30%.
Jumilla, mig. t. m Spain, nr. Marcia. p. 14,682.
Jumil R. (860 m.), chf. trib. of R. Ganges, rises in
the Himalayas and flows past Delhi and Agra to Allahabad. Junagarh, native state Gujarat div. Bomhay, India;

Junction City, on Kansas R., Davis Co., Kansas, p. 4,504. [inent in Alaska, p. 2,800. Juneau City (formerly Harrisburg), mning settle-Junee, township N.S.W., nr. Cootamundra, p.!(dist.)

2,327. Buntzlau, mftg. f. on R. Iser, Bohema, II 3,071 ft. [I 3,071 ft. ]

11. 14.140.

Jungfrau Mtn. of the Bernese Alps, Switz, alt, Jungfrau Mtn. of the Bernese Alps, Switz, alt, Juniata, R., Pennsylvania, U.S. A., flows (140 m.) to the Susquehatima at Petersburg; picturesque scenery. Junin, interior dep. Peru, traversed by the Andes; area 37.745 vg in., p. 400,500; chf. I. Jauja, p. 15.000. Junin, interior dep. Peru, traversed by the Andes; area 37.745 vg in., p. 262,500. Mainy vineyds. Cap. Lonsies vg, m. p. 262,500. Mainy vineyds. Cap. Lonsies Saulnier; also isl. off. W. coast. Argyll, Scoll, area 140 vg. iv., p. 785. Sound of J. separates the isls. of J. and I. bay. of J. and Islay.

urjura, mtn. chn. u. Algeria, N. Africa.

urua. (See Amazon.) Jussay, t. in prov. Haute Saone, France, p. 3,123 Jutecalpa, t. in Olancho dep , Honduras Repub.,

Jucearpa, 2. in Olancity dep., riomarks Kepub., Juterbock (or Jüterbogk), industri. 2. nr. Potsdam, Pruss.; Swedish victory, 1654; p. 7,546. Jutland, **penn. of Denmark, washed by N. Sen, Skager Rack, and Cattegat; area 9,762 sq. ni.; flat, low-lyng and infertile; but now being reclaimed

Jyhoon, R., Asia Minor, rising in Mt. Tauras, and flowing to G. of Iskanderun.

Kaaden, t. on R. Eger, ur. Prague, Bohemia; gloves and beetroot sugar manuf.; p. 6,541.

and beetroot sugar manuf; p. 6,541.

Kaagoe, or Kaako, sk. of Norway, m Arctic O, N. of I.yugen, Front.

[Senegal R. and Sahara.

Kaarta, state of Segu. French W. Airica, between Kabadian, dist. of S. Bokhara, on the Amu R.; also chief t. of same on R. Kafrhagan (affit. of the Amu).

Kabansk, t. in Transbaikalia, E. Siberia; thriving Russn, tr. centre; p. 7,806.

Kabardia, terr. in N. Caucasia, Russ., area 3,800 sq. m.; mtns. forest. and agr. p. 7,806.

Kabardia, terr. in N. Caucasia, Russ., area 3,800 50. m.; intns., forest, and agr.; p. 7,500.

Kabinda, t. in Portuguese W. Africa, on coast of Kabinda dist. N. of Congo estnary.

Kabul, cap. of K. prov. and of Afghanistan, on Kabul R., S. of the Hudu Kush, 6,000 ft. above sea; estm., p. 140,000. [Indus in the Punjaub, E. of Peshawar.

Kabul R. (270 m), flowing through Afghanistan to the

Kadi, f. in Baroda state, India; industri, and commrci.;

p. 17,540.

Kadiak Ial., the largest ist. (90 m. long) of Western Alaska in the N. Pacific; fur trdg. and extensive salmon fishg. and canning. Chf. settlement, St. Paul, on Chiniak B.; p. 1,580 (ome-third Eskimos).

Kadina, t. nr. Wallaroo, S. Australia, p. 1,786.

Kaffa, fort. Russian t. in the Crimes, p. 1,2000; also E. African state (sometimes called Gomaraland) S. of Abyssinia, cap. Bonga.

Kaffraria. extensive dist. of Cape Colony, S. Africa,

Kaffraria, extensive dist. of Cape Colony, S. Africa, comprising Griqualand East, Tempoland, Transkei, and Pondoland; area 18,310 sq. m.; p. 700,000 (12,000 whites).

wantes; Kafiristan, tract of country between Chitral and Afghan terr., S. of the Hindu Kush, peopled by (abt. 69,000) Kafiirs, mainly of the Siali Posh (or black-robed) tribe. Kagalnik, t. in prov. of the Don Cossacks, S.E. Russia, nr. Rostov; mpt. fairs, and trade in horses, cattle, and fab. v. 15.000.

nr. Rostov; impt. fairs, and trade in horses, cattle, and fish; p. 15,000.

Kagoahima, 59t. at S. end of Kiu-siu ish., Japan; gt. Kahlur, or Bilaspur, native ttate India, in the Punjab, on the lower slopes of the Himalayax; area 451 sq. m., p. 5,840; cap. Bilaspur, on R. Sutler, Kalapol, coast d. nr. Christchurch, New Zealand, p. Kal-Jong, c. on Hoang Hok, Ho-nan, China, one of the most anc. cities in the empire; p. 100,000.

Kalkorua, & on coast of New Zealand (S. isl.), xoo m. N.E. of Christchurch; p. (dist) 1,740.

Kalra, or Kheda, dist. of the Gujarat div., Brit. India, area 1,609 sq. m., p. (greatly decreased by famine) 715,500; cap. Kheda, t. 20 m. N.W. of Alunedabad, p. 10,540.

Kaiserlautern, mftg. t. nr. Mannheim, Bavaria; gt. industri. activity; p. 54,480. [of R. Elbe, opend. 1895.
Kaiser Wilhelm Canal, connecting Kiel with the mth.

Kaiser Wilhelm Isla., sml. group in the Antarctic, belonging to Graham Land.

Kaiser Wilhelm's Land, German protect. New Guinea,

Raiser Wilhelm's Land, German protect. New Gunea, area 72,000 sq. m, p. 120,000

Raitangata, £. nr. Dunedim. N. Zenland, p. (dist.) 2,645.

Raisch, Cossack £. on R. Don, SE. Russa; gt. tr. res.; p. (much increased by visitors in summer) 9,680.

Raisfat, £. on R. Danulæ, opp. Widin, Roumanna, p. 4,722

Raiahandi, or Karond, feudal state Cent. Prov., India; area 9,745 sq. m. p. 938,400.

Raiahan' Desert, gt. infertile tract (alt. 3,700 ft) of S. Centl. Africa, between the Orange R. and the Zambes; area 200,000 sq. m.; inhabited chefy by Bushmen and mainty comprised in Bechuanaland Protectorate.

rotectorate.

Kalahasti, t. in N. Arcot dist., Madras Pres., India, Kalahasti, t. un N. Arcot dist., Madras Pres., India, p. 10, 1.0. [undustry, olue on lexport: p. 15,400.
Kalamata, t. in the Morea, Greece, nr. 5,9arta, silk Kalamatoo, cat. K. co. on K. R. (200 m. long), Michigan, U.S.A.; manuf., college: p. 39,437.
Kalamito Bay, Black Sea, W. cst. Crimes, Ralat, cat., Baluchistan; fortifil: alt. 6,780 ft.: p. 8,250.
Kalbe, t. on R. Saale, Prussn. Saxony, p. 0,460.
Kaldenkirchen, t. nr. Kempsen, Khensh Prus., p. 3,760.
Kale Water, R. co. Roxburgh, Scotl. (20 m.) trib. of R.
Teviot.

maie water, A. Co. Koxburgh, Scotl. (20 m) trib. of R. Teviot.
Teviot. Kaigan, fort. L in Pechili, China, nr. the Great Wall;
Kalgoorlie, L, nr. Coolgardie, in gold-field dath, W. Australia; p. (dist.) 15,000.
Kainsz, govt. Russn. Poland., adngr. Prassia; agr.,
cattle breedg.; ch. L K., in the valley of the Prosna; limen factories; n. 22.

inen factories; p. 22,600.

Kalitvenzkaya, Cossack £ in prov. of the Don, Russia; stone quarnes; p. 21,470.

Kalk, £ in the Rhine prov., Prussia, adjing Cologne;

tron and chem. wks.; p. 23,753.

Kalmar, fort. c. on the Baltic cst. of K. dist., Sweden,

Kalmar, tort. c. on the Battic CSt. of N. uist., Swedien, 1. ... Indi isl., p. 12, 384,ed S., Arabia, nr. Loheia. Kalmyk, or Kalmick Steppe, reservata. of Kalmucks in W. Caucasia; area 36,900 sq. m., p. over 100,000; fishery and cattle-rearing. India, p. 11,1428. Kalna, c. on Bhagirath, R., Bardwa dist., Bengal, Kalna, c. calper, migr., and tr. c. m. Jalaum dist., N.W. Prov., India on R. Jumna, p. 14,600.

Kaluga, prov. Middle Russ.; minl. and industri., area 11,942 sq. m., p. 2,000,000.; ch. t., K., on R. Oka, p. 60,430. [salt wks.; p. 8,462 Kalusz, f. on R. Lomnicza, Galicia, Austria; large Kalyan, spf. Thana dist., Bombay Pres., India; gd.

Rayan, 59:. Inana tust., Bombay Fres., Intus; gut. tr.; p. 23,574.

Kama, R. Russia (1,400 m.) trib. of R. Volga, which it joins S. of Kazas.

Kamalonbo, R. of Centl. Africa, trib. of the Congo; also native t. on banks of same, p. 6,000.

Kaman, J. in Bhartpur state, Rajputana, India, nr. Mutter, p. 1,1060.

Kaman, t. in Bhartpur state, Kajputana, anua, nr. Mutra, p. 14,260.
Kambar, t. in Upper Sindh, India, p. 6,540.
Kambaktaa, (See Kamachatka),
Kamchatkaa, (See Kamachatka),
Kamenskaya, t. on N. Donets R., Don Prov., Russia, in colliery dist.; p. 2,560.
Kamenz, t. on Bick Eister R., nr. Dresden, Saxony, Kamerun. (See Cameroon.)
Kamieniec, or Kameneta Podolsk, t. in Podolia govt. of Russ., nr. Austn. frontier; thrving indust.; p. 28,000.

p. 38.970. [Russ., p. 17,845. Kamishin, mftg. t. on R. Volga, Saratov govt., Kamloops, tr. fort Brit. Columbia, on Penny's R., p. (dust.) 2,860.

(dist.) 2,800.

Kamnitz, f. nr. Leitmeritz, Bohemia, p. 4,942.

Kamouraska, f. cap. K. co., Quebec, Canada. on R. St. Lawrence, p. 2,104.

Kampen, mftg. f. on R. Yssel, Holland, Overyssel.

Kampen, mftg. f. on R. Yssel, Holland, Overyssel.

Kamrup, disf. in Brahmaputra vall. div., Assan, Brit. India; area 3,660 sq. m., p. 589,500 (decreased by fever); cap. Gauhatt.

Kamschattka, penss. on N.E. Asia, pt. of Russ., govt. Primorsk; area 45,667 sq. m.; unts., with volcances

Ramischatta, penili, on N.E. Asia, pt. of Russ., gov. Primorsk; area 455,637 sq. m.; intts, with volcanoes (Kluchevskaia, alt. 16,512 ft.); much mineral wealth, fishertes on coast, climate cold, wet and foggy; cap. Petropauloveski, on E. cst., pood roadstead; p. 6,243. Kamthl, or Kamptl, t. m. Nagpur dist., Centl. Prov. India, on R. Kanhan, nr. Nagpur c., hdqrs. of mil.

india, on R. Rainan, in Nagpur C., nogas of midst and busy tr. cent., p. 45,400., Namyshin, dist. tr. L. on R. Volga, Saratoff govt., Russia, p. 19,408. [In: Yokoluma, p. 4,227. Kanagania, ireaty pt. of Japan on Tokio Bay, Japan, Kanara, or Canara, N. and S., dixts. of Brit. India. N. K. is in Bombay (Konkan div.), area 3,300 sq. m., 15,5000; dist. hdgrs. Karwar. S. K. is attached to Madras, and has its hdgrs. at Mangalore, area

3,902 sq. m., p. (increasing) 1,200,000.

Kanauj, anc. c. nr. R. Ganges, Farukhabad dist.,
India, N.W. Prov; shrine of Rajah Japal and mag. mosque, p. 17,400.

mosque, p. 17,400.

Kanazawa, f., prov. Kaga, Nippon isl., Japan;
thrivg. ind. and gt. tr., p. 112,000.

Kandahar, prov. S. Afghanistan, mins, p. over 15
imil.; cap. K. c. (largest in A. and former st. of gov.).
alt. 3,400 ft., 370 m. from Herat on N.W., p. 30,000.

Kandalaksha, vtl. on G. of K., Finland, N. Russ.,

Kandalaksha, vt. on U. or A., America, p. 4,644.
Kandy, t. nr. centre of Ceylon, very beautiful, historical, and prosperous; many fine temples and tombs of K. kings, fornerly the cap., p. 27,400.
Infertile dist., p. 378,644, Br.t. auth. established, 1815.
Kane, bor., McKeauce co., Peun, U.S.A., nat. gas regn., p. 8,640.
Kaneff, or Kanneff, t. on the R. Dnieper, Kieff govt., Kanem, drst of Soudan, bording, on L. Chad.
Kangaroo Isl., off cst. of S. Austraha, area 1,970 sq. m. p. 4,600.

Kangovar, sm. dist. Persia, betwn. Kermanshah and Hamadan, chf. t. K., p. 3,200. Kangra, dist., Jullundur div., Punjab, Brit. India,

ARIGER, arst., juliundur div., l'unjab, Brit. India, area 9,5% sq. m., p. 704,68; tea cultvin.; cap. K. (or Nagarkot), p. 5,340.
Kanisa, industri. t. on R. Theiss, co. Bacs, Hungary, p. 14,360; also Nagy (or Great) Kanisa, mkt. t. in the Trans-Danubn. co. of Zala, Hungary, p. 21,200.
Kankakee R., Indiana and Illinos, U.S.A., trib. (230 m.) of Des Plaines R.; also t. on same in Illinois, Kanyil. (See Kanami)

[230 m.] of Des Plaines R.; also t. on same in Illinois, Kannij. (See Kanauj.)

Kano, t. of Sokoto, Soudan; cloth-dyeing; p. 30,000.

Kansas, state W. of Missouri R., U.S.A., area 82,080 sq. m., called the "Sunflower State"; cattle-raising and fattening, p. 1,700,000; cap. Topeka.

Kansas City, Jackson co., Missouri, U.S.A.; great live-stock mart, p. 250,000; adjoins Kansas City,

Wyandotte co., Kansas, meat-packing centre, p.

Wyandotte co., Kansas, meat-packing centre, p. 82, 331.

[D. 8,646.

Kansk, Russ. f. Yeniscisić, E. Siberia, on the Kan R.,

Kan-Su, most N. W. *prov. China, area 260, 388 sq. m.,

p. 4,500,000; cap. Lan-Tchou.

Kanturk, mkt. f. in co. Cork, Ireland, p. 1,850.

Kannim, c. of Little Tibert, on the Upper Sutlej R.,

p. (est.) 80,000.

Kapadwanj, fort. f. Kaira dist., Bombay Pres., India; 1840,000.

Kapadwanj, fort. f. Kaira dist., Bombay Pres., India; 1840,000.

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Kapadwanj, fort. f. Kaira dist., Bombay Pres., India; 1840,000.

Kapadwanj, fort. f. Kaira dist., Bombay Pres., India; 280,000.

Karachie, old f. in govt. oriel, Russ.; hemp factories and oilworks, p. 16,400.

Karachie, or Kurrachee, 59t. c. Sindh prov., Bombay, Brit. India, on the Indus delta; thriving trade, p. 120,000; cap. K. dist., area 14,188 cd., m., p. 674,000.

Karak, 15tet (15 m. round) in Persian G., free haven.

Karakorum Mins., separating E. Turkestan from Kashuir, highest pk. Dapsang (28,278 ft.); also name of two anc. cities in Mongolia.

Kara Sea, E. of Nova Zembla in Arctic Ocean.

Kara Sea, E. of Nova Zembla in Arctic Ocean.
Karategin, country in Panir plateau, Asia, area
8,00 sq. m., p. (about) noo,000; also R. Central Asia,
trib. of Upper Amu Daria.
Karauli, or Kerowee, nat. state Rajputana agency,

Raraull, or Kerowee, nat. state Rajputana agency, India, area 1,229 sq. m., p. 157,049; cap. K., t., p. 24,000. Raren-Nl, country of the Red Karen, feudatory to Raren-Nl, country of the Red Karen, feudatory to Raren-Nl, country of the Red Karen, feudatory to Rarbadt, 2. on R. K., Croatia, nr. Fgypt, the anc. Thebes, numed Temples.

Rarnal, stat. in Delhi dik., t. mr. Junina R., cotton manuf., hone fairs i p. 22,500.

Rarnul, or Karnool, stat. in Madras Pres., India, area 7,514 sq. m., p. 87,649; cap. K., t. at confluence of Tungabhadra and Hundri R., p. 26,745.

Rarolinenthal, A. suburban to Prague, Bohemia, Austria; manuf., p. 23,086.

[Colony, S. Africa. Karoos, extensive plaum helween mtn. ranges, Cape Rara, foct. c. on the Arpa-Tchai, Asiatuc Russa, taken from the Turks, p. 20,540.

Kara, fort. c. on the Arpa-Tchai, Asiatic Kussia, taken from the Turks, p. 20.540.

Kasanlik, c. nr. Adrianople, E. Roumelia, captured, at the surrender of the Shipka Pass in 1878, from the Turks; famous for attar of roses; p. (about) 20.000.

Kaschau, or Kositze, c. Hungary, on the Hornad R.; commercial centro, Cothic cathedral; p. 28.657.

Kasban, 2702, Persia, between Isfahan and Kum; cap. c. in the plains, exporting silk and rosewater, p. 30,000.

Kashgar, commercial c. of Chinese Turkestan, p. 20.000. Rangar, commercial c. of Chinese Turkestan, p. 80,000; also R. flowing 500 m. in F. Turkestan to the Yarkand

Kashmir, Indian nat. state. (See Cashmere.) Kasia, famous vil. nr. Garakhpur, India: Buddhistic remains.

remains.

Rasimov, t. in govt. Kazan, Russia, p. 16,432.

Kassala, t. nr. Atbara R., Soudan, p. 7,200.

Kassamul, or Costombone, t. on Kara-Su, Asia

Minor, cap. of Turkish vilayet same name; great

commercial centre, p. 40,000.

Ratahdia, mts. nr. Augusta, Maine, U.S.A., alt.

Katanga, mining dst. S. Centrl, Africa, betwn.

Kamalombo and Luapata R. S.

Katha, dst. Upper Buma, rich in minerals; area 7,000

q. m., p. 180,000; hdqrs. of dist.; cap. Katha; p.

ithiawar, or Kattywar, penim. within the Gujarat div. of Bombay, India; area 23,300 sq. m., p. 3,000,000; suffered in famme of 1890-1900.

Kathlamba, or Quathlamba, mtm. range in Cape Col., S. Africa, called also the Drakeusburgs (p. v.) [2,760.

Katoomba, mining t. nr. Sydney, N.S.W., p. (of dist.) Katrine, Loch, S. W. Perthsh., Scott on R. Teith, 8 m. long; principal source of Glasgow water supply; beautiful scenery.

Katowitz, L. in Prussia, prov. Silesie; ironwks. and colly, dist; p. 35,500.

Kaukauna, industri. t. nr. Lake Winnebago, Wisconsin, U.S.A., p. 7,694.

Kaunai, one of the Sandwich Isls,, area 243 sq. m., Essey, Kaunai, one of the Sandwich Isls, area 243 sq. m., Cavalla, t. in Turkey, on B. of Kavala; great tobacco preparing and experting centre; p. 25,000

Kawakawa, mining t. New Zealand, (nth. isl.) on Hokianga R., p. 2.780. Kayalpatnam, t. nr. Tuticorin, Madras Pres. India p. Kazan, 2002. Middle Russia, at confl. of Volga and

Kama; area 24,60r sq. m., p. 2,750,000; mainly agr., cap. K. (p. 140,000), impt. ir. centre for E. Russ., Turkestan, Bokhara, and Persia; soap and candle 120,000

Kazvin, f. in Irak-Ajemi, Persia; good transit tr.; p. Keady, f. nr. Armagh, Ireland, p. 1540. [D. 1864, V. A. Kearney, industri. vii. Buffai co., Nebraska, U.S.A., Kearnege, mig. f. nr. Bolton, Lancs, Eng., p. 9,500. Keeskemet, thriving industri. f. nr. Budapesth,

Recakemet, thriving industri, c. nr. Budapesin, Hungary, p. 62,000.

Reczel, vii. W. of Pesth, Hungary, p. 6426.

Kedarnath, place of pilgrimage, Garwhal dist., India; famous temple.

Redirl, prov. in Java on S. coast, p. nearly; ncoo,000; Kedoe, or Kedu, Dutchisettlement nr. centre of Java, cap, Megalung.

Keele, par. nr. Newcastle-under-Lyne, Staffs, Eng., Keeling Islas, called also Coxos and Cocos K. Isls., coral grp. in Indian Oc., included in Straits Settlements rove.

ments gort.

Keen, Mt., nr. Ballater, in co.'s Forfar and Aberdeen,

ments govt.

Keen, Mt., nr. Ballater, in co.'s Forfar and Aberdeen,
Scotl., slit. 3-07 ft.

[U.S.A., p. 16,484.

Keene, mig. c. in Chester co., New Hamphire,
Keeper, min. in co. Tipperary, nr. Newport, Ireland,
all. 2,265 ft.

Keesevelle, vil. on Au Sable R., Clinton co., New
Keewatin, dist. Canada, N. of Manitoba, area 445,000
sq. m., chuefy "barren lands."

Kewgorth, t. on R. Soar, nr. Loughborough
Leicestersh., Eng., p. 2,764.

Kehl, t. on R. Rhme, Baden, opp. Strasburg, p. 3,500.

Keighley, mitg. t. nr. Bradford, W.R. Yorks, Eng.,
p. 4,3490.

Kells, mt. t. on R. Blackwater, co. Meath, Ireland,
Kelly's Isle, in L. Erne, Ohio, U.S.A.

Kelso, t. on R. Tweed, co. Koxburgh, Scotl.; fishing
tackle making: p. 3,982.

[barded by French, 1884.

Kelung, treaty port on N. coast of Formosa, bomKelvin, R. of Scotl., flows (21 m.) S.W. to the Clyde at
Particle.

Kennble, Jar. in Witts, Eng., nr. Malmesbury, p.

Reivin, A. of Scoth, nows (27 m.) 5, W. to the Ciydeat Partick.

Remble, par. in Wilts, Eng., nr. Malmesbury, p. Kempen, industrl. t. nr. Halisz, Posen, Prussla, p. 6,820, also mfig. t. in Rhenish Pruss., nr. Dusseldorf, p. 5.470. [export; p. 3.482.]

Kempsley, 3.47 N.S.W., on R. Macleay; grain

Kempton, t. Fashania, 29 in. N. Hobart, p. (dist.)

Kempton, & Fashania, 29 in. N. Hobart, p. (dist.), 3,200.
Kemasing, vil. Kent, Eng., nr. Sevenoaks, p. (dist.)
Ken, or Kayan, R. of India, N.W. prov., flows (230 m.)
to the Junina; also R. of Scotl., co. Kirkcudbright;
tib. (28 m.) of R. Dee.
Kendal, jor Kirkby Kendal, mkt. & on L. Windermere, co. Westmorland, Eng., p. 74,033.
Kendallville, c. Noble co., Indiana, U.S.A., p. 4,250.
Kenderes, d. nr. St. Miklos, Török, Hungary, p. 5,092.
Kendrapara, & in Cuttack dist., Orissa, India, p. 76,800.

Kendrapara, L. in Cuttack dist., Orisas, india, p. 16,00.

Keneh, c. tr. centre, Upper Egypt, on R. Nie, p. Keneg Tung, Shan state, Burma; area 12,000 ku, m., lest.) 170,000; cap. K., p. 10,000.

Kenla, or Kenya, min. in Brit. E. Africa, alt. 18,200, Kenlay, or Kenya, min. in Brit. E. Africa, alt. 18,200, Kenlay, or Kenya, min. in Brit. E. Africa, alt. 18,200, Kenley, per. and res. sist. Surrey, Eng., p. 1,307, Kenmare, t. on R. Blackwater, co. Kerry, Ireland, p. 1,260; Kenmare R., or B. (28 m.), inlet of Kerry Coast, Ireland. [from Loch Tay. Kenmore, vil. Perthsh., Scotl., at efflux of R. Tay Kennebec, R. Maine, U.S.A., flows (200 m.) from Moosehead L. to the Atlantic.

Kennett R., Witts and Bucks, Eng., trib. (44 m.) of R. Thames.

Kennington, S. suburb, London, Eng., pt. of bor. of enossha, mig. t. cap. of K. co., Wisconsin, U.S.A. e on W. shore of L. Michigan, p. 21,321.

Kennal Green, etc.l. dist. Middlesex, subn. to London, Eng., p. 11,460.

Eng., p. 11,460. Kensal Rise, res. sub. of London, Eng., p. 5,800.

Kensal Town, eccl. dist. W. London, Eng.; residl.,

p. 10,025.

Rensington, parl. bor. of W. London, Eng.; mainly residl., contrs. K. Palace and Gardens, p. 172,402.

Rent, R. Westmorland, Eng., flows 20 m. past Kendal, to Morecambe B.; also maritime co. of S.E. Eng.; area 1,555 sq. m., p. 1,045,661; agr., stock raising, hop and cherry growing. [Eng., p. 52,400. Kentish Town, residi industri. dist. N.W. 1.ondon, Kenton, vil. on Scioto R., Hardin co., Ohio, U.S. A. p. 7,800.

Kent's Cavern, bone cave nr. Torquay, Devon, Eng.,
Kentucky, E. Centl. st. in the Mississippi basin, U.S.A.

2200.000: agr., mining and area do,doo sq. m., p. 250,000; agr., mining and manuf.; cap. Frankfort; large c. Louisville, at falls of Ohio. Kentucky R. flows (35 m.) from the Camberland Mins. to the Ohio. [Mississippi R., p. 15,000. Keokuk; industri v. cap. Lee co., lowa, U.S.A., on the Kerak (the anc. Kir. Harcseth) / in fertile dist Syrian willower the higher Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the

vilayet, Asiatic Turkey; castle of the Crusaders,

p. 7,800.

Kerang, Lon London R, Victoria, p (dist) 1,864

Kerasund, L in Trebizond vilayet, Asia Minor (the anc. Pharnacia): Byzantine fortress, p. 9,500.

Kerbela, t. in Baglidad vilayet, Asiatic Turkey, a place of pilgrimage, the sacred c. of the Silites, p. 65,000 Kerguellen Land, or Desolation Isl. (oo m. long), an uninhabited isl. in the Southern Ocn , claimed by France.

Kerkenna Isls., grp. in G of Cabes, E. of Tunis Kerkuk, & in Mosul vilayet, Asiatic Turkey, mart for

Kerkuk, A. in Mosul vilayet, Asiatic Turkey, mart for Arab horses, p. 10,000.

Kermadec Isls., grp (Brit.) in S. Pacific Oc. Kerman, prov. of Persa., on P. G.; area 9,692 sq. m., p. 600,000; cap. K., p. 35,000. Persa. S. of Kurdistan. p. 400,000; cap. K., p. 35,000. Fermuk, 4. on L. Chail. Cettl Africa; in 17,000. Kermuk, 4. on L. Chail. Cettl Africa; in central Kerry, maritime co. Ireland, prov. Munster: area 1,816 sq. m., p. (decreasing) 180,208; cap. Tralee. Kertch, 367. on K. Stratt, govt Tauruda, Russ; nameral haths, wheat export, p. 30,634. Kesteven, area of choice of the province of the ford and Sleadord (g. v). Lesyick, mkt. f. nr. L. Derwentwater, Pennth div., Kesteven, kt. f. nr. L. Derwentwater, Pennth div.,

Keswick, mkt. \( \ell \) nr. L. Derwentwater, Penrith div., Cumberland, Fing., on R. Greta, p. 4.403

Ketcho, or Kesho, also called Hanoi, commerci c. on

R. Sang Roi, Tonquur; gt. mart for lacquered ware, silks, etc., occupied by the French in 1882, p 50,000.

Ketchum, I Idaho, U.S.A., p, 4,847.

Kettering, L. (mkt. and mftg.) co. Northants, Eng.,

Returns, 5 p. 29,076
Rew, par. on R. Thames, Surrey, Eng., opp. Brentford; contains Kew Gardens and Royal Observatory, p. (dist.) 4,864; also township near Melbourne, Victoria, p. 6,243
Rewannee, Lin Henry co., Illinois, U.S.A., p. 3,466
Rewannew Bay, Michigan, U.S.A., inlet of L. Superior: K. Point, promontory on same, copper

Superior: K. Point, promonuty on same, soppo-mining dist. is., group W. of Au Isls., in Malay Arch., total p. 18,000. [Jersey, U.S.A., p. 4,877. Keyport, £. on Rantan Bay, Monmouth co., New Keyser, vi. on New Creek, Mineral co., W. Virghia, U.S.A., p. 2,468. N.W. Indian territory, U.S.A., p. Key West, cap. Munro co., Florida, U.S.A., on sm. Isl. same name; naval stn. and cigar factories; p.

Khabarovsk, cap. c. Amur regn. Asiatic Russ., and of Khabarovsk div., of same; impt. mil. centre; cathe-

Khabarovsk div., of same; impt. mil. centre; cathedral; p. 21,000.
Khaibar, or Khyber, difficult mtn. \$\text{pars}\$ betw. 3n the Punjab and Afghanistan, commanding route from Peshawur to Kabul, traversed by Alexander the Great and by two Brit. expeditions.
Khairagarh, nat. \$x\$. Chatisgrin div., Cent. Prov., India, area 90 sq. m., p. (decreased by faming 137,500; Res. of Rajah, K., L., p. 5,510.
Khairpur, nat. \$x\$. Sindh prov., Bombay, India, area 6,100 sq. m., p. 200,000; cap. K., t., on canal nr. R. Indus; p. 6,230.
Khamgaon, \$\text{in}\$ in Akola dist., Berar, India, p. \$x\$.656.
Khamgaon, \$\text{fin}\$ in Akola dist., Berar, India, p. \$x\$.656.

Khandesh, dist. Deccan div., Bombay, India; area 10,007 sq. m., p. 1,500,000; cap. Dhulia. Khandiva, t. in Nimar dist., Cent. Prov., India; Jain and other temples; gd. tr.; p. 16,000. [10,000. Khar, sm. fertile prov. Persia; the anc. Choara; p. Kharkoff, a govt. of Little Russia, in basin of R.'s Don and Dnieper; area 2:0,47 sq. m.; mainly agr.; cap. K., gt. c. on R. Donets; university, cathedral, impt. com. and ind.; p. 200,000. Kharput, in Memuret-el-Aziz vilayet, Asia Minor; old castle. Armenian atroclites. 1805: 1.0.2000.

Kharput, in Memuret-ei-Aziz viiayet, Asia Minor; old castle, Armenian atroclites, 1895; p. 20,000.
Khartoum, cap. of Anglo-Egyptian Soudan, at union of White and Blue Nile; p. 20,000; the Sirdar's palace and the Gordon College are about a mile N.E. of this, and the latter stands where Gordon fell in 1885. City taken from the Mahdists by Lord Kitchener in 1898.
Khasi and Jaintia Hills, drv., in Assam, Brit, India; 2220 6014 1011. The castle Shilley area fell defer Shilleys.

area 6.041 sq. m.; p. 100.420. Hdqrs, Shullong.
Khatmandu, cap. of Nepaul kingdom, on R. Vishnumati; picturesque architecture; anc. carved wood-

mai; picturesque architecture; anc. carved woodwork; great trade; p. (est.) 50,000.
Khelat.—(See Kelat.)
Kheri, dist. in Lucknow div. Oudh, Brit. India, area 2,05 80, in., p. 90,564. Admin. hdgrs., Lakhimpur, nr. Kher t., p. 8,673.
Kherson, you. 5 W. Russia, Black Sea est., area 27,523 80, in., p. 3,550,000. Prolific grain-growing dist, eap. K. c., p. 75,000. Ch. t., Odessa (g. v.).
Khingan, Gt. and Little, intn. ranger, Mongolia and Maichuria, separating the platean from the plans. Khiva, formerly a kingdom of Cent. Asia, now khiva, formerly a kingdom of Cent. Asia, now khanate under Russin vissalage, occupying the delta of the Anim Daria. Area 23,316 8q. in., p. delta of the Anni Daria, Area 23,316 sq m, p. 800,000; cap. K, c. (fortified), 235 m W. of Lokhari

p 12,000 (sq. k. c. (minimed), 23 m w. of 1 sokarr p 12,000 (centre; p. 20,000 Khojend, r on Sir Darla, Russ, Turkestan, impt tr. Khokand, dist r prov. Ferphana, Russ Cent. Asia: ontains palace of the old Khans; exports silk and cotton, p 85,0 w 20,000.

Kholm, L in Russ, Poland, nr. Lublin, good tr. p. Khorassan, great prov. Persia, 5 of Kluva, and W. of Afghanistan , area 105,236 sq m , p. 1,000,000; cap. Meshed (q v.)

Rhulna, det Presidency div., Bengal, Brit India; area 2,075 50. m., p. 1.25, 600; cap. Khulna, on R. Rhairab; good tr., p. 0,460. Khurja, t. m. Bulandshahr dist. N.W. Prov., India;

Mhuzistan, or Arbistan, fortile prov. of Persia, at head of P. Gulf, area 39,000 sq. in, the anc. Susiana; chf t Shuster.

Kickhta, 7, on Chinese front, er of S. Siberia, p. 6,427 Kiang-Si, inland prov. China, 5 of the Yang-tie Kiang, area (9,593 sq. m., p. 26,500,000, cap. Kan-

Ghang Kiang-Su, maritime prov. China, exports much silk, Kiang-Su, martime prov. China, exports much madrata, area 44,500 St. m. p. (est.) 22,005,000, cap. Nan-King. Kiania, f. in Borini krigdoni, W. Africa, p. (est.) 22,000; also spt. N.S.W., 92 m. S. of Sydney, p. (China. (dist.) 8,747.

Kiaochow, E., inlet on S. side of Shantung Peninsula, Kicking Horse Pass, over the Rocky Mtns., But

Columbia.

[1] 24.333

Kidderminster, Carpet mftg L in Worcesterslin, Eng.,
Kdsgrove, mftg L in Staffordsh, Fig. p 9,022

Kiel, 594. Schleswig-Holstein, Priss., Germany's chf. naval pert or the Baltic, shipbldg, and allied industries, p. 212,000

Kielce, govt. in S W. Russian Poland, minl. and agr., area 3.896 sq. m., p. 650,000; cap. K., t., factories,

industri., p. 3,000.

Kilbride, E., f. E. I.anark, Scotl., p. 1,342.

Kilbride, W., f. nr. Ardrossan, Ayrshire, Scotl. Alloride, W., r. nr. Ardrossan, Ayrante, Scott., p. 1,631.
Kilbura, N.W. suburb of London, Eng., residl. and Kildare, inld. co. Leinster prov., Ireland, area 654. sq. m., p. (increasing) 66,498; also inkt. t., cap. of foregoing co., p. 1,174. Close by is the famous race-course, the Curragh of Kildare (g.v.).

Kilimanjaro, mim., volcanic E. Africa, highest pk. in the cont., alt. 19,700 ft.

Kilindria, sini. f. on S. cst. Asia Minor. the anc. Kelenderio, p. 3,460. Clare, Ireland, p. 1,600. Kilkee, wat. 91. co. Clare, Ireland, p. 1,600. Kilkeen, y2. and fishery t. co. Down, Ireland, p. 1,456. Kilkeeniy, inland co. Leinster prov., Ireland, p. 1,456. To S. co. L. n., p. (decreasing) 7,4291. cap. K., t. on K., Nore, p. 10,513. kilkeran Bay, large and intricate indent., on Calway Kilkeran Bay, large and intricate indent., on Calway Killaria, 396. on K. Bay, co. Mayo, Ireland, p. 780. Killarney, industri. t. in co. Kerry, Ireland, p. 780. Killarney, industri. t. in co. Kerry, Ireland, p. 6,430. Killarney, Lakes of, Lower, Middle, and Upper, all celebrated for their beauty; attractive tourist resorts. Killary Harbour, niet between co. Se Galway and Mayo,

Killary Harbour, inlet between co.'s Galway and Mayo, Ireland. [nr. Blair Athole,

Ireland. [nr. Blair Athole, Killiecrankie Pass of, Perthsh., Scotl., on R. Garry, Killien, picturesque vst. at head of Loch Tay, Perthsh., Scotl. [co. Vermont, U.S.A., alt. 4,222 ft. Killing from Peak, one of the Green mines, Rutland Kilmalcolm, Nathopathue resort on Gryfe Water, Renfrewsh., Scotl., p. 1,170. Kilmarcock, ry. centre and burgh of the Kilmarnock grp. on K. Water, Ayrsh., Scotl., carpet factories, textile and ironworks, p. 34,739. Kilmarrock, r. nr. Melbonnue, Victoria, p. (dist.), 3,473. Kilpatrick, Old, or West, vst. on R. Clyde, Dumbartonsh, Scotl., p. 1,260.

Kilpatrick, Old, or West, vil. on R. Clyde, Dumbartonsh, Scotl., p. 1,236.

Kilrush, 5pt. S.W. Clare, on R. Shannon, Ireland, p. 3,800.

Kilsyth, hurgh of Stirlingsh, Scotl., whinstone Cilwa, or Quilva, harbr., Germ. E. Africa. Ip. 4,945.

Kilwinning, t. on R. Garnock, N. Ayrsh., Scotl, Kimberley, t. on Vaal R., Cape Colony, S. Africa, centre of Grqualand West, damond mining dist., p. 25,000; also industri, suburb of Nottingham, Eng., p. 5,400; also gold-field dist. r. West Austraha; and sm. t.'s in S. Austraha and Queensland.

Kincardine, or the Mearns, E. martime 60. Scotl.,

sm. t.'s in S. Australia and Queensland.

Kincardine, or the Mearns, E. maritime co. Scott,
hetween Forfar and Aberd. at vieta 384 sq. in;
agr. and fishing; p. 41,007, co. t. Ston blaven,
Kinder Scout, or The Peak, mtn. in N. Derbysh,
Eing, alt., 2,080 ft.
Kineton, inst. t. in Warwicksh., Eing, in: StratfordKing George's Sound, West Auttralia; fine harbr,
and bay, in: Albany.
Kinghorn, buryh, Fife co., Scott, one of the KirkFing '181, Behring Sea, U.S.A., possession; also
isl at ent. Bass's Stratts, Tashannia; also one of sin.
French grp. in Low Arch., S. "acific.
Kingman, industrl. c. in Kingman, inco., Kar-sas, 'U.S.A.,
p. 4,873.

p. 4.873. [p. 3.049. Kingabridge, mkt. t on Deron est, mr Exeter, Eng., Kingabury, par. on R. Tame, Warwicksh, Ing.,

R. Basingstoke, Hants, Eng., 2004. Ring's County, Prov. Lemster, Ireland, area 772 sq. m.: much marshy and mcluding Bog Alleni, also larren uplands (Sneve Bloom and other

772 cq. m.; much marshy and mchading Brg of Alleni, also harren uplands (Snewe Bloom and other mins.); p. 56,769 (decreasing); co. t. Tullamore. Ring's Langley, c. in. Beckhampster, i, Hers, Eng., p. 1,50. [Ouve; p. 20,205, King's Lynn, bor. and spt. Norfolk, Eng., on K. King's Mt., rulge in N. and S. Carolu U.S.A., spur of the Blue Ridge, highest pk. Mt. Crowder; alt. 2,000 ft. [tersth., Eng., ar. Birrungham p. 81,162, King's Norton (with Northfield), industri c. Worces-King's River, Cahforma, U.S.A., flows from Sierra Nevada to L. Tulare. Kingston, c. Frontenac co. Ontario, Canada, on L., O., old fort and thriving port, p. 18,500; also cap. Ulster co., New York, U.S.A., on R. Hudson, tobacco manuf.; p. 25,000; also cap. Januaica, p. 40,000, disastrous earthquake, Jan. 1997, nearly 2,000 lives lost; also t. in St. Vincent, Brit. W. Indies, p. 6,200; also smaller t.'s in Victoria S. Australia, Tasmanua, New Zealand, New Brunswick, and many of the U.S.A.
Kingston-on-Thames, resident, and mkt. 4. of Surrey, Eng., on R. Thames, 12 m. W. of London Bridge, with Royal Park, and fine scenery; p. 37,977-Kingston-upon-Hull.—(See Hull.)

area 8; sq. m.; p. 1,28; contains Loch Leven, on which stands co. t., K., p. 2,618. [land, p. 4,250. Kinsale, Fishery t. on est. on R. Bandon, co. Cork, Ire-Kintore, sml. t. on R. Don, nr. Aberdeen, Scotl.; one

Kinsale, Psilery J. On Ph. O. Nr. Aberdeen, Scotl.; one of the Eigin Burgis, p. 818.
Kintore, Smil. J. on R. Don, nr. Aberdeen, Scotl.; one of the Eigin Burgis, p. 818.
Kintyre, Pen. S. Argylish, Scotl. between Firth of Clyde and Atlantic, 40 m long by 17 m. wide at greatest; southern pr., the Mull of Kintyre, [3,375.
Kinver, industrl. J. on R. Stour, co. Stafford, Eng., p. Kiolen, or Kjolen, mrs. range in Scandinava, highest pt. Mt. Sulitema, 5,056 ft.
Kiolen, or Kjolen, mrs. range in Scandinava, highest pt. Mt. Sulitema, 5,056 ft.
Kiong Tchou, c. cap. Hanian Isl., N. coast, China; p. Kioto, c. in Hondo Isl., Japan, former cap. of the Empire; many thriving manufs., and nuch nat, and arthicial beauty; p. 360,000 (with subs. 600,000).
Kippar, industrl. temusksp nr. Pontefract, W. R. Yorks, Eng., p. 3,149.
Kippare Mt., co.'S Wicklow and Dublin, Ireland, alt. Kiratpur, commrcl. J. nr. Bijnaur, N. W. Prov., India, p. 3,100.
Kirchberg, industrl. L. in Zwickau dist., Saxony, nr. 666.

p. 13:00.

Rirchberg, industri. J. in Zwickau dist., Saxony, nr. Kirchdorf, J. nr. Fiperies, Hungary, p. 3:084.

Kirchberg, industri. J. in Zwickau dist., Saxony, nr. Kirchdorf, J. nr. Fiperies, Hungary, p. 3:084.

Kirchheim, mftg. J. nr. Stuttgart, Wurtemberg, p. Kirghiz Steppes, gt. plams and uplands. N. of the Caspian and Aral Seas, inhabited by the wandering

Rifghiz Steppes, gr. piams and upianus N. of the Caspian and Aral Seas, inhabited by the wandering Mongolian Tartar race, numbering nearly 3,000,000. The K.S. adnim, dw, of Asaite R. hes S.W. of Siberia, area 755,793 stj. in. [centre; p. 12,000. Kirla, t. in. Chincse Turkestan, nr. Khotang; tade Kirlin, pr.2. Main huran, S. of the Singari R. and N. of Corea and the Liaoting Penni, area 110,000 sq. in., p. 3,500,000, cap. Kirm-Oula, on R. Sungari, p. 750,000. [Fing. p. 3,410. Kirkburton, mftg. t. nr. Huddersheld, W.K. Yofks, Kirkby Lonscale, inkt. t. on R. Lune, Westmorland, Eng., p. 1,524. [Eng., p. 1,524. [Kirkby Stephen, inkt. t. on R. Dove, N.R. Yorks, Kirkby Stephen, inkt. t. on R. Eden, Westmorland, Ing., p. 1,075. [Shipping tr. p. 3,000. Kirkcaldy, spt. t. and burgh of co. Fife, Scotl., gd. Kirkcudbright, martine co. of S.W. Scotl., slunting on Irish Sea and Solway Firth; area 900 stj. m. cinely agr., p. 8,350, co. t. K. (one of the Dunffres Burghs); p. 4,101.

Burghs): p 2, 101. [Eng., p. 3, 703. Kirkham, mkt and mftg t nr Preston, Lancashne, Kirkheaton, industri. t. nr Huddersfield, W.R. Yorks,

Kirkheaton, industri. t. nr. Huddersfield, W.R. Yorks, 1:10;., p. 2,c2r.
Kirkintilloch, iron-fdg. birryh on the Firth of Clyde canal. Dumbartonsh , Scotl., p. 11,932.
Kirk-Killissch. t. in. Adranoyle sanak, Europn. Turkey; many mosques, gd. tr.; p. 18,000.
Kirkland, vil. on L. Washington, Washington Terr., U.S.A., p. 3,807.
Kirk Leatham, t. nr. Guisborough in N.R. Yorks, Kirk, Maiden, par. in Wustowish., Scotl., the most southerly pl. in S., p. 2,500.
Kirkstone Pass, min. vil. in Westmorland, Eng., nr. Ambleside, between Ullswater and Windermere Lakes.

[b. 6,240.

Amoresuse, extreme onswater and windermere Lakes.

Kirksvalle, industri. I. in Adair co., Missouri, U.S., Kirksvalle, brugh (of the Wick group) on Pomona isl., one of the Orkneys, oif the Scottish est.; p. 3,810.

Kirman, eleyated I. in Persas, cap. of prov same name; gt. fr.: p. 45,000.

Kirriemuir, burgh of Forfar, Scotl., linen factories, Mirton-in-Lindsey, nikt. I. in N.W. Lincolnsh., Eng., nr. Brigg. p. 2,620. nr. Brigg, p. 1.892. Kishangarh, nat. st. in the Rajputan: Agency, India;

ares 874 sq. m., p. 88,000 (decreased nearly one-third by famine); cap. K., flourishing tr., p. 25,200. Repeated from the comparison of the Roumanian frontier; gt. annual fair; vineyards, distillenes, etc.; p. 250,000. Kishni, or Rishnia, isl. nr. entroe. to Fersian G., Kissemee, R., Florida, flows (po m.) to L. Okeechobee, Kissingen, wat. jsl. Bavara, on the Franconian Saale; pop. spa (vis. by 15,000 persons annually); res. p. 5,000.

P. 5,000.

Kistna, or Krishna, dist. N.E. Madras Pres., India;
area 8,307 50 m., p. 2,250,000. Admin. hdgrs.
Masulipatam, first Brit. settlement on the Coromandel

cst. Rittaning, bor. on Allegiany R., Armstrong co., Rittaning Mtns., or Blue Mtns., range in Penn. and New Jersey, U.S.A., a continuation of the

Kittatiany Mens., or Sine Mens., vange in Feint. and New Jersey, U.S.A., a continuation of the Appalachian system.

Kittery, t. (with naval dockyd.) on Piscataqua R., York co., Maine, U.S.A., p. 6,230. [p. 53,000. Kia-Klang, c. and reaty pt. on Yang-tse-Kiang, China; Kiung Chow.—(See Klong Tchou.)

Kiu-Siu, or Kimo, most S. of the large ist. of Japan, area 16,80 sq. m.; p. 6,50,000; chf. t. Nagzaski.

Kivu, L. Central Africa, N. of L. Tanganyika, length

5; m., area, 1,00 sq. m.

5; m., area, 1,00 sq. m.

Kizil-Arvad, t. in Russian Turkestan, E. of Caspian S.,

Kizil-Irmak, (or Red River), the largest t. of Asia

Minor, rising in the Kizil Dagh and flowing past

Zara to Sivas and (soo m.) to the Black Sea.

Kiziliar, fort. t. in Stravnoyol gowt., Russia, nr. the

Casping S. in wneward dist. n. of the

Kizliar, fort. 1. in Stravropol govt., Russia, nr. the Caspian S., in vneyard dist., p. 9,40.
Kladno, mming 1. nr. Prague, Hohemia, p. 10,100.
Klagenfurth, 1. on R. Gian, cap. of Austrian Duchy of Carinthia; white-lead, tobacco and silik factories; p. 18,946.
[by K. R. (275 m.) to Pacific, Klamath, L. California and Oregon, U.S.A., discharges Klattagu, mftg. 1. nr. Pilsen, Bohemia, Austria,

p. 13.750.

Kiausenburg, or Kolosvar, cap. of K. co., Transylvania, on R. Szamos; seat of learning and tr., gt.

fairs, p. 35,000. Klausthal, mining !. in Hanover, Pruss., in the Upper

Hanz Mins., p. 8,00.

Hanz Mins., p. 8,00.

Handyke R., in N.W. Terr, Canada, trib. of Yukon, in gold-mine region, area 1,500 s.j. m. [Canal. Knapdale, dist. of co. Argyll, Scott., S. of Crian. Knareaborugh, mkr 2 W.R. Yorks, Lug, on R. Niadi, the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th

Knareaborough, mkt A.W.R. Yorks, Ling., on R. Nidd; old castle, petrifying well; p. 5,315.

nd petrifying well; p. 5,315.

nd petrifying well; p. 5,315.

nd petrifying well; p. 5,315.

nd Knightshridge, dit. between Hyde Park and Kensington, p. (with Mayfair) 26,183.

[[comml.] 22,400.

Knowling, t. in Dalmatta, Austria, on R. Kerka, p. Knockmeledown Mtns., co.'s Waterford, and Tuperary. Ireland, highest pt. 2,500 ft.

Knowling, t. in Brome co. (Quebec, Canada, p. (dist.)

Knowling, e. cap. of Knox co., Tennessee, U. S.A.; university and manuf., p. 37,460; also M. in Marton co., Iowa, U.S.A., p. 4,860, also sml. t. in Illinos, U.S.A.

Knutsford, mkt. t. in Cheshre, Eing: cotton, worsted.

U.S.A. [leather factories, p. 5,760. Knutsford, mkt. t. in Cheshre, Eng.; cotton, worsted, Kobdo, t. in W Mongolia, China; linpt. cattle tr. p. 6,200; in stock-raising dist. same name. [p. 1,48,500. Kobe, t. in: Hingo, Japan, flourishing port; great tr., Kodiak I.al., Alaska, separated from the peninsula by Shellikoff Strait.

Shelikoff Strait. [p. 7,500. Roesfeld, t. nr. Dortmund, Westphalia, Prussia; cavite, Rohat, dix., Peshawur div., Punjab, India, area 2,777 sq. nr., p. 20,000; cap. K. (military t.), p. 30,260. Koh-i-Baba Mtns., Afhanistan, spur of the Hmdu Kush, highest pt. 17,640 ft. Rokomo, c. in agr. region on Wild Cat R., Howard co., Indiana, U.S.A., p. 12,240. [no outlet. Koko-Nor, salt L. Mongolia, China; area 2,000; x nr., Kola, penin. N. Europe (Russ. terr.), extension of Lapland; also fort. t. in same, Archangel govit. Kolaba, dix. in nat. State Mysore, India, area 2,845 sq. nr., p. 735,000; cap. K., t. 43 nr. E. of Bangalore, p. 13,120.

p. 13, 120.

Kolberg, 19t. in Pomerania, Prusa, near the Baltic shore; wat. pl. with brine and mud baths, p. 22,400.

Kolding, mkt. 7. Vejle co., Denmark; good harbout

and tr., p. 13,428.
Kolhapur, nat. statt in Deccan div., Bombay, India.

area 2,8r6 sq. m., p. 912,000; cap. Kolapur or Karvir, p. 50,000. Kolo, t. in Russian Poland, on an isl. of the Warta; Kolomea, mfrg. t. in dist. same name on R. Pruth, Galicia, Austria, p. 44,000 (half jews). Kolonna, t. on R. Moskva, Moscow govt., Russia; silk and other factories, p. 22,474. Kolozvar.—(See Klausenburg.) Kolonno, rowks (growth, t. on R. Izhora, Russia, nr. Kolpino, irowks (growth, t. on R. Izhora, Russia, nr.

Koljivan, Forowki, (rown), t. on R. Izhora, Russia, nr. St. Petersburg, p. 12,780. [tr. p. 13,464. Kolyvan, t. in Tomsk govt., W. Siberia, Russia; Impt. Kolyvan, k. on Byelaya R., Tomsk govt.,

Kolyvanskiy-Zavod, I. on Byelaya R., Tomsk govt., Russia: jasper and marble works, p. 5740.

Komarom, industri. I. cap. of Hungarian co. same name, on R. Danube, p. 21,562.

Komatau, I. in govt. dist. same name, Bohemia, nr. Aussig.; ry. works, watch and toy-making, p. 76,520.

Kong Mtna, in nat. State same name, West Africa, between Soudan and Upper Guinea; alt. 2,500 ft, Kongsberg, silver mining i. Norway, co. Buskerud, nr. Christiania, p. 5,679.

Konia, agr. and pastl. vilayed, Asia Minor, with carpet and silk industries, p. 1,000,000; chf. t. K. (the anc. Iconium), many fine mosques, and impst. tr., p. 4,500.

Koniggratz, garrison I. in Bohemia nr. Prague; here was fought the battle of Sadowa in 1866, p. 10,720.

[weaving etc., p. 1,7440.

liere was fought the battle of Sadowa in 1865, p. 170, 200.
Too 1200.
Too 12 Columbia,

Koprili, t. in Macedonia, Turkey, nr. Uskub; p. 5.873. Korat, walled t. in Slamese prov. same name, busy tr. centre, p. 6,260.

Kordofan, country of the E. Soudan, Africa, area est. by Gordon at 100,000 sq. m., p. 300,000; cap. El-Obeid.

Obeid.

North Color S. M. M. P. 300007, Copp. Left Color S. M. Russia; often plundered by Cossacks, Foles, and Lithuanians; now a busy mdustri. Centre, p. 10,000.

Korenburg, C. on K. Danube, Lower Austria; salt and com fr., textile ind., p. 8,450.

Korostyshev, sunner revort, in Kieff govt., S.W. Kussia, mineral springs, p. 3,216.

Korsör, 392. on Zealand isl., Denmark, E. shore of the Ge. Belf., fine hirbr., p. 6,547

Kosel, t. on R. Oder, Frussin. Silesia; good river tr., royal stud farm, p. 7,604.

Kosen, sumnier revort on R. Saale, Saxony, Pruss., p. 15,000.

Kosen, sumnier revort on R. Saale, Saxony, Pruss., p. 4,764, also p. in the Australian Alps, alt 7,306 ft. Koslin, t. in Fomerame, Pruss, cadel acad., p. 21,260.

Koslin, t. in Fomerame, Pruss, cadel acad., p. 21,260.

Koslov, industri. A in Tambov gott., Russia, large tr., p. 36,554.

Koslov, industri. t. in Tambov govt., Russia, large tr., p. 38,54.
Kossier, or Cossier, 59t. Egypt, on the Red Sea, p. Kostroma, gov. Middle Russia, area 32,703 sq. m., mainly woodland. p. 1,700,000; cap. K., c. at conflu. of Volga and K. R. S. p. 42,622.
Kotah, nat. sta. R. R. plutana Agency, India; area, 5,700 sq. m., p. 545,000; cap. K., c. on Charabal R.; p. 33,500 (docreasing).
Kotar, 59t. Travalu.ore stn., India, p. 7,562. [13,243,643, R. in Sumatra, cap. prov. Acheen, p. Kotelna, t. in Kharkov govt., Russia, on Poltava froutier; oil works, p. 1,4310. [23,500.
Kothen, industri. t. in Anhalt, Germany, nr. Halle, p. Kotka, 59t. Finland, in Russa. govt., Vibogg. p. 4,850. Kotri, 59t. on R. Indus, Karachi, dist., Bombay, India, p. 9,3160.

p. 9,100. Kotzebue Sound, inlet of Behring Sea, Alaska. Kovel, t. in Volhynia govt., Russ., on banks of L. Turiya; good tr., p. 18,420.

Kovno, a Lithuanian govt. of N.W. Russ., on German frontier; area 15,601 sq. m., p. 1,800,000; cap. K., fortfd. c. on R. Niemen: great tr., p. 86,208 (Kovroff. t. in Vladimur govt., Russ., on Nijm-Novgorod ime; ry. wks. and cotton mills, p. 90,000.
Kozlow, t. on R. Eyesnoi Voronezh, Tambov govt., p. 200.

Russ.; impt. agr. export centre, p. 51,240. Kragero, t. in Bratsberg co., Norway; experts ice,

timber, wood-pulp, etc., p. 5,647. Kraguyevatz, i. in Central Servia; arsenal, garrison,

krajuyevate. . in Central Servis, areatal, garrison, cathodral, college, p. 15,000.

Kral, Isthmus of, betwn. Malay penin, and Siam.

Krajova, industri. t. on R. Schyl, Roumania; p. 24,680.

Kralzatos, volcano on isl. same name, Strait of Sunda,

RTREARCOS, VOICADO ON ISI, SAINE HAINE, STRAIT OF SUNDA, destructive eruption, 1883.
Kraanoyarak, t. on R. Yenesci, Siberia, p. 58,380.
Kremenets, t. in Volhynia govt., Russ., nr. the Galician border of Austria; tobacco and gram tr., p. 18,500.
Kremenskaya, Cossack industri. and tr. t. nr. Tasritzyn, S.E. Russ., p. 20,140.
Krementchug, t. on R. Duieper, Poltava govt., Russ., but centre for timper gram tobacco.

buy centre for timber, gram, tobacco, etc.; p. (with

by centre for timber, gram, topacco, etc., p. 100.

Kremnitz, f. nr. Neusohl, Hungary, in mining dist. p. Krems, industri. f. on R. Danube, Austria; vinegar, whito lead etc.; p. 73,760.

Kremster, mfig. f. in Moravia, Austria, p. (with garrison) 41,560.

Kreuzburg, f. nr. Oppeln, Silesia, Pruss; mfig.; p. Kreuzburg, f. nr. Oppeln, Silesia, Pruss; mfig.; p. Kreuzburg, f. nr. Audia dist., Bengal, Brit. India, on R. Krishnagar, f. in Nadia dist., Bengal, Brit. India, on R. Islanei: coloured clay figures manuf.; p. 26,050.

Jalangi; coloured clay figures manuf.; p. 25,050. Krivoi Rog, c. on Ingulats R., Kherson govt. Russ.; rich minl, dist.; p. 10,850.

Krivoscie, barren and mtn. dist., Dinaric, Alpine regn. of Austria; inhabited by Servians (who revolted in 1869 and 1881 agnst. mil. serv.); p. (including garrison)

30,500.

Kronstadt, t. in S.E. Transylvania, Hungary, gt. commerci, and tr. centre; p. 38,560.

Kronstad, t. on the Valasche R., Orange R. Col., S.

Africa; p. 4,674. Krumau, c. on R. Moldau, Bohemia; Prince Schwar-

zenberg's chateau; textile industr.; p. 8,947. Krushevatz, i. m Servia, 95 m. E.S.E. of Belgrade; p.

Kuba, 201d, a dist. /. Transcaucasia, in the Russn. govt. Baku; sikworm culture, p. 17,265.
Kuban, prov. N. Caucasia, Russ., on Black S. and S. Kuban, prov. N. Caucasia, Russ., on Black S. and S. Kuban, prov. N. Caucasia, Russ.

of Azov; area 36,495 sq. m., p. 1,120,640; cap. Yekaterinoslav,

Yekaterinoslav, Russia, trib. (170 m.) of R. Kubinskoe. Kuch Behar, nat. st. Rangpur dist., Bengal; area 1,507 sq. m., p. 605,000; cap. K.B., c. p. 10,000. Kuchinserabujima, st. Japan (8 m. by 2) S. of Kiu-Siu; mtns., highest pk. 2,313 ft. Kuen-Lun Mtns., range in Centl. Asia, separating Tibet from Chinese Turkestan; highest pks., 22,000 ft. Nufstein fortil t. in Tvol on bourdy. betwa Austra

Kufstein, fortd. t. in Tyrol, on boundy. betwn. Austria and Bavaria, nr. Innsbruck, p. 7,320. Kulja, terr. in Chinese N.W. Mongolia; area 19,000

Kulja, terr. in Chinese N.W. Möngolia; area 19,000 sd. m., p. abt. 125,000 [50,000 nomads]; agr., forest, and min. lands; ch. is. Suidun (cap.) and Old Kulja, on the Ill R., p. 10,000. (oil mills, impt. tr., p. 12,647. Kulm, t. on R. Vistulas, W. Prussia; anc. wells, large Kulmsee, t. nr. Thorn, W. Prussia; acthedral; sugar, butter, and cheese making, p. 9,40. [sait mines, Kulp, vil. in Transcaucasia, Russ., Erivan govt; rock Rum, snl. prev. Persia, S. of Teheran prov., cap. Kum, a pl. of pilgrimage, p. 20,000. Rumaon, srv. N.W. Prov., India, in the Himalayas; area 12,743 kg. m., p. 1.550,000; annexed after Gurkha war of 1815; contains tea gardens. Kumta, t. in S. Kamara dist., Bombay, India, on sea cst. 40 m. S. of Karwar; sandalwood carvg., gd. tr., p. 11,102.

p. 11,100, Kun-Czent-Martony, industri. t. on Körös R., Hun-

gury, p. 12,60.

Kun-Czent-Miklos, t. on R. Danube, Hungary, g. tr.,
Kunene or Nourse R. (200 m.) S.W. Africa, forming
boundy. between Angola and German S.W. Africa,
and mainly in Portuguese terr.

Kungrad, trading t. in Russ. Cent. Asia, prov. Amu

Daria; centre of caravan routes to the Caspian and Uralsk prov.

Kungur, z. on Sylva R., govt. Perm, Russ., on the Siberian highway, tanneries, leather factories, over-

Siberian highway, tanneries, leather factories, overct. mkg., etc., b. 21,479.
Kun Long, dirf. and ferry on R. Salween, Shan
States, Burma, inpt. tradg. centre.
Kuopio, gwi. of Finland, Russia, area 16,000 sq. m.,
cap. K., t. on Lake Kalla-vesi, gd. tr., p. 10,400.
Kiprolii, t. in Macedonia, European Turkey, on R.
(Caspian S.
Kur, R. of Transcaucasia, Russia, flows (50 m.) to
Kurdistan (or country of the Kurds), regree comprised
in Irak-Ajeni prov. Persia, and Turkish vilayet
Bagdad, area (abt.) 500,000 sq. m., p. nearly 3 mill.,
cht. ts. Arbil, Abtum-Kupri, and Kerkuk.
Kurgan, dist. 4. on the Siberian Rly., govt. Tobolsk,
in agr. dist. Assatic Russ., flourishing trade in cattle
and food stuffs, p. 14,860.

and food stuffs, p. 14,850.

Kuria Muria Isis. (Rnt. poss.), grp. in Arabian Sea.

Kurile Isis., chn. of son. rsids. in N. Pacific, extending

from Kamschatka to 'ezo, Japanese poss.; mainly

intns, total p. 4.840.

Kursk, gov. of Middle Russ., area 17,937 sq. in.,
p. 3,500,000; cap. K., t. in funt-growing dist, with
thriving manuf. and good iv., grt annual fair,

p. 82,000. [p. 4,654.]
Kuruman, t. in Bechuanaland, S. Africa, on K. River,
Kurunegala, t. in N.W. prov. Ceylon, in centre of rice
and tea and coffee cultivatuon, p. 5,487; of prov.

350,000. Kurundwad, nat. st. Deccan div. Bombay, India, area 308 sq. n.. (divided into two branches), total p. 58,000, cap. R., t. on Panchanga R., p. 9,580. Kusdk, fort, on K. R., Afghanistan. Kuskoquini, R., Alaska, flows (450 m.) to K. Bay. Kustanaisk, t. on Tobol R., prov. Turgai, Asiatic Russ., in fertile prairie dist., cathedral, flourishing

tr., p. 16,400

tr., p. 10,400.

Rustendil, off. t. of mtns. dept., Bulgaria, on trib. of R. Strouma, hot mint!, springs, p. 12,500.

Rustenland, formr. Crownld. of Austria, on the Adratic (now Görz-with-Gradisca, Istria, and Trieste), area 2,976 sq. m. p. 760,000.

Kutaleh, t. of W. Asia Minor, on trib. of Sakaria R., imperior.

impt. tr., p. 30,000.
Kutais, gov. of Transcaucasia, Russ., on Black S. area 14,082 sq. m., total p. over a mill; cap. K. on R. Rion, thriving tr, and industries, p. 34,600. Kutno, mnftg. L. of Russn. Poland, 83 m. W. o

Kutno, mnftg. t. of Russn. Poland, 83 n. W. o Warsaw, p. 16,870.
Kuttenberg, manug t. in Bohemia, 40 m. from Prague, has anti-Semme troubles, p. 15,600.
Kuty, t. m. Kusow dist., Calicia, Austria, morocco-leather factories, pitch export, p. 7,000 (mostly Jews); adjng. vi. of Old Kuty has p. of 4,500
Kuznetsk, t. in Saratov govt., European Russ., hardware manuf., p. 25,400; also t. m. Altai regu., Tomsk govt., W. Siberia, Asiatic Russ., in mining dist., p. 11,460.

Kwangchow Bay, coaling stre. on S. ost. China. Kwantung prov., opp. Isl. of Hamau, held on lease [30 mill. Kwantung, prov. S. China, area 79,456 sq. m., ji. (abt.) Kwanza, R., of W. Africa (700 m.), within the Portu-

Kwanza, K., of W. Africa (700 m.), within the Portuguese terr. of Angola.

Kyanke Pyu, ch. & K.-p. dist. Lower Burma, Arakan div., p. (of t.) 3.800; (of dist.) 25,000.

Kyanke, dist. Melkula div. Upper Burma, area 1.273 sq. m., p. 144,000. cap. K. t. on Zawgyi R., notable pagodas, gd. tr., p. 7,400.

Kyffikuser, range of hills in Thuringia, Germany, with rulned castles of Rothenburg and Kyfikausen, and Imposing monument to Emp. William I.

Kyles of Bute, sound between Argylish. coast and N. Bute, Scott.

Kym R., of Bedfordsh. Eng., trib. [16 m.) of the Onse.

Kym R., of Bedfordsh., Eng., trib. (16 m.) of the Ouse. Kyneton, & in co. Dalhousie, Victoria, p. (dist.) 7,940. Kyparissia, & on G. of Arkadia, Morea, Greece

p. 3.63.
p. 3.63.
g. 3.63.
g. 3.63.
g. 3.63.
g. 3.64.
g. 3.69.
g.

Kythtul, £ in Karnal dist., Punjab, Brit. India, p. 14,700. [affit. of R. Ganges. Kyul R., of Behar, Bengal India, trib. of the Son, an

Lasland, Dan. isl. in the Baltic, Sea of Zealand, area

Lazland, Dan. 1:1. In the Baltic, Sea of Zealand, area 450 sq. m., p. 68,400.

La Beauce, 1:1. France, dep. Nord, nr. Lille, p. 3,867.

La Beauce, 1:1. France, dep. Nord, nr. Lille, p. 3,867.

La Beauce, 1:1. France, dep. Nord, nr. Lille, p. 3,867.

Labrador, 5enin. of Brit. N. America, area 530,000 sq. m., sterile, climate severe, mpt. fisheries; politically divd. between govts. Canada, Newfoundland, and Quebec prov.; p. 15,000.

Labuan, Brit. 5:1. in Malsy Arch.; area 30 sq. m., p. 3,500 (decreased).

Laccadive Islas, group of fourteen low coral iels off Malabar coast, Madras, in Arabian Sea, partly Brit., p. 14,500.

p. 14,500.

19. 14,500.

Lachine, M. and summer recort, and L., St. Louis, Jacques Cartier co., Quebec, Can., p. 10,509.

Lachian R. (700 m.), N.S.W., trib. R., Murrumbidgee, Lackawanna R., Penn., U.S.A., in ambrache coal region (length 55 m.), affit. of Susquebanna; on banks, L. t., p. 7,625.

Laconis, c. New Hampshire, U.S.A., on L. Winnepesaukee; railway works, p. 9,470.

Lacroma, 481. Dalmatia, Austria, beautiful scenery, royal château, rumed monasty.

Lacromes, c., L., co., on Mississippi R., Wisconsin, U.S.A.; timber industry; p. 29,000.

Lh. **prov.* of the Upper Indus, Kashmir, India; rea 30,000 sq. m., p. 23,000; cap. Leh, gt. tr. centre for Lhasa and the Tibetan highlands. The most elevated inhab. country in the world.

for Lhasa and the Tibetan highlands. The most elevated inhab. country in the world.

Ladamy Körös, t. in Hungary, nr. Guyula, p. 6,500.

Ladoga, L. nr. St. Petersburg, Russia (largest in Europe), area 6,150 sq. m., drained to G. of Finland by R. Neve.

Ladrones, arch. in N. Pacific, sold by Spain to

Lagrones, area. in N. racine, soin by Spain to Germany, 1899; total area 420 sq. m.; p. 12,000.
Ladybank, f. in. Cupar, Fife, Scott, p. 1,260.
Ladysmith, f. in Natal, S. Africa, besieged by Boers four months, 1890-1900; p. 3,200.
Lafayette, c. on Wabash R., Tippecanoe co., Indiana, U.S.A.; manuf. and university; p. 26,000; also sin. t's in Alabama and Oregon, U.S.A.; also pk. in White Mountain range, New Hampshire, U.S.A., also pk. in Lough.

White Mountain range, New Hampshire, U.S.A., alt. 5.259 the Ulster, Ireland (35 m.), flows to Belfast Lagny, t. in dep. Seine-et-Marne, France, p. 5.000.
Lago Delo Patros, L. of Brazil (140 m. long), drained by Rio Grande do Sul.
Lagonagro, t. in Potenza prov., Italy: French victy.
Lagoa, Brit. Colony on Bight of Benin, W. Africa: area (including the Protectorate) 27,000 sq. m. Lagos to m. coast has p. 33,000 (300 Europeans); populous nativet.'s inland are Abeokuta (150,000) and Ibadab (200,000). Also name of a t. in Mexico, Jalisco stn., p. 20,000; and of a fort. t. and spt. in Alszave, Portugal, p. 8, 140.

Jalisco sin., p. so,coc; and of a fort. t and spt. in Agarve, Fortugal, p. 8,760.

Laguns, t. of Tenerife, Canary Isls. (Spanish) in prosperous fruit-growing dist., p. 12,000.

Laguna del Madre, Ageom (120 m. by 14 m.) in S. Texas, U.S.A., coast of Rio Grande.

Laguna de Terminas, state of G. of Campoachy, Mexico (70 m. by 40 m.); also t. on bank of same, p. Lahadi, t. nr. Aden, Arabia, p. 5,200.

Lahadi, t. nr. Aden, Arabia, p. 5,200.

Laharpur, t. nr. Sitapur, Oudh, India; graytr.; p. La Have, R. Nova Scotta, flows (60 m.) to Atlantic at port of La Have Cross Rosda.

La Haye.—(See Hague, The.)

Laha, R. of Fruss, in Rhine prov. and Hesse-Nassau, flowing (125 m.) from its source in Westphalia to the Rhine.

Lahore, wiv. Punjab, Brit. India, area 24,972 sq. m., p. 5,500,000; also centri. div of same, 3,678 sq. m., p., 1,200,000; corn, maise, millet, etc., culture. Cap. Lahore c., on R. Ravi; silk, gold, and silver lace, and metal indust.; p. 124,600.

Lahr, A (industri.) Baden, nr. Carisruhe, p. 20, 220. Lahul, sub. 47v. Kangra dist., Punjab, a velley of the Himalayas, p. 6,290. Laibach, csp. Carniola, Austria, garrison t. on R. Laibach, nr. Klagenfurt; match-making and pottery

ind.; p. 42,000.
L'Aigle, t.in dep. Orne, France, nr. Montagne, p. 5,564.
Laishev, t. (industr.), in Kazan govt., Russ., p. 7,840.
Laisterdyke, mftg. swb. of Bradford, W.R. Yorks,
Eng., p. 15,648.
Laitcheu, spt. t. on G. of Pechill, Shan Tung prov.,
China, p. 60,400.

Lai Yang, f. nr. Che-fu, prov. Shan Tung, China, p. 50,000. [U.S.A.; timber tr.; p. 170,400. Lake Charles, f. on the Calcasieu R., Louisiana, Lake City, on L. Pepin, Wabasha co., Minnesota, U.S.A., p. 4,590; also wint, rest. Columbia co., Florida, U.S.A., p. 4,474

Lake District, mns. dist. Cumberland and Westmortand Eng., 100145 record basuiful sconery includ

land, Eng.; tourist resort, beautiful scenery, includ. L.'s Windermere, Ullswater, Derwentwater, etc.

Lakewood, winter resort in the pine woods of Ocean co. New Jersey, U.S.A., p. 3,800.
Lakimpur, & M. Brahmaputra div., Assam, Brit. India; tea-growing; area 3,724 sq. m., p. 375,000; cap. Dibrugarh; also t. in Khan dist., Oudh, India; p. 7,840.
Lalin, t. in Pontevedra prov., Spain; agr. dist., gd. t.;
Lalitpur, formr. dist. Allahabad div. of N.W. Provs.,

ap, of r₁,500.

La Mancha, old Castillan prov., Spain, now part of Cudad Real, the Don Quixote country.

Lambaile, t. in Côtes-du-Nord prov., ar. St. Brieuc,

France, p. 4,545.

Lambayedue, def. N. Peru, area 17,939 sq. m., p. 129,480; Lambayedue, t. in same, p. 6,540.

Lambeth, ber. of S. London, Eng., industri, and residenti, p. 296,126.

Lambezzilett, d. in Finistère dep., France, nr. Brest,

Lambezenec, t. in Finistere dep., France, nr. orest, impt. tr., p. 13,127.

Lambourn, per. on R.L., nr. Hungerford, Berks, Lamego, t. in vine dist., nr. Oporto, Portugal, p. 9,50.

Lammermuir Hills, co. Haddington, Scotl., highest pk. Lammer Law, alt. 1,732 ft.

Lampedusa, ist. betwn. Malta and African cst., belopmers, t. Clarest, c. Clarest, p. 12.

belonging to Girgenti prov., Italy, area rij sq. m., p. 1,200.

Lampertheim, t. on R. Rhine, Hesse, Germany, Lampeter, mkt. t. Cardigansh., N. Wales, St. Davids.

Lampeter, mrt. t. Carunganan, ... [120,000. College, p. 1,802. [120,000. Lampong dist. (and t.) at S. extrem. Sumatra, p. Lamark, inland ω. Scotl., S. of Dumbarton and Stirling, area 885 sq. m., p. 1,447,125, rich in collieries and iron; co. t. Lamark, on R. Clyde, one of the Falkirk Burghs, p. 5,900; also t. in Ontario, Can., nr.

Falkirk Burghs, p. 5,900; also t. in Ontario, Can., nr. Perth, p. 2,847.

Lancashire, nifig, and industri. co. of N.W. Eng., adjoining Yorks, and extending W. to the Irish S., area x,857 sc. an., p. 4,768,474; Liverpool, the most impt. spt., and Manchester the greatest city; Cap. Lancaster, on R. Lune, p. 43,447; Penn., U.S.A., on Conestoga R., cotton mitg., p. 46,700; also t. in nat. gas regm. Fairfield co., Ohio, U.S.A., p. 10,000; also t. on R. St. Lawrence, Giengarry co., Ontario, Can., p. 5,264.

Lancaster Sound (50 m. wide) connects Barrow Strait, Lancasterld, f. nr. Melbourne, Victoria, p. 2,460.

Lan-Chau, or Lan Tcheu, c. of China, cap. of Kan-se

Lancfield, f. nr. Melbourne, Victoria, p. 2,460.

Lan-Chau, or Lan Tcheu, f. of China, cap. of Kan-se
prov., on the Hoang Ho R., grt. tr. centre, p. 100,000.

Lanchester, industri. f. nr. Durham, Eng., p. 4,500.

Lanciang, ser. in Sussex, Eng., 1,760.

Lanciang, ser. in Sussex, Eng., 1,760.

Landau, f. in the Haardt Mtns., Bavaria; clgar mfg.

tr. in wine and corn; here the carriages called after
the name of the town were first made; p. 17,500.

Landeck, wat, st. Silesia, Pruss., p. 2675.

Landea, dop. S. W. France, on Atlantic cst., area 3,615
Sq. m., agr., vineyds., minris., p. 567,000 (decreasing);
cap. Mont-de-Marsan.

Landport, sub. of Portsmouth, Hants Eng., p. (with

Landport, sub. of Portsmouth, Hants Eng., p. (with Portsea) 56,851.

Landrecies, fortid. £. dep. Nord. France, on R. Sambe, p. 450.
Landsberg, £. on R. Lech. Upper Eavaria, old gate-Landsberg-an-der-Warthe, £. in Pruss., mfg, and technical schools, p. 35.684.
Land's End, prom. extreme S.W. pt. Eng., on Landsbut, old £. on R. Bober, at foot of the Risenberge, Silesia, Pruss., p. 8,50.
Landskron, p. 6,50.
Landskron, mfg. £. on Moravian frontier, N.E. Landskron, sp£. on E. side of the Sound Sweden, beetroot sugar mfg., p. 14,50.
Lane End, Hccles, &ist. in Staffordsh., Potteries, Eng., p. 6,940. Landrecies, fortfd. £ dep. Nord, France, on R. Sambe,

p. 6,940. Langefjeld, min. group in Romsdal, Norway, highest

pk. 8, 100 ft. Langeland, isl. in Gt. Belt, Denmark, area 111 sq. m.,

Langeland, st. in Gt. Belt, Denmark, area xxx sq. m., p. 20,000; cap, Rudkubonng. [Effuttp, p. 13,500. Langensalza, industri. t. in Prusslan Saxony, nr. Langensalza, industri. t. in Prusslan Saxony, nr. Nassau, Prussla, p. 2,697. Langhirano, t. in Isaly, on R. Parma, p. 2,874. Langholm, mkt. t. Dumtnessh., Scotl., on R. Esk; cloth mills, p. 2,920. [Shire, Eng., p. 8,640. Langley, industri. dist. near Birmingham, Worcesterlangnau, t. in Switzerl., cant. Bem; chf. t. of the Emmenthal, p. 7,945. [Langreo, t. in Owiecto prov., Spain; hilly agr. and fruit-growing dist., with collery and iron industries; p. 16,470.

Langres, fort. t. in the Haute Marne, France, the anc.
Andematunum; cathedral p. 12,000. [Ip. 7,480.
Landside, sub. of Glasgow, Scotl.; battle, 1568;
Languedoc, old French prov., now divided; Languedoc and unites the Mediterranean with the R. Garonne at Toulouse. 16,870.

guenoc canni unites the Mediterranean with the R. Garonne at Toulouse.

Languidic, f. nr. Lorient, Morbihan prov., France, p. Lanjaron, mkt. f. nr. Granada, Spam. p. 4,350. [Eug. Lansdown, elevated dist. N.W. Bath City, Somerset, Lansdown, elevated dist. N.W. Bath City, Somerset, Lansdown, elevated dist. N.W. Bath City, Somerset, Lansdord, bor. Carbon co., Penn., U.S.A., p. 4,247.

Lansing, c. on Grand R., Ingham co., Michigan, U.S.A.; agr., imp. manuf., p. 31,299.

Lansingburg, f. Rensselaer co., New York, U.S.A.; clothing mitg., p. 13,500.

Lanzarote, isl. of the Canaries grp.; area 311 82, ms, p. La Paz, day Bolivia, traversed by the Andes, area 171,129 80, ms, p. 600,000; cap. La Paz (also cap. of Republic) p. 60,061. Also L. P., t. on Bay of L. P., Lower California, Mexico; pearifshery, p. 4,249.

Lapland, aer., of N. Europe, in Norway, Sweden, and Russia; extending from the Norwegian cst. to the White S.; mainly nath. and moorland, with many lakes; area 120,000 80. m.

lakes; area 230,000 sq. m.

La Plata, c. and 59t. of the Argentine Repub., below
Buenos Ayres, founded 1882; pres. p. over 100,000.

Many fine bldgs. and gt. tr. [p. 7,200. Laporte, summer rest. Laporte co., Indiana, U.S.A., Laporte, Chinese Customs sin. on border of Portuguese col. of Macao. [2,400.

Laprairer, t. on R. St. Lawrence, Quebec, Canada, p. La Presentation, t. nr. St. Hyacmine, Quebec., Can.,

p. 2,138.
Lar, f. in Persia, cap. of Laristan; impt. tr., p. 12,860.
Lara, f. nr. Melbourne, Victoria, p. (dist.) 2,897.
Larahle (or El Araish), port of N. Morocco; fortfd.;
impt. trade centre for Fez.

Laranie, c., cap. Albany co., Wyoming, U.S.A., on L.R., in cattle feeding regn., p. 9,500; University of

Wyoming here.
Larbert, par. Stirlingsh., Scoth, nr. Falkirk, p. 5400.
Larbett, par. Stirlingsh., Scoth, nr. Falkirk, p. 5400.
Laredo, cst. A. Santander prov., Spain: fortid., p. 5008; also c. on the Rio Grande, Webb co., Texas, U.S.A., large tr. with Mexico, p. 15,000.
Largo, fish. vil Fife, Scotl., on Largo B., F. of Forth; Alex. Selkirk. "Robinson Crusco" born here, 1696.
Large, mkt. A. Ayrsh., on F. of Clyde; battle 1203; p.

13,724.
Larissa, t. in Thessaly, Greece, on the Penelos (Salembria): formerly Turkish; p. 15,680.
Laristan, prov. S. Persia, bordering on the Persian G., number with a n. fabt. 100,000.

area 30,000 sq. m., mamiy mtns.; p. (abt.) 90,000.

Larkhall, mining t. Lanarksh., Scotl., nr. Glasgow; high bridge over R. Avon; p. 14,800.

Larkhana, t. Shirkapur dist. Sind, Bombay, India; centre of trade, with impt. manut.; p. 12,000. Larne, spt. nr. Belfast, Ireland, on Lough Larne, co.

Larne, 5st. nr. Belfast, Ireland, on Lough Larne, co. Antrim. p. 4,000 and Larneca, c. in Cyprus; the anc. Citum, prin. port of the isl., p. 8,000.

Lark R., Cambridgesh, Eng., 5r.6, (86 m.) of R. Ouse. Lasalle, c. Lasalle co., Illinois, U.S.A., in bituminous coal-field, p. 11,084. Harbour of refuge: p. 59,000.

Las Palmas, c. on cst. of Grand Canary; free port and Lassa, Tibet.—(See Lhassa.)

L'Assomption, c. nr. Montreal, Quebec, Can., p. 1,840.

Lasswafed, c. on R. Esk, nr. Edinburgh, Scotl., p. (dist.) 880.

Lastra a Signa, vil. nr. Florence, Italy, p. (dist.) Las Vegas, l. in New Mexico, U.S.A., nr. Santa Fé,

Las Vegas, Z in New Mexico, U.S.A., nr. Santa Ré, p. 3,170.
Latticunga, ch. f. prov. Leon, Ecuador; good tr.; nr. ruined pal. of the Incas and the volcano Cotopaxi; sevi. times destroyed by earthquakes, p. 10,000. [Lacdicia; famous for tobacco; p. sa, sa. Latakia, spr. in Syria, Asiatic Turkey, the anc. Latchford, tenuschip adjng. Warrington, on R. Mersey, Cheshire, Eng., p. 5,8,0.
Latton, mfg. 7, nr. Ornskiri, Lanca, Eng., p. 7,23.
La Trappe, famous Benedictine monastary, dep. Orne, Prance, nr. Mortagne.
Latrobe, 7, nr. Launceston, Tasmania, p. 2,360; also t. in Pennsylvania, U.S.A., p. 4,864.
Latronico, 7, in prov. Potenza, Italy, p. 4,124. [p. 4,500.
Lattaku, or Lattakoo, 7, in Bechuanaland, S. Africa, Lauban, 2 nr. Goriliz, Silesia, Pruss.; potternes,

Lauban, t. nr. Görlitz, Silesia, Pruss.; potteries, Lauden, L. nr. Goritz, Siesia, rruss.; porteres, linen and cotton milis, etc.; p. 14,200.
Lauder, burgh Berwicksh., Scotl., nr., the Leader, p. Lauderdale, beautiful valley of the Leader, W. Berwicksh., Scotl.
Lauenberg, dist. Schieswig, Pruss., area 457 sq. m., p. 50,000; oft. ft. L., on R. Elbe, p. 5,100.
Lauenburg, mftg. L in Pomerania, prov., nr. Coslin.
Pruss. p. v. ten.

p. 50.000; chf. t. L., on R. Elbe, p. 5100.

Lauenburg, mfg. t. in Pomerania, prov., nr. Coslin, Pruss., p. 11.470.

Laun, t. on R. Eger, N. W. Bohemia; metal indust.; Launceston, or Dunhevid, inkt. t. on R. Attery, N. E. Cornwall. Eng., p. 4.17; is soc. in Tasmania, on R. Tamar, Cornwall co., in prolific fruit-growing region; p. 24.000.

Lau Union, t. in prov. Marcia, Spain, nr. Cartagena and the Mediterranean; mineral dist.; p. 52.000.

Laurel, sm. industrial t. in Sussex co., Delaware, U.S. A., p. 3.847.

Laurel Hill, wit. in Queen's co., New York, U.S. A. Laurencekirk, mkt. t. in S. Kincardinesh., Scotl., p. 14.38.

Laurentide Mina, range running from Labrados Laurieston, dirt. S. of Giasgow, Lanarish., Scotl., p. 12.000.

Lautium, Aills (with silver and lead mines), Sotl. p. 12.000.

Lautium, Aills (with silver and lead mines), Sotl. p. Attica, Greece; worked anciently and lately revived. Lauriery, Larvig, or Lauriert, ph. Norway, on Skager Rack; gl. tr. and pop. hydro. res.; p. 11.000.

Lausanne, cap. Canton Vaud, Switzid., nr. Lake or Geneva; cathedral, and university; p. 50.000.

Lauvenn, R., of Norway, flows (200 m.) to the find at Lawag, t. in North Hocos prov., Lucon, Philippine Isla,; cotton centre; p. 37.000.

Lavagna, t. on Liguria, Genoa prov., Italy, on the

Laweg, c. in North Ilocos prov., Lucon, Philippine Isis; cotton centre; p. 37,000.
Lawagna, d. on Liguria, Genoa prov., Italy, on the Mediterranean; nath monumental ch. of San Salvadra; shipblidg, and marble quarries; p. 7,000.
Lawal, chr. d. Mayenne, France; bed-ticking manuf.; p. 32,000.
Lawal, chr. d. Mayenne, France; bed-ticking manuf.; p. 32,000.
Lawin, chr. d. Mayenne, France; bed-ticking manuf.; p. 32,000.
Lawine, c. on R. Mondego, nr. Combra, Portugal; Lawrence, c. on Kansas R., Douglas co., Kans., U.S.A., university, p. 17,000; also c. Essex co., Mass., U.S.A., nr. Merrimac; woolien and cotton gds; p. 85,892.
[co. Indiana, U.S.A., p. 4,300.
Lawrenceburg, mfg. c. on the Oho R., Dearborn Laxey, lead-mining vvi. with picturesque glen, nr. Laybach, os. Lalback, (r.v.).
[Douglas, I. of Man. Lazize, c. on L. Garda, nr. Verone, Italy, p. 3,204.
Leach, R. (d. m.). Bedford to Middlesex, Eng.; falls into R. Tham's.

Leach, R., Oxfordsh., Eng., trib. (15 m.) of Thames.

Lead, c. Lawrence co., S. Dakots, U.S.A., in Black Hills, mining dist., p. 7,810. Leader Water, R. of Scoti., affit. (ar m.) of R. Tweed, which it joins m. Meirose. Leadgate, industri. c. nr. Lanchester, Durham, Eng., Leadhill, t. in Boone co., Arkunsas, U.S.A., p. 2,746. Leadhill, mining vd. S. W. Laneries, Scoti., p. 1,484. Leadhill, mining vd. S. W. Laneries, Scoti., p. 1,484. Leadhill, and p. 1,484.

Leaning Creek, R. of W. Virginia, U.S.A.; also sml. t. on same; p. s.,46;
Leadwille, mining c. Lake co., in the Arkansas Valley,
U.S.A. (alt. ro,000 ft.), p. t4,500.
Leaning top, Leanington Priors, or Royal Leanington Spe. t. and health recort, Warwicksh., Eng.; iron foundries, brickworks, etc.; p. s6,71?
Lean-Tong.—(See Liao-Tung.)
Learmouth, heavier of Braxton par., co. Northumbert,
Learmed Plain, heavier of Braxton par., co. Northumbert,
D. (dist.) a 500.

Learned Plain, township Compton co., Quebec, Can., p. (dist.) a,80c.
Leatherhead, f. on R. Mole, Surrey, Eng., p. 5,49r.
Leavenworth, c. L. co., Kansas, U.S.A., on R. Missouri; railway centre and military post; p. 2,700.
Lehanon, mtn. chn. Syria and N. Palestine; highest pix. Dehr-el-Khadeb (10,052 ft.) and Timarum (10,339 ft.); also name of sanjak or prov., Turkey in Asia, 87 m. long; including mtn. range and valleys, p. (abc.) 400,000.
Lehanon, c. on Swatara Creek, L. co., Penn, U.S.A., iron mtg., p. 30,000; also name of fifty smir. places in various parts of the U.S.A.
Lehedian, f. in Tambov govt., Kuss., p. 6,500. Famous

Lebedia, f. in Tamboy govt., Russ., p. 6,500. Famous anc. monastery and gt. annual fair.
Lebedia, f. in Kharkov govt., Russ.; was hdqrs. of Peter the Great's operations against Mazeppa; tr. in

grain and cattle; p. 18,460.
Lecce (formerly Terra di Otranto), *** of Apulia,

Leace (formerly Terra di Otranto), **rev. of Apulia, S. Italy, area 3.293 aq. m., p. 710,000: cap. L., c. (tobacco manul.), p. 37,000.

Leaco, **f. in Como prov., Lombardy, Italy, at S.E. of L. of C.; silk, cotton, and iron industr.; p. (decreasing 6,100. Lech, **R. of Bavaris, trib. (177 m.) of the Danube, Lech, **R. of Bavaris, trib. (177 m.) of the Danube, Lech, **Lambard, **Lamb

Ladeberg, industri. £, in E. Flanders, Berguum, nr. Ghent, p. 11,500.

Lee, R. Cork co., Ireland, flows (50 m.) past Cork c. to Cork harbour; also R. of Kent, Eng., trib. (10 m.) of Thames; also par. subn. of S.E. London, adjoining Greenwich, residit, and industri. p. 15,840.

Leads, c. chi. seat of Eng. woollen manuf., W.R. Yorks, on R. Aire, p. 445,505; also par. nr. Maidstone, Kent, Eng. (with castle), p. 750.

Leek, mkt. and silk mfg. f. Staffs, Eng., p. 16,665; also t. in Holland, prov. Gröningen, p. 5,480.

Leek lat. nr. New Haven, on Long Isl. Sound.

also t. in Holland, prov. croningen, p. 5,486.
Leck Isl., nr. New Haven, on Long Isl. Sound,
Connecticut, U.S.A., p. 3,640.
Leenane, Bahing kemiest, Killery harbour, Galway,
Ireland.
Leer, ept. on R. Leda, nr. Ems. Hanover, Pruss.;
Leerdam, t. in S. Holland, nr. Dort, p. 3,946.
Leeston, t. nr. Christchurch, N. Zealand, p. (dist.) 2,470.
Leetonia, vtl. Ohio, U.S.A., nr. Alliance, Columbiana
co. p. 267.

Lestonia, vd. Ohlo, U.S.A., nr. Alliance, Columbiana Co., p. 3,675.
Lessuw St. Pierre, t. nr. Brussels, Belgium, nr. where the Battle of Waterlow was won, p. 3,794.
Lessuwarden, t. on R. Ee, in Friesland prov., Holland, gold and silver ware, p. 44,908.
Lesuward Isla, grp. of Brit. W. Indian tstt., total area 705 st. m., p. 12,700; comprises also—besides the Brit. possessus. of Antigua and Barbuda, Montserrat and Dominica, Virgin 18is., St. Christopher, Nevis, and Redonda—the French isls. of Guadelouse and Marie Galante, and various Dutch. Swedish, and Danish possus.; cap. of Brit. Lesward grp., St. John's, Antigua-Leghorn, Italian frow. on Mediterranean, area 126 sq. m.; also c. cap. same, p. (communal) nearly

rod,oco; straw hat manuf., hemp, marble, olive of, etc.; exports, shipbldg., and glass-making indust. Legnage, fort. f. in Verona prov., Lombardy, Italy, p. 9,500. Legnano, cotton and silk mfg. f. in Mian prov. Left, c., cap. Ladakh div., Kashmis st., Punjah. India, on R. Indus, elevin. 11,26 ft. p. 4,000. Lehanas, f. in the interior of N. Madagascar, p. 2,04, Lehe, mfg. f. on R. Weser, Hanover, nr. Remerhaven, p. 11,500. Cleisware.

Lenis, ming. 2. on R. Weser, ramover, nr. hierarch haven, p. 11,500. Lehight, R., Penn., U.S.A., trib. (120 m.) of R. Lehighton, Ser. on Lehigh R., Penn., U.S.A., in antiracite coal regn. of Carbon co. p. 3760. Leiah, f. in Dera Ishmali Khan dist., Punjab, India,

gd. tr., p. (with environs), 18,500. Leicestershire, inland (Midid) co., Eng., area Soc sq. m., mainly undulatg. agr. land, p. 476,603; cap. Leicester, industri. t. (hosiery mfg.) on R. Soar.

Leicester, industri t. (hosiery mftg.) on R. Soar, p. 257,243.
Leichhardt, R. of Queensland, flows to G. of Carpentaria; also name of W. sub. of Sydney, N.5.W. p. 27,000.
Leigh, mkt. and mftg. t. S.W. Lancash, Eng., ur. Leigh-on-Sea, vast. \$t. on Essex ext., Eng., at mth. of Thames, p. 7,716.
Leighlen, Old, \$sax. (with cathdri.) co. Carlow, Ireland, Leigh's Lake, communicating with Snake R., S. of the Yellowstone regn., Wyoming, U.S.A.
Leighton Buzzard, mkt. t. Bedfordsh, Eng., p. 6,784.
Leine, R., N.W. Germany, trib. (130 m.) of R. Aller.
Leinster, S. E. \$rrw. Ireland, area 7,620 sq. m., p. 1,500.
Leintwardine, vst. on R.'s Teme and Clun, HereLeina, industri. t. on R. Polzen, Bohemia, 42 m. N. of Prague, p. 11,340.

Prague, p. 11,340. Leipnik, mftg. f. nr. Brunn, Moravia, p. 5,473. Leipnic, or Leipzig, commercial, and university c. of Saxon, on R. Elster, flourishing indus., p. (with

Leipsic, or Leipzig, commercial, and university c. of Saxony, on R. Elster, flourishing indusc., p. (with incorporated suburbs) 588,000
Leipzig, and L. in Bessarabia, S. Russia, p. 3,479.
Leiria, c. Portugal, Estrenadura dist., p. 3,944.
Leisnig, t. on R. Mulde, nr. Leipsic, Saxony, p. 7,475.
Leiston, t. nr. Saxmundham, Sufloik, Eng., p. 2,622.
Leith, spt. and commercial centre, co. Midlothian, Scoth, on F. of Forth, suburban to Edihourgh, gt. shipping port for whiskey, p. 80,489.
Leith Hill, Surrey, Eng., nr. Dorking, alt. 993 ft., fine views. [on R. Elbe, Bohemia, Austria, p. 15,000.
Leitheritz, mfg. and tr. t. (brewg., malt, hops, etc.)
Leitomischl, t. on R. Lautschna, nr. the Moravian frontier of Bohemia, Jano factories, p. 8,500.
Leittrim, co. of Connaught prov., Ireland, area 613
sq. m. (decreasing) 63,557, agr., cap. Carrick-on-Shannon.
Leixoes, spt., and harbr. nr. Oporto, at mouth of R.
Le Maire, strait between Staten Island and Tierra dol Fuego, S. Amencra; also allernative name for Tasman Isls. in Solomon grp., S. Pacific.
Leman, Lake—(See Geneva.)
Leman Republic, name assumed by Central Vaud, Switzld., 1993; entd Helvetic Repub. as cant. L.
Le Mans, cap. of dep. Sarthe, France, hdqrs, of Army corps, the anc. Vindinum; linen manuf. and poultry tr., p. 7,000

Army corps, the ance of the armony poultry tr. p. 70,000 [p. 4,568. Le Mars, mftg. £ in Plymouth co., Iowa, U.S.A., Lemberg, infig. and university £ Austria, cap. of the crownland of Galicia, flourishing tr., p. 207,000 (in-

crownland of Galicia, flourishing tr., p. 207,000 (including garrison).

Lemgo, old t. (formerly of the Hanseatic League) in Lippe, Germany, meerschaum pipe mkg., p. 9,120.

Lemnos, 8t. of Turkey, S. of the Dardanelles in the Ægean S. (20 m. long), fertile valleys, sheep and goat farming, p. 27,20, mainly Greeks.

Lemvig, t. on Lym Flord, Jutland, Denmark, p. 2,120.

Lena, gt. R. of Siberia, rising in mtns. W. of Lake Baikal, and flowing 2,800 m. to the Arctic Oc. [Ireld. Lenadoon Point, at entree. to Killala Bay, co. Sligo, Lenczy, mtgt. t. nr. Warsaw, Poland, p. 17,423.

Lennep, industri. t. nr. Dusseldorf, Rhemish Pruss., p. 9,140.

p. 9.140. ennox, anc. Scottish &w., comprising Dumbartonsh. parts of Stirling, Perth and Renfrew.

Lennox Hills, range betwn. Dumbaston and Stirling. Scot).

Scoti.
Lennoxtowa, nr. Glasgow, co. Stirling, Scoti., p. 4.126.
Lennoxville, 4. on St. Francis R., Sherbrooke co.,
Quebec, Can., p. (of dist) 2,542.
d autum rest., Berks co., Mass.,

A autum rest, Berks co., Mass,
France ; fron foundries ; p. 20,400.
Canal, in dep. Pas-de-Caleis,
Lentini, or Leontini, in Syracuse prov. Sicily, Italy
(the anc. Leontini), on hill by Biviere L; citadel
destroyed by earthquake, 1693, p. 5600.
Loeben, old mining i in Styria, Austria; walls and

Loeben, old intning L in Styria, Austria; walls and towers; p. 11.230.

Leobechutz, industri. c. nr. Oppeln, Prusan, Silesia, on R. Zuina, formerly cap, of principality of jügemdorf; divided between Austria and Prusa in 1742. Car. riage bldg, glass-inkg, p. 12.500.

Leominster, nikt. L in Herefordah, Eng., in hopgrowing dist. nikt. L in Herefordah, Eng., in hopgrowing dist. p. 5.737; also mflg. t. in Worcester, Co., Mass., U.S.A.; p. 15.400.

Leon, old prive. (former kingdom), N.W. Spain; now div. into provs. of Salamanca, Zamora, and Leon; area. of latter 6,165 sq. ni; rich in minerals, p. 304.000, cap, L., C., fine Gothic Cathedrai, p. 25,300, cap, L., C., fine Gothic Cathedrai, p. 25,300, cap, L., C., fine Gothic Cathedrai, p. 25,300; also name of t. in Nicaragua, with large leather tr.; p. (with Indian sub. of Substiabs) 45,000.

Leonforte, L in prov. Catuna, Sicily, sulphur mines; p. 15,000.

p. 15,000. [p. 120,000. Leopoldstadt, sub. of Vienna, on isl. in R. Danube, Leopoldville, sub. above the cataracts on R. Congo, in

C. Free State; founded by Stanley.
Lepanto, spt. of Etolia, Greece, on G. of Lepanto;

Lepanto, 59t, or Erona, Greece, on G. or Lepanto; p. 6, 20; the anc. Naupactus.
Lepe, industri. £ in prov. Huelva, Spain; p. 5, 240.
Lepel, mftg. £ in govt. Vitebsk. Russ., p. 7, 487.
Lepton, industri. ½2r. nr. Huddersfield, W.R. Yorks, Hng., p. 2,999.
Lequetto, cat. £ nr. Bilbao, prov. Biscay, Spain, Lercara, £ in Palermo prov., Sicily, macaroni manuf.; callabur mines: p. 1220.

Lericara, £ in Palermo prov., Sicily, macaroni manuf.; sulphur mines; p. 15,293.
Laricl, cst. £ and summer rexf. G. of Spezia, Genoa, Italy; old castle, macaroni factories; p. 6,228.
Lerida, prov. Catalonia, Spain, on French frontier area, 4,772 sq. m.; sgr. and industri.; p. 285,000; cap. Lerida, fortif. c. on R. Segre, p. 22,000.
Lerina, Iles, de, sml. grp. of French \$15t. in Mediterranean opp. Cannes, included in dep. Var; St. Honoré and Sr. Marguerite are fortified. [p. 2,45z. LeRoy, 2t. in Genesee co., New York, U.S.A.; Larviga Fiord, \$16t of the Farce 1sls., Denmark.
Lerwick, bergh and co. £ of Shetland on isl. or Mainland of Pomona; fishy., woollen manuf. and tr. with Soutish ports; p. 4,654.

Mainland of Pomona; fishy., woollen manuf. and tr. with Scottish ports; p. 4.634.
Lesbos or Mitylene, Turkish isl. in the Ægean Sea; mtns. (Olympus, alt. 2.60 ft.) area 618 sq. m.; prod. olives, figs., lemons, oranges, grapes; also antimony and marbie; p. 170.000, mainly Greeks, ch. t. Mitylene.
Lesbos, Austrian isl. in the Adriatic, off Dalmatian cst., 43 m. long; grows grapes, dates, oflex, rosemary, etc.; p. 86.000; chf. t., l., naval stn., and arsenal, p. 3.830.
Lesbovatz, f. in Servia, nr. R. Veternitza; centre of hemp industry, dist. produces also flax and tobacco; p. 13.080.

[Lanarks, Scotl., p. 1, 2.50.

p. 13.080. [Lanarks., Scotl., p. 1.420. Lesmahagow, or Abbey Green, vil. on R. Nethan, Lesparre, i. in Gironde dep., France, nr. Bordeaux,

p. 4,660. Letitchev, f. nr. Kamieniec, Podolia, Russ., p. 6,388. Letters, f. nr. Castel-a-Mare, prov. Napoli, Italy;

Lettere, i. nr. Castel-a-Mare, prov. Napoli, Italy, p. 6,549.
p. 6,549.
Letterkenny, f. on R. Swilly, co. Donegal, Ireland, Leucadia, or Santa Maura, one of the Ionian Isix, area ros q. m.; mins.; Sappho's Leap, steep cliff, on 5, W.; produces grapes, currants, etc.; chf. t., Leucas (or Santa Maura) on N. cz.
Leucas, Cor Santa Maura) on N. cz.
Leucas, A. on R. Dender, Hainault, Seigium, p. 6,502.
Leucas, A. on R. Dender, Hainault, Seigium, p. 6,502.
Levas, French and Italian name for the E. cst. of the Medie, including Greece and Egypt.
Levas, salt-water leck, or arm of the sea on boundary of co.; Argyli and Inverness, Scotl., joins Loch Limbe; also beautiful L. (Loch Leven) in Kinross co., Scotl. (35 m. long by s m. wide) with 7 tsiz, (largest St. Sert's, ruined priory; on Castle, Isl.

Mary Queen of Scots was imprisoned in 1867; partly drained by R. Leven (14 m. long) to Largo Bay. Also name of R. Bowing from Loch Lonead to R. Clyde (10 m.) at Dumburton; of R., of Argyl and Inverness (17 m.), emptying into Loch Levent inlet first mentioned; and of R. of Lancs, Eng., flowing from L. Windermer to Morecambe Bay. Also burgh of Fifesh., Scotl., on Firth of Forth; limen-weaving industry, fine golf course; p. 6.529.
Levenshulme, industri. J. of Lancs, Eng., auburban to Manchester, n. 72.66

burgh of i-Pitesh., Scoti., on Firth of Korth i imenweaving industry, fine golf course; p. 6,559.
Levenshulme, industri. i. of Lancs, Eng., suburban to
Manchester, p. 13,60.
Levis, chi. i. Levis co., Quebec, Camada, on the St.
Lawrence R., opp. Quebec, landing pl. for Transatlantic passengers and ry. terminus, p. 8,000.
Lewes, mt. i. co. Sussex, Eng., nr. Brighton, p. 10,972.
Lewis, or Lewa, forms (with Harris) the long std. of
the Outer Hebrides, Scoti, area 770 sq. m.; embraces St. Kilda and several smaller isls. in cityl
par: p. fof Lewis alonel, 29,400, nearly all Geelicspeaking; chi. t. Stornoway. Industries; fashery,
cattle-rearing, etc.
Lewisburg, industri. bor. on Susquehanna R., Fenn,
mainly residit., p. 160,843.
Lewisburg, c. of Androscogin co., Maine. U.S.A., on
the A.R.; extensive cotton manuf., p. 26,247.
Lewiston, c. Fayette co., Kentucky, U.S.A., sear of
state university, in the Blue Grass tobacco and horserearing region, p. 35,093; also mfs; c. in Lafayette
co., U.S.A., nr. Boston, scene of the first conflict
between Brit. and American troops in the Revolution
of 1775; p. 4,000. [U.S.A., nr. Columbia, p. 3,590,
lexingtori Courthouse, vid. of L. co., S. Carolina,
Lexton, d. mining dist., Victoria, nr. Ballarat, p. 2,864.
Leyden, c. of S. Holland on the Old Rhine, so m.
N.N.E. of The Hague; seat of famous university;
woollen cloth and linen manuf.; resisted Spanlas
sege successfully 1573-74; birthplace of Rembrandt,
good modern it.; p. 55,000.
Leytand, mfs, d. nr. Freston, Lancs., Eng., p. 8,000.
Leyte, on of the Fhiliptin Isls, area 3,500 sq. ms. p.
Leyton, or of the Fhiliptin Isls, area 3,500 sq. ms. p.
Leyton, industry to the Danube below Vienna.

Leyths, or Leiths, R. flowing between Austria and Hungary to the Danube below Vienna.
Leyton, industri, and residenti. dast. Essex co., Eng., suburban to E. London, p. 124,795.
Leytonstone, ecclesiastical dast., N.E. of Leyton, Essex, Eng., p. 21,089.
Lisas, Lhassa, or Lassa, the "Holy" or "Forbidden". co of Tibet; contains the royal hill palace (Potala) of the Daia! Lama and the sacred shrine. (Cho Kang or Kilhording) of the image of Buddha. A place of pilgrimage, standing on a trib. of the Brahmapurta R., 11,000 ft. above sea-level, p. (est.) 45,000 (exclusive of priests in the numerous outlying monasteries). Entered by British expedition in 1904, and trading treaty secured. Like Arctic Oc. Liakhov Elas, large t.f. of the New Siberia group in Liau-tung, prov. of the Chinese Empire, mainly in Manchura (also called Mukden and Shing-King), area 37,850 sq. m., p. 2,20,000. Scene of much fighting in the Russo-Iapanese War, 1904-0c, Liau-tung Gulf, arm of the Yellow S., 129 m. long by 70 to 200 m. wide.
Liau-yang, c. Manchurla, China, in the Liau-tung Libau, 1944. of Russia, prov. Courland, on the Bakite S.; great tr. and many flourishing industries, p. 74,500.
Liberia, Republic of W. Africa. on the Guinea coast, area 45,000 sq. m., p. over 3,000,000, including 20,000 strillized procress; cash search of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c

Liberia, Republic of W. Africa, on the Guinea coast, area 45,000 sq. m., p. over 3,000,000, including 20,000 civilized negroes; cap. Monrovia. Exports coffee, palm oil, ivory, sugar, etc.
Libertad, maritime prov. N. W. Peru; area 18,765 sq. m., p. 150,000; cap. Trujillo. [burgh, p. 6,900. Liberton, per. of Midlothain, Scott, suburbn. to Edin-Liberty, industri. £: in Missouri, U.S.A., on White Fork R., Minite co., p. 3,854.
Libourne, port on R. Dordogne, Gironde dep., Francès; sin vineyd, dist.; p. 20,450.
Libya, anc. Greek name of Africa.
Libyan Desert, part of the Sahara, E. Wadai and Feszen.

PEARS' CYCLOPAEDIA.

Licata, 5th. at mth. of R. Salso, nr. Girgenti, Sicily; good harbr., sulphur exports; p. 24,660. [2,852. Lich, 2.00 R. Wetter, nr. Gicsen, Hesse, Germany, p. Lichtheid, c. in Staffordsh, Eng., cathedral; p. 8,677. Lichtenstein, mfg. 2. nr. Chemuitz, Saxony, p. 5,600. Lick Observatory, on Mt. Hamilton, nr. Santa co., California, U.S.A., nr. San José. Lick Observatory, on Mt. Hamilton, nr. Santa co., California, U.S.A., nr. San José. Lick Observatory, on Mt. Hamilton, nr. Santa co., California, U.S.A., nr. San José. [Ohio. Licking, R. Kentucky, U.S.A., trib. (200 m.) On R. Liddel, R. of Rozburgh and Dumfriessli., Scotl., trib. of R. Esk. [Marigny, Switzld. Liddes, Alpine vill. between the Great St. Bernard and Liddesdale, varley in Dumfriessli., Scotl., along English border and Liddel Water. Liddiofnd, \$2x*, Devon, Eng., on R. Lid, p. 2,750. [4,784. Liddiofng, f. on L. Wener, nr. Mariestadt, Sweden, p. Liebau, c. in Moravia, nr. Prerau, p. 4,250; also t. in Prussn, Silesla, nr. Liepnitz, p. 5,481. Lieben, mfg. dist. Karolinenthal, Bohenia, N.E. of Prague, p. (communal) 22,500. Liebenstein, or Sauerbrunn, wat. \$t\$. in Saxe Meiningen, Germany, p. 1,465. All Liebentenstein, sml. \$principality in the Tyrol, betwn. Voratherg and the Upper Rhime; area 68 sq m., p. 9,600; cap. Vaduz. Liege, \$prov. of Belgium, partly hilly, pastoral, forest, and minri, area 1,173 sq. m., p. 89,000; cap Lidege, c. at conflu of R.'s Meuse and Ourthe; cathedral.

Liege, prov. of Beigium, partly hilly, pastoral, forest, and minri, area u.r.y sq. m., p. 89,000; cap Luége, c. at conflu. of R.'s Meure and Ourthe; cathedral, university, many fine bldgs.; gt. tr. and pros. ind.; p. (nearly) 200,000.
Liegnitz, t. in prov. Silesia, Pruss.; vegetable-growing dist., piano and sewing-machine factories; p. 60,460.
Lierre, or Lier, boot-unitg. t., prov. Antwerp, Beignum, p. 23,540.
Liestal, cap. of the half cant. Basel-Stadt, Switzld., Lévin, mfg. t. nr. Bethune, Pas-de-Calass dep., France, adjoining Lens, p. 12,500.
Lievez, Riviere du, R. of Quebec, Canada, trib. of St. Lawrence, flows past Ottawa.
Liffey, R., Ireland, flows (50 ns.) from Wicklow through Kildare to Dublin Bay.
Lifful Ball, largest of the Loyalty grp. in the Pacific, French possessan. E. of New Caledonia.
Ligas, t. in Albay prov., Luzon, Philippine Isls.; rice, sugar, etc., p. 17,500.

Liguas, r. in Alouy prov., Lucon, rainipute list; rice, sugar, etc., p. 17,500.
Lignières, f. in dep. Cher, France, nr. Bourges, p. 3,468.
Ligny, f. nr. Bar-le-duc, dep. Meuse, France, p. 4,642; also sml. t. nr. Namur, Belgium, p. 1,648.
Ligouier, f. on Elkhart R., Neble co, Indiana, U.S.A., Liguita, terr. of N. Italy, betwn. the Mediterranean and Alps and Apennines, and adjar, the E. frontier of France, embracing the provs. of Genoa and Manyielo, (21) Maurizio (q.v.).

Ligurian S., part of the Mediterranean, N. of Corsica. Lika, R., of Croatia, flows along Austrian military frontier (50 m.), and sinks undergraft at Mt. Tuliba. Li-Kiang, c. Yun-Nan prov., China; great tr.,

p. 45,000.

R. Deule; seat of University, and chief centre of French linen and cotton manuf.; ch. of North Dame de la Trielle, finest in French Flanders, Lillo, £ in Toledo, prov. Spain, p. 2,940.

Lillydale, 942. nr. Melboume, in co. Evelyn, Victoria,

Lify Fontein, stn. on summit of Kamiesbergen, Namaqualand, Cape Colony, S. Africa.

Lima, ct. dep. Centra' Feru; area 1.4/60 sq. m. p. 300,000; also Linua c., cap. of Feru; in dep. and prov. same name on plain sloping from the Andees to the Pacific: university, great commercial and industri. activity, foreign fr. through pt. of Callao (7 m. W.), p. 118,000; also c. of Allen co., "Sido, on the Ottawa R., in petrol region, p. 30,506. Sido, on the Ottawa R., in petrol region, p. 30,506. Sido, contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the

manuta, n. 12,408.
Limbourg, frontier preva. Belgium, agr., stock fdgs, gin distillery, beet-root sugar manut.; area 931 sc. m., p. 976,000; cap. Hasselt.
Limburg, S. prev. of Rolland, bordering on Belgium

and Rhenish Pruss.; arable forest, meadow, pastoral and mineral; area 852 sq. m.; p. 340,000; chf. t.

and mineral; area 83; sq. m.; p. 340,000; chf. t. Mestricht (p.w.).
Limburg, f. in Hesse-Nassau, Germany, on R. Lahn, p. 680; also f. on R. Lehne, in Westphalia p. 6, 534.
Limerick, co. (maritime) of Ireland, prov. Munster, area 1,00; ac. m., p. 24,546. Industries; agr. declining!, fishery, wic.; cap. L., c. at head of Shannon est., most impt. port in W. of Ireland; good bacon tr.; p. 34,603.
Limmat, R. of Switzidi, trib., 80 m. of R. Aar, which it joins nr. Brugg.
Limoetro, f. in Pernambuco prov., Brazil, p. 8,670.
Limoges, ch. f. of the Haute-Vienne dep., France; famous for its still flourishing porcelain factories, and Kaolin paste preparation, p. 9,500.

Kaolin paste preparation, p. 95,000.

Limong or Port Limon, clif. Atlantic port of Costa
Rica; gt. collee export, p. 4,860. [Haute-Vienne.
Limousin, old prov. France (now Carréze) and port of
Limous, L. dep. Aude, France; hat, cap, and white
when manif. p. 0,160.

wine manuf., p. 9,140.
Limpopo, R. of the S.E. Africa, rising in S. Transvall col. and sweeping round on its N. frontier into Portuguese terr. and the Indian Oc., length 900 m., often called the Crocodile R.

Linares, f. in lead-miling dist. prov. Jacn. Spain, p. (decreasing) 36,500: also prov. in S. Chili. area, 3,489 sq. m. p. 155,000, cap. L., p. 8,000; also San Felipe de Linares, i. in Nuevo Leon, Mexico, p. 6,400. Lincoln, maritune co. in E. of Englund; generally flat, Lincoln, maritime co. in E. of Englund; generally flat, and in gt part femny, area 2,70s 50, m., p. 56,073; cap. Lincoln, c. on Witham, with fine calindral, p. 57,294; also c. cap Logan co., Illinois, U.S.A., p. 10,000, university; also c. of Khode Isi., U.S.A., p. 15,460; also t. Nebr. U.S.A. p. 42,073.
Lindau, fortid. /. on L. of Constance, Bavaria, p. 5540.
Lindein, sub. of Hanover, Pruss p. 26,840.
Lindistarne, alternate name for Holy Isl. off cst. Northumberland, Eng.
Lindia, f. on Persian G., good tr., p. 7,200.
Lindissay, f. in Ontario, Can, cap. of Victoria co.; saw mills, carriage works, p. 8,100.
Lindissay, f. in Ontario, Can, cap. of Victoria co.; saw mills, carriage works, p. 8,100.
Lindissay, f. in Chiralter, p. 23,500.
Lindissay, f. in Chiralter, p. 23,500.
Lindissay, f. on Einse de la Concepcion, f. in Cadiz prov. Spain; frontier post in Gibraltar, p. 23,500.
Lingan, f. on Eins Canal, Hanover Pruss.; university, iron toundres, p. 8,246.

Lingen, 2. on Luis Canal, Hanover Pruss.; university, iron foundries, p. 8,245.
Lingköping, or Ostergötland, dist. Sweden, on the Baltici; area 4,238 sq. in., p. 270,000; cap. L., mftg. t. nr. L. Roxen, p. 15,280.
Linlithgow, burgh (Falkirk grp.) of L. co., Scotl.; shoeming, and leather inds., p. 4,002; area of L. co.

shoemkg, and leather inds, p. 4,000; area of L. co. 120 93; m., p. 79,456.
Linnhe, Loch, anu of sea cs., of Argyll and Inverne Scotl., extending (9 m.) from Upper Loch Ell to Sound of Mull. [W.R. Yorks, Eng., p. 8,95a. Linthwalte, industri. Inship. S.W. of Huddersfield, Linton, per. on R. Granta, Lambridgash, Eng., p. 3,755. Lintons, minurg f. Victoria, nr. the Happy Valley, Ballarat dist., p. 1,745.
Lin-Tzing, c. on Yu Ho Canal, Shang-Tung, China, Lintz, or Linz, fortid.c. on the Danube, nr. Steyr, cap. of Upper Austria, p. (including Urahr on opp. bank of D.) 68,500; garrison, brewing, printing, and many manuf. [country, p. (est.) 39,000.

on D.) 68,500; garrison, brewing, printing, and many manuf.
Linyanti, f. in Centl. S. Africa, cap. of Makelolo Lipa, f. in Batangas prov., Luzon, Philippine Isls, centre of fertile agr. regn., p. 40,000.
Lipari Isls., volcanic grp. N. of Sicily, attached to the Italian prov. of Messina, total area 45 aq. m. p. 17,500; Lipari is the largest isl. of the grp., and its cap., also named L., has a p. 12,500 the anc. #Zolia, etc., they were occupied in turn by Saracens and Normans.
Lipetsk, industri. A on the Veroneal R., govi. Tambov, Russ., p. 15,560. [Franciscan monastery, p. 7,500.
Lippa, mkt. f. on R. Maros, Temes co., Hungary; Lippe, R. of Germany, (170 m. long) joins the Rhime at Wezel.

Lippe, or Lippe Detmold, principality Germy., enclo. by Hanover and Westphalia; area 469 sq. m., p. 15,000, cap. Detmold. Lippe-Schaumburg, see Schaumburg-Lippe.

Lippetadt, s. on R. Lippe, Westphalia, Germy., dis-tilling, tobacco mfig. : p. 13,140. Lirla, industl. s. in Valencia prov., Spain, on R.

filling, tobacco mtg.; p. 13, 140.
Lirla, industl. £, in Valencia prov., Spain, on R. Guadalaviar, p. 9,674.
Lisbon, c. in prov. Estremadura. on N. bank of Tagus est., cap. of Fortugal, p. 357,000.
Lisburn, £, on R. Lagan, nr. Belfast, Ulster, Ireland; linen mtg., cathedfi. p. 12, 172.
Liscard, a Cheshire Funsish, incl. New Brighton (q.v.).
Lischau, £, in Calvados dep., France; fine Norman cathedfi., the anc. cap. of the Lesvoii; fannel mtg., p. 17,240.

cathedri, the anc. cap. of the Lexovii; fannet mftg., p. 7,940.
Liskesard, mkt. £ Cornwail, Eng.; woollen mill, foundry, Lisle, gold-field £. nr. Launceston, Tasmania, p. (dist.) 2,807.
Lismore, mkt. £. on R. Blackwater, co.'s Cork and Waterford, Ireland, p. 1,850.
Lissa, Austrian 1st, Dalmatia prov., in the Adriatic (17 m. long) the anc. Issa; famous for its wine; ch. t.'s Lissa (gd. harbr., p. 5,340) and Comisa (p. 4,664).
Lissas, or Lessano, industri. £. in prov. Posen, Pruss., founded by the Moravians in the 16th Cent. p. 1,4,560.
Listowel, £ on R. Feale, co. Kerry, Ireland, nr. Tralee, p. 2,000.

Listowel, 4. on R. Feale, co. Kerry, Ireland, nr. Trätee, p. 9,950.
[Int. Tyre. Litany, R. of Palestine (100 m.) flows to Mediterranean, Litchfield, c. in natural gas and petrol regm. Montgomery co., Illinois, U.S.A., p. 6,100.
Lithang, s. in Tibet, nr the Chinese border, p. 9,400.
Lithariand, or Waterloo, subrn. tunsiap, Liverpool, Lancs, Eng., p. 24,670.
Lithgow, L. in Cork co., N.S. Wales; mining, pottery, Litharia, anc. terr. and grand duchy, Europe; formerly enclo. by Poland, Pruss, Courland and Russ. Passed to Poland in 1501 and finally became absorbed by Russia and (to a small extent) Prussia.
Litin, s. on Bug R., Podolia govt., Russ., old industries; p. 11,500.

Litfa, £ on Bug R., Podolia govt., Russ., old industries; p. 11,500.
Littleborough, £, nr., Rochdale, Lancs, Eng.; cotton, woolen and dyeing industries; p. 11,702.
Littleborough, £, on Mississippi R., Minnesota, U.S. A., timber tr., p. 7,560; also mfg. £, on Mohawk R., Herkimer co., New York, U.S. A., p. 12,126.
Littlebampton, pst. and cst. rest. at mth. of R. Arun, Sussex, Eng.; p. 8,351.
Little Hulton, industri. £ in Lancash., Eng., nr. Bolton, Lancash., Eng. p. 5,107.
Littleberry, industri. £ and residtl. £ nr. Bolton, Lancash., Eng. p. 5,107.
Littleberry, ar. Cambridgsh., Eng., nr. Ely, p. 6,434.
Little Rock, £ of Arkansas, U.S. A., cap. of Pulaski co., on A. R.; oll and oil-cake manuf.; p. 6,6480.
Little Russia, part of Russ., comprising govts. of Chernigov, Poltava, Kiev, and Kharkov; area 80,256 sq. m., p. 10,000,000.

Chemigov, Pottava, Klev, and Kharkov; area 80,226 sq. m. p. 1000,000.

Missouri. Little Sioux R., Iowa, U.S.A., flows (300 m.) to the Littleton, mftg. t. in New Hampsh., U.S.A., on the Ammoniosuc R., p. 5,460.

Little Woolton, industri. par. nr. Prescot, Lancash., Litynak, mfg. t. in Podolia govt., Russia, nr. Kamieniec, p. 9,384.

Livadia, t. in Bosoita, Greece, p. 4,846.

Liverpool, t. and 19t. on R. Mersey, Lancash., Eng., jimmense shipping commerce and manuf.; cathedral, splendid docks; p. 746,566. [Yorks, Eng., p. 14,660.

Liversedge, woollen mfg. t. nr. Dewsbury, W.R.

Livingston, industri. t. in Montana, U.S.A., on the Yellowstone R. p. 4,865 also name of numerous

Livingston, industri. A. in Montana, U.S.A., on the Yellowstone R., p. 4,86; also name of numerous other places in various pts. of the U.S.A. Livingstone Falls, externact on R. Congo, Africa. Livingstone Mtms., range and upland plateaus of Germ. E. Africa, nr. L. Nyassa, highest pt., 9,600 ft. Livingstonia, mission stars. W. shore of L. Nyassa, E. Africa.

S. ATRGA.
Livay, mfg. f. nr. Orei, Russia, on R. Sosna; p. 28,540.
Livana or Livland, Baltic prov. of Russ., includes isl.
of Osea, farea 18,728 om. p. 1,300,000: ngr., dairying and many manut.; cap. Riga (q.v.).
Livorno, t. in Novara prov., Italy, nr. Vercelli, p. 6,550.
Lizuri, pft. nr. Argostoli, Cephalonia, in the Ionian

Sea, p. 5.850. [wall. Lizard Point, C. southernmost pt. Eng., S.W. Corn-Llagostere, £, in prov. Gerona, Spain, p. 4.467. Llanberis, £, in Carnarvonsh., Wales, nr. Bangor.

tourist centre at base of Snowdon mtn., p.

J. Co.

Lianbister, Jer. in N. Radnorsh., Wales, p. 2,668.

Lianbister, Jer. in N. Cardiff, on R. Taff, Giamorgansh.,
S. Wales, cathedral, p. 1,800. [Wales, p. 1,938.

Llandlo, mkt. t. on R. Towy, E. Carmarthensh.,
Llandovery, ber. N.E. Carmarthensh., Wales, p. 1,993.

Llandrindod Wells, health test. mid-Radnorsh.,
Wales, medicinal waters, p. 2,779.

Llandwan, seaside rest., Carmarvonsh., Wales, p.
Llandwan, per. on R. Teif, Cardigansh., Wales, p. 2,040.

Llandysail, par. on R. Teib, Caruganan., waies, p. 2,040.
Llanelly, spt. Carmarthensh., Wales, collegiate establishts., p. 32,077; one of the Carmarthen Boroughs.
Llanfair Caerinion, mkt. t. on R. Elinon, Mont-Llanfair Caerinion, mkt. t. on R. Elinon, Mont-Llanfairfechan, t. nr. Conway, Carnarronsh., N. Wales; p. 2,073. [mouthsh., Eng.; p. 4470.
Llanfrechia, Upper trunsible nr. Caerleon, Mont-Llanfyllin, bor. nr. Cowestry, Moutgomeryth, Wales; one of the Montgomery Boroughs; p. 1,623.
Llangadock, far. nr. Llandilo, Carmarthensh.
Wales; p. 3,047.

Wales; p. 2,047.
Llangefini, nikt & Anglesey, Wales, nr. Amiwch; p.
Llangelini, nikt & On R. Dee. Denbighsh., Wales;

Liangollen, nikt. 4. on R. Dee. Denbighsh., Wales; Liangollen, nikt. 4. on R. Severn. Montgomeryth. Liangleses, bor. on R. Severn. Montgomeryth. Wales; one of the Montgomery Boroughs; p. a,594. Liano Estacado, or Staked Plain, New Merico and N.W. Texas, U.S. A., area 0,000 sq. m. Lianstephan, vii. at mouth of R. Towy, Carmarthensh., Wales; p. (dist.) 2,195. Monmouthsh., Eng., in colliery dist.; p. 7,059. Liantrasaat, bor. Chamorgansh., Wales. nr. Cardiff, p. 12,542; one of the Cardiff Boroughs. [D. 2,573. Liantrasaat, bor. Chamorgansh., Wales. nr. Cardiff, p. 12,542; one of the Cardiff Boroughs. [D. 2,573. Lianwrat, mitt. 4. on R. Conway, Denbighsh., Wales; Lerena, old walled t. Barcelona prov., Spain, nr. Seville, frontier; p. 6,256. Loanda, c. (p. 14,500 de Angola, Portuguese W. Africa; cap of dist. same name; p. 195,664. Loando, rgym. on W. cst. Africa, divided between France, Portugal, and Belgium; cap. Loango; p. 12,000.

p. 12,000.

p. 12.000.
Loanhead, burgh 5 m. S E. Edinburgh, Scotl., p. 3.483.
Loanhoad, burgh 5 m. S E. Edinburgh, Scotl., p. 3.483.
Loano, sml. 1 on G. of Geneva. Italy, p. 4.118
Loban, 7 on the L. Water, nr. Hautzen, Saxony;
dye-works, piano factory; p. 10,260.
Lob-Nor, or Lop-Nor, L. system in Gobi desert, E.
Turkestan, Central Asia; alt. 2,200 ft., length 100 m.,
width 50 m.; receives Yarkand and Tarim R.'s from
W.; no outlet.
Locarno, 4 on Lago Maggiore, Switz., p. 2864.

W.; no outer.

Locarno, t. on Lago Maggiore, Switz., p. 2,894.

Lochaber, mtns. dist. Scott., S. Inverness; 33 m. by
21 m.; contains Ben Nevis

Lochcarron, fishing vd. Ross-sh. Scott., p. 1,500.

Lochce, N.W. suburb of Dundee, c. Scott., p. 13,460.

Loches, t. on R. Indre, dep. Indre-et-Loire, France,
nr. Tours; old château, once a royal dwelling, later a

State price, p. 2,500.

nr. Tours; old château, once a royai uwening, manastate prixon, p. 2000.

Lochgelly, bargh of Fifeth, Scotl., nr. Dunfermilne; ironwks, and colliery disk.; p. 2076.

Lochgliphead, L. at head of L. Gilp, Argylish, Scotl., p. 2,055. One of the Dumfires burghs.

Lochmaben, burgh nr. R. Annan, Dumfriessh, Scotl., p. 2,055. One of the Dumfires burghs.

Lochmagar, mrs. of the Scottish Highlands, nr. Ballater, Abertleensh., alt. 2,780 ft.

Lochy, Loch, L. Inventess.in, Scotl. (10 m. long), part of the Caledoniun Canal; R. Lochy flows to Fort William (8 m.) trom S. end of the loch.

Lockerbie, burgh of Annandale, Dumfriessh., Scotl.;

Fort William [8 m.] trom S. end of the loch. Lockerble, bargh of Annandale, Dumfnessh., Scotl.; inpt. sheep mkt. p. 2.455.
Lockhaven, c. of Clinton co., Penn., U.S.A., on Susquehanna R.; timberyards: p. 7.450.
Lockhot, spt. China, on E. coast of isl. Hainan; gt. tr. centre: p. 9.1400.
Lockhot, vtl. of Ohio, U.S.A., nr. Cincinnati, p. 2.668.
Lockport, rf., centre; pes Plaines R., Will co., Illinois, U.S.A., p. 3.14. Also mitg. c., cap, Niagaro, New York, U.S.A., on Eric Canal, p. 3.420.
Lockwood, mftg. c. nr. Huddersfield, W.R. Yorks, Eng., p. 10.864.

Eng., p. 10,864. [Industry; p. 12,134. Locie, Le, & cant Neuchatel, Switz.; watchmaking

Locerotondo, f. (industri.) in Bari prov., Italy, p. 7,840. Lodève, f. dep. Hérauli, n. Montpellier, France; cloth mfig., cathedral; p. 11,469. Lodi, c. on R. Adda, prov. Milan, Italy; famous for Parmesan cheese and majolica ware; cathedral;

Lodd, c. on K. Adda, prov. Misan, 1211; annous in Parinesan cheese and majolica ware; cathedral; p. 26,000.
Lodd Vecchio, old t. adjoining Lodd, Italy, p. 3,500.
Loddre, waterfall nr. Keswick, Cumberland, Eng.
Lodg, textile infig. t. govt. Fjortkow, Russn. Poland, the "Manchester of Poland," p. 394,850.
Loffoden, or Leffoten Islas, storm-swept grp. off N.W. coast Norway, stretching 175 m., mainly nitns, p. 40,000, engaged chip, in cod and herring fishy.
Loffuss, t. in N.R. Yorks, Eng., nr. Saltburn-by-the-Sea, p. 8,922.
Linhab, by Mormons, p. 6,100.
Logans, c. of Cache Valley, Utah, U.S.A., chip, Logansport, mfg. c. on the Wabsah and Erie canal, Cass co., Indiana, p. 17,986.
Logo, or Loko, dist. Brit. W. Africa, N.E. Sierra Leone; cap. Porto Logo, or Loko.
Logrono, Ind. **prov. N. Spain, area 1,945 sq. ni.; Castilian wine-growing dist.; p. 180,500; cap. L., t., on R. Ebro, spactous bull-ring, p. 20,000.
Lohardaga, *dist.* Chota Nagpur div., Bengal, Brit. India; area 2,140 sq. m., p. 1,100,500; cap. Ranchi.
Loharu, nat. **state* Punjab, India, adjg. Rajputana, area 208 sq. m. p. 1,550. Nawab of Afghan descent; cap. Loharu, t. p. 2,000.
Lols, R. France, dep. Eure-et-Lori (150 m.), trib. of R. Sarthe.

[from Cevennes Mts. to Atlatte.

[from Cevennes Mts. to Atlat.tic. Sarthe. [from Cevennes Mts. to Atlattic. Loire, R. France, largest in country, flows (620 m.) Loire, dep. Centrl. France, area 1,853 sq. m. p. 645,000, agr., potato growg., vineyds., mining, and mitg.; cap. Monturson.

Loire, Haute.—(See Haute Loirea)
Loire Inferieure, dep. W. France, at mth. of R. Loire, area 2,605 sq. m., p. 658,000; agr., fruit-growing, etc.; cap. Nantes.

Loiret, dep. Centrl. France, area 2,605 sq. m., p. 562812; agr., vineyds. distilleries. mfs.; cap. Sastes.

303,812; agr., vineyds., distilleries, mfg.; cap. Orleans. [274,850; agr.; cap. Blois. Loiret-Cher, dep. Centrl. France, area 3,479 sq m, p. Loitz, t. on R. Peene, nr. Stralsund. Pomerania,

Loitz, f. on K. reene, in Sunassus [p 10,465].
Lojan, or Loxa, f. in Ecuador, famous for cunciona,
Lojana, industri, f. nr. Boiogna, Italy, p. 5,874.
Lokeren, flourissing mfg. f. in E. Flauders, Belgium,
on R. Durme, p. 20,881.
Lombardy, terr. Northn. Italy, lying in the valley of
the Po, area 9,386 s.j. in., p. 4,800,000; pastoral and
vintage country, with many summer resorts, among the

vintage country, with many summer resorts, among the Alpine valleys; includes provs. of Como, Cremona, Mantua, Milan, Pivia, Bergamo, Brescia, and Sondrio. Lombok, one of the Lesser Sunda Isls. in the Malay Arch., area 3,126 sq. m., mins. (peak of Lombok, 11,810 ft., volcanic). p. (with Bali) over 600,000; under Dutch rule; cht. t. Mataram.

under Dutch rule; cnl. t. Mataram. Lomja, or Lomzha, godt. of Kussn Poland, N.E. of Warsaw, p. 683,000, industries; potteries, breweries, etc., cap. L. on the Narev. K. p. 27,400. Lomond, Loch, largest Scottish  $L_n$  in co.'s Stirling

and Dumbarton, over 20 m long, area 27 sq. m., contains thirty isls., largest Inchinurun; waterfall, Inversnald; tourist centre for the Trossachs; Ben Lomond ascended from Rowardennan,

Lomond Hills, co.'s Kurross and 1-1fe, Scotl., alt. 1,713 ft. and 1,471 ft.

1,713 it, and 1,471 it.

London, cap. c. of England, metrop and seat of govt. of
Brit. Empire; situated on R. Thames, mainly in co.'s
Middlesex and Surrey, but extending into Kent and
Essex. Comprises thirty parly, bors., and has a p.
(including immediate subn. area surrounding these) including immediate subn. area surrounding thosely of 5,000,000; p. adm. county, 4,522,057 - 370, city, 19,657. Exports exceeding a quarter of those of the entire kingdom. London, on R. Thames, Ontario, Can., is a G. with p. (including subs. of London Jin., and Ealing), 49,500.

Londonderry, maritime co., Ireland, Ulster prov., area 876 sq. in. p. (decreasing) tan four aur 8mid february.

816 sq. in., p. (decreasing) 140,621, agr. and fishery; cap. L. (or Derry) c. on R. Foyle, flourishing shirt-

making indust., p. 40,799.
London, Bast, pt. at inth. of Buffalo R., Cape Colony S. Africa, p. 7,680.
Longa, uninhab. tst. of the Hebrides grp., rk m. E. of

Long Branch, c. Monmouth co., New Jersey, U.S.A., pop. sesside res., for New York, with drive (Ocean

pop. seaside res., for New York, with drive (Ocean Averue), 5m, long, res. p. 9,5%.

Long Baton, mfg. f. nr. Derby, Eng. p. 19,215.

Long Gaton, mfg. f. nr. Derby, Eng. p. 19,215.

Long Gaton, mfg. f. nr. Derby, Eng. p. 19,215.

Long faland, part of the State of New York, U.S.A., div. from Connecticut by Long Isl. Sound, and from the mainland of New York and Manhattan Isl. by Long Isl. Sd. and the East R.; bordered on the W. by N.Y. Bay; it has many pop. wat. places: 118 m. long and 23 m. wide: L. I. has an area of 1,6% aq. m. long and 23 m. wide: L. I. has an area of 1,6% aq. m. and comprises three co.'s, Suffolk, Queen's, and King's, the latter containing Brooklyn city. Long Island city, sep. from Brooklyn by Newtown Creek, is now incorporated with New York City; has many mfis., and a p. 0f 56,4%.

Long, Loch, arm of sea (17 m.) co.'s Dumbarton and Longmeadow, sml. industr. h. in Mass., U.S.A., p. 28,64.

Longridge, mftg. t. nr. Preston, Lancs., Eng., p. Long Sutton, t. nr. Holbeach, Lincolnsh., Eng., p.

[37,481.

2,87.
Longton, mkt. t. in the Potteries dist., Staffs, Eng., p.
Long View, industrl t. in Texas, U.S.A., nr. the
Sabine R., p. 4,786.
Longwy, fort. t. dep. Meurthe-ct-Moselle, France,
iron mmes and furnaces; p. 12,040.
Lonigo, t. on the R. Gue, prov. Vicenza, N.E. Italy; p.
Lons-le-Saunier, anc. t. cap. dep. Jura, France; salt

springs; p. 12,160.
Loo Choo, or Lu Tchu (sometimes called Liu-Klu), chain of 52 isls. belonging to Japan, strett hing S.W. to Formosa. Cht. pt. Napa, on Okmawa isl., total p.

450,000; area 950 sq. m. oodiana.—(See Ludhiana.)

Looe, B., fishg. t. on R. Looe, Cornwall, Eng., p. 1,500; Looe, W., cst. t. on Looe B., Cornwall, p. 1,026.

Licon, c. in dep Alsne, France,; military post and citadel, p. 10,208 [Shannon Loop Head, cape S.W. of co. Clare, Ireland, side of R. Loos, extensive dist. of Indo-China, traversed by Mckong R, and surrounded by Yun-Nau, Tonquin,

Siam, and Burma; p. [est.] 1,500,000, Loos, & nr. Lille, prov Nord, France, p. 6,846. Lorain, on Lake Frie, Lorain co., Ohio, U.S.A., good

coal tr., p. 28,460. Lora del Rio, t. nr. Seville, Spain, 8,140.

Lorca, mftg. t. Murcia prov., Spain; bishop's palace;

p. 62,400. Lord Howe Isl., in S. Pacific (7 m. by 1 m.) between Australia and New Zealand.

Lorenzo Marques, or Lorenco Marques, pt. and cap. of Portuguese E. Africa, on Delagoa Bay; p. (dist.)

aroruguese E. Arnca, on Locagoa Bay; p. (disc.)
3,000 Europeans, 200,000 taitives.
Loreto, intornor dep. Peru; area 32,727 sq. m., p.
720,000; also a fanous pilgriminge place and see in
Ancona prov., The Marches, Italy; p. 5,000. The
shrine of the Virgin's House is visited annually by

50,000 pilgrins.

Lorient, military port. Morbihan prov. France; govt. shipbldg, yds. and docks; p 50,000.

Lormes, f. m. Nevers in Nievre dep., France, p. 3,389.

Lormes, I. nr. Nevers in Nievre dep., France, p. 3,500. Lorne, dry. between Loch Leven and Loch Awe. Argyllsh., Scotl.
Lorrach, I. in the Wiese valley, Baden, Germany; calco printing, dyeing, etc.; good wine tr.; p. 12,10. Lorratine, old prov. of France, capt. by Germy. (See Alsace-Lorraine.)

Alsace-Lorraine.)
Los Angeles, c., cap. Los Angeles co., California,
U.S.A., in orange and grape-growing dist.; pop.
winter resort; p. 30,000; also t. nr Chuh, cap. of
Biobio prov., p. 10,000.
Losonez, industrl. t. Nogrod co., Upper Hungary;
enamelling and glue factories; p. 10,000.
Lossemouth, hurgh on the Lossie R., Elginsh., Scot.;
boatbidg, and fishg.; p. 4,207.
Lossnitz, mulstrl. t. nr. Chemnitz, Saxony, p. 5,854.
Lostwithiel, mkt. t. in Comwall, Eng., nr. Truro, p.
1.772.

ot R., S. France, trib. (272 m.) of R. Garonne. Lot, dep. S.W. France, area s.or8 sq. m. Sheep a.d.

cattle rearing, nut-growg.; p. (greatly decreased) say, or cap. Cahors.
Lots, coast f. sr. Concepcion, Chill, p. 4,890.
Lot-et-Garonne, ssy. S. W. France, area, 2,079 sq. m.
Vineyds., agn., stock-rearing; p. (decklining) 276,210;

cap. Agen.
Lothians, The Scottish dist. S. of Firth of Forth,
embracing co.'s Haddington, Edinburgh, and Linlithgow.

Lotzen, t. nr. Gumbinnen, E. Pruss., p. 5,460. Loudeac, t. in prov. Côtes-du-Nord, France, nr. St.

Brieuc, p. 6.140.

oughborough, hosy. mftg. f., Leicestersh., Eng., p. oughres, mkt. f. on Lough Rea, co. Galway, freland, Fforest: p. 5.433.

Loughea, mkt. 6.0 Lough Rea, co. Galway, Ireland, p. 2,560.
Loughrea, mkt. 6.0 Lough Rea, co. Galway, Ireland, p. 2,560.
Loughton, £, in Essex, Eng., on border of Epping Louisiana, £t. (s.) of U.S.A., area £4,720 sq. m., p. 4,700,000 (one-half coloured); agr., tobacco, cotton, sugar, timber, minris., and manuf.; cap. New Orleans (g.*v.) Also c. of Pike co., Missouri, U.S.A., on R. Mississippi; p. 5,320.
Louisville, c. of Jefferson co., Kentucky, U.S.A., on Ohlo R., at the Falls; many thrvg. manuf.; p. 225,000.
Exports flour, pork, tobacco, etc.
Louic, £, in Faro dist., Portugal; esparto grass tr., and porcelain manuf.; p. 24,600.
Lourches, £, nr. Cambrai dep. Nord, France, p. 4,385.
Lourdes, £, nr. Cambrai dep. Nord, France, p. 4,385.
Lourdes, £, nr. Cambrai dep. Nord, France, p. 9,400.
Visited by 500,000 pligrims annually.
Louth, mkt. £, on R. Lud, Lincolnsh, Eng., p. 9,883, Also maritime Co., of Leinster prov., Ireland; area 316 sq. m., p. 63,402 (decreasing); much turf, bog, and barren land; salmon fishe, prosperous; cap. Dundalk (g.v.).

Durdalk (g.v.).

Louvain, impt. mfg. 4. (breweries) Belgium, Brabant prov., 27 m. E. of Brussels; famous university; p. 45,408.

45,405.
Louven, R. (100 m.), of Norway, flows to Skager Rack.
Louviers, L on R. Eure, nr. Kouen, France; cloth
manuf.; p. 104,86.
Louza, L in Beira dist., nr. Coimbra, Portugal, p. 5,140.
Lovell, L nr. Hobart, Tasmanus; p. (dist.) 2,984.
Lovere, L on L. Iseo, Italy; p. 3,237.
Low Archipelago, or Tuamotu, grp. of sm. 1615. on
the Pacific, S. of Marquesus; clinely coral. French

protectorate. Lowell, c. at jn. of Merrimac and Concord R Middle-sex co., Mass., U.S.A.; many manufs.; p. 206,480. Lowenburg, old c. in Silesia, Pries., gypsum, textile

Lower Brixham, est. & S. Devon, Eng., ur. Torque, b.

Lower Beington, industri., in Chesmier, Eng., nunLower Brinkam, cst. S. Devon, Eng., nr. Torquay,
p. (idst.) 8,460.
Lower Mitcham, S. suburb of Adelaide, S. Australia
Lowestoff, wast. A and spt. Suffolk, Eng., gt. fishg,
industry, p. 33,760.
Low Moor, sist. (extensive ironwks.) S.E. of Bradford,
Lowthers The, or Leadhills, misst. Dunfries and
Lanark, Scotl., highest pt. 2,403 ft.
Lowtherstown, or Irvinestown, sml. s. nr. Enniskillen, co. Fermanagh, Ireland.
Lowville, wid. New York, U.S.A., on Black R., Lewis
Loyalty Isla., grp. in S. Pacific, belonging to France,
and included in the New Caledonia col., p. 15,000.
Lozère, sip. S.E. France, traversed by Cevennes
mtns., area 1,905 8q. mp. p. 12,000 (much declined),
agr., silkworm-rearing, stock-raising; cap. Mende.
Lu, s. in Pledmont, Italy, nr. Alessandria, p. 4,488.
Lualaba, name of the upper part of the Congo R.,
Congo Regt, Africa.
Luang Prabang, tank Me Kong R., cap. of the
Lacs state, same name, French Indo-China, many
pageodas, p. 20,0000.

Lace state, same name, French indo-Luna, many pagodas, p. 20,000.

Lubea, & in Pampanga, prov. Luzon, Philippine Isls.,

Sugar-growing and alcohol distilling, p. 21,000.

Lubea, st. Washington co., Maine, U.S.A., p. 3,240.

Libbeck, free state of the German Empire, area 215

sq. m., embracing Lübeck co., the t. of Travemünds, and various neighbouring villages. Lübeck co. stands on the R. Trave, to m. above its entrance to the B. of L., an arm of the Baltic betwn. Holstein and Mecklemburg. A famous old Hanse t. with flourishing commerce, extensive industries, and many

mourising commerce, extensive measures, and many wealthy institutions; p. 98,400.

Lublin, prov. Russn. Poland, covered with forests, mainly a thinly poplid, plan, area 6,499 sq. m., p. 1,290.000; cap. L. c. on R. Bistritza, p. 51,240.

Lubnarg, Loch, Perthsh., Eng., drains to R. Teith by the 1 am.

1. 1850.000 cap. L. c. om R. Bistritza, p. 51,230.
Lubnaig, Lock, Perthsh., Eng., drains to R. Teith by the Leny.
Luhal, old 2. in Poltava govt., Russia, gardening and jam making, p. (with suburbs) 73,000.
Lucca, c., cap. of Lucca prov. Tuscany, Italy, nr. Pisa, cathedral, many churches, jute manuf., tobacco, silk, cotton, and oil refining industries, p. 80,460. [Scotl. Luce Bay ito m. iong) off Irish Sea, 5. of Wigtownsh., Lucena, mftg. 1., Cordoba prov., Spain, matches, brandy, wine, etc., p. 20,450; also sml. 1., same name, nr. Castellon de la Plana, p. 3,650.
Lucera, c. in prov. Foggia, Italy, the anc. Luceria, castle, cathedral, p. 16,600.
Lucerne, cant. Switzld., area 579 sq. m., mainly arable and pasture, with a few vineyds., loftiest pt., Platus (6,095 ft., intn. ry.). Right ridge, opp. side of lake, 5,900 ft., p. of cant. 166,000; cap. L. c. at W. end of I., p. 30,000, length of L. 23 m., height above sea-level, 1.435 ft., beautiful scenery.
Luckenwalde, 1. on River Nuthe, Brandenburg prov., Prussia, enamel factories, cloth works p. 22,108.
Lucknow, 479. (area 22,046 Sq. m., p. 6 mill.), dist. (area 579 sq. m., p. 795,000), and cap. c. (p. 264,500) of Oudh, Brit. India on the winding bank of the R. Gumtl, 42 m. from Cawnpore. Pamous for its defence against the Sepoys in the Mutury, 2857. Large garmon, many fine bldgs., flourishing native manufs, musin, embrondery, brocade, etc.
Lucon, 7. in dep. Ventde, France, nr. La Rochelle and the sea; cathedral; p. 6,500.
Ludamar, nat. state, E. of Senegambia, W. Africa. Ludborough, par. and waferitake on Luncolnsh. wolds, nr. Louth, Eng.

Ludborough, sar, and wateritake on Lincolnsh, wolds, n. Louth, Eng. p. 1902, Luddendenfoot, industri. 2 on R. Calder, nr. Halilar, Lude, 2 on R. Loure, dep Sarthe, France, p. 4231. Ludenscheid, hardware mfg. 1 in Westphalia, Pruss.,

nr. Cologne, p. 28,410.

Llideritz Bay, otherwise Angra Pequefia, German S.W. Africa, on coast of Luderitzland, Great Nama-

qualand.

Ludgaan, or Ludjan, t. nr. Penzance, Conwall, Eng., Ludhiane, att. Juliundur div., Punjab, Brit. India, area 1.433 sq. m., p. 675,000; cap. L., t. nr. the Sutlej R., p. 50800. Shawi nanuf., grain trade. Ludington, c. Mason co, Michigan co, U.S.A., on shore of the lower peninsula of Lake M.; wood working: n. 2150.

working: p. 7,150. Ludinovsk, t. in Kaluga govt., Russ.; iron and glass

Ludwigs, p. 13,648.
Ludlow, bor. on R. Teme, Shrops, Eng., p. 5,066.
Ludwigsburg, military depot and mftg. t. of Wurtenberg, Germany, nr. Stuttgart, p. 21,864.
Ludwig's Canal, in Bavaria (120 m.), uniting the R.'s
Danube and Main.

Lamuoe and Main.
Ludwigahafen, industri. t. of Bavaria, on R. Rhine factories and foundries, p. 64,000.
Ludwigalust, t. in Meckienburg-Schwerin, Germany; grand duchy castle; p. 6,982.
Lugano, industri. t. in cant. Ticini, Switz. (p. 10,120) on Lake of Lugano (in m. long) at the Italian frontier.
Luganak, t. in Ekaterinoslav govt., Russ.; observatory and many manufs. p. 20, 260.

Luganak, t. in Eleaterhoolav govit., Russ.; observatory and many manufs., p. 20, 560.

Luganakaya, Cossack t. on L. Stanichnoye, prov. of the Don, Russ., p. 21, 474.

Lugar, vtl. on Lugar Water, nr. Cuamock, Ayrah., Luga, maritime prov. N. R. Spain, area, 2,769, 82, nn., p. 46,000; fishery and leather indus.; cap. L., t. on the Minho R.; tanning and textiles, p. 25,200. Also t. in Ravenna prov. Emilla, Italy; rope, furniture, and hardware factories, p. 25,260. Lukuga, intermittent outlet of Lake Tanganyika, Africa, on W. shore, communicating with Coage R.

Lulea, spt. Norbotton co., Sweden, on R. Lule nr. N.W. corner G. of Bothnia, p. 20,450. Lumphannan, pictureque hamete nr. Aboyne, Aberdeensh., Scotl. Lunawara, fort. t. cap. of L. State, Bombay fres., Lund, university t. nr. Maino, Sweden; ironworks, sugar refining, etc.: D. 174,88.

Lund, university L. nr. Malino, Sweden; ironworks, sugar refining, etc.; p. 71, 183.
Lundenburg, f. on Thaya R., S. Moravia, on Lower Austrian border; fine château, good trade; p. 7, 38.
Lundy Iai, in mouth of Bristol Channel, S.W. coast Lung, etc., in mouth of Bristol Channel, S.W. coast Lung, etc., and the Lindenburg, for the limenau R., prov. Hanover, Pruss.; alt works, coment factories, wine tr.; p. 26, 345.
Lunel, f. nr. Montpellier, dep. Hérault, France, Lunenburg, 59t. Nova Scotia, cap. of L. co., nr. Halifax, p. 4873.
Luneville, industri. f. in dep. Meurthe-et-Moselle, France; hosiery, watch-glasses, porcelam, motor cars; sait works in suburbs; p. 25, 160.
Lungchow, f. nr prov. Kwangsi, Chna, nr. Tonquin frontier; great tr. centre and military station; p. (exclusive of garrison) 22,000.

(exclusive of garrison) 22,000.

(exclusive of garrison) 22,020 N.W. of Sofala, betwn. Zanzibar and Mozambique. Luque, t. nr. Cordova, Spain, p. 4,783. Lurgan, t. nr. Belfast, co. Armagh, Ireland, thriving industries, p. 12,135. Lushai Hills, det. S. Assam, Brit. India; S. Lushai Hills is now included in the dist. instead of Bengal,

Hills is now included in the dist, instead of Bengal, area 3,500 sq. ni., p. 82,500.

Lussin, \$st. of the Quarnero grp., in the Austrian govt. Istria, in the Adratic; length 20 m., p. 12,000; trade centre and pop. summer resort. [p. 50,000. Luton, industri. t. (straw plant), Bedfordsh., Eng., Lutak, t. nr. Vladimir, in Volhynia, Russ.; industri.

Luter, f. nr. Vizidinir, in voinying, acuse, intensistand commerci, p. 15,480.

Lutterworth, f. in Leicestershire, on the Swift, 8 m.

N.N.E. of Rugby; pop. of parish, 1,870.

Lutermourg, prov. S.E. Belgium, on French border;
wooded and hilly; area 1,706 aq. m., p. 235,000; cap, Arlon.

cap, Arion.

Luxemburg, grand-duchy, and independent European

State adjoining the Belgian prov. just mentioned,
and bounded by S. France, E. and N.; area
999 sq. m. Considerable mineral wealth; p. 240,600,
cap. L., industrl. c., 43 m. N. of Metz., p. 22,000.

Luxeuil-lea-Bains, f. in dep. Haute-Saone, France;
famous from Roman times for its miurl. springs,

p. 5.588.
Luxor, w.i. adjoining Karnak, Upper Egypt, nr. site of anc. Thebes; magnif, runed temple.
Luxech, t. nr. Cahors, Lot dep., France, p. 2,260.
Luzerne, bor. Penn., U.S.A., on the Susquehanna
R., in Luzerne co., p. 3,840.
Luzon, largest of the Philippine Isls., area 42,243

Luzon, largest of the Philippine Isls., area 42.243 sq. m.; mountainous, but very productive; p. 3,800,000; cap. Manulla (q. v.). [D. 3,472. Luzzara, v.). on the R. Po, nr. Mantua, Italy, Lycaonia, portion of anc. Cappadocia now forming part of the Turkish vilayet of Ronia. [D. 3,984. Lychen, Z. in prov. Brandenburg, rn. Berlin, Lydd, mkt. 2 nr. Romney, Kent. Eng., p. 3,944. Lydenberg, or Leydenburg, Z. in Transvaal col., S. Affica; 180 m. N.E. of Pretoria. Lyden, msr., Stanley Range, N.S.W., alt. 2,000 ft.; also pk. nr. the Yosemite, California, U.S.A., of the Sierra Nevada system, alt. 3,170 ft. Lykl, Z. in E. Prussia, on the Polish fronties, beside a L. same name; old castle prison, iron foundries, breweries, etc., p. 1,2460.

L. same name: old castle prison, iron foundries, breweries, etc., p. 24,460.
Lykens, t. nr. Harrisburg, Penn., U.S.A., p. 3,170.
Lyme Regis, 59t. Dorestsh., Eng., on R. Lyme, nr. Dorchester, p. 2,772.
Lym Flord, shallow streat in Jutland, Denmark, betwn. Cattegat and North Sea, no m. long.
Lymington, bor. and spt. Hants, Eng., p. 4,294.
Lymm, t. nr. Warnington, Cheshire, Eng., p. 4,694.
Lynchburg, c. on the James R. Virginia, U.S.A.; gt. tobacco ning, centre, p. 29,494.
Lynden Glen, valley nr. Bedford, Cape Colony, S.

Lyndon, vil. on Pa-sumpsic R., Caledonia co., Vermont, U.S.A., p. 9,349. [Hamoare at Saltash. Lynher, R. of Cornwall, Eug, flows 26 in. to the Lynn (King's Lynn, or Lynn Regis, see King's Lynn, pp. Essec co., Mass., U.S.A., on Mass. Bay; gt. boot infig. centre, p. 80,334. [ford in Alseka (100 in. by 6 in.) forming a continuation of the Chatham Strut.

Lynn Canal, ford in Aleska (100 m. by 6 m.) forming a continuation of the Chatham Straat.

Lynton and Lynnouth, picturesque seaside vils. of N. Devon. Eng.; on the Bristol Channel connected by a cliff ry., p. (of Lynton only), 1,770.

Lyon, R. of Pertish., Scotl, trib. (38 m.) of the R. Tay below Loch T.

Lyonia, J. in Kentucky, U.S.A., Ohio co., p. 2,860.

Lyonnais, name of old French prov. divided into pres. dep. of Loire, Rhône, and Saone-et-Loire.

Lyonia, C. of Loire, Rhône, and Saone-et-Loire.

Lyonia, C. no., T. of dep. Rhône, at the confl. of R.'s Saône and Rhône, France; centre of silk-weaving industry and tr., dyeing and other impt. enterprises, stained glass works, etc.; many splendid churches and other bidgs., strong fortifications, p. over 59,000.

Lyons, formerly c. Clinton co., 16wa, U.S.A., on Mississippi R., now part of Clinton c.; also t. csp. Wayne co., New York, U.S.A., on Eric Canal p., 4864.

Lyons, Gulf of, wide bay of the Mediterranean, on S. cst. of France, into which flows the R. Rhône.

Lyskanun, p.A. of the Valais Alps, W. of Monte Rosa, alt. 84,800 ft.

Lys R., of Belgium and France, trib. (100 m.) of R., Scheldt.

Lys R., of Belgium and France, trib. (100 m.) of R. Scheldt. [Norway. Scheidt. Lysterflord, N.E. arm of the Sorgne fiord (sg. m. long), Lytham, mitg. £. on R. Ribble, N. Lancash, Eng., nr. Preston, p. 9,464. [Zeiland; fine harbr., p. 4,150. Lyttleton, spt. Schwyn co., Canterbury dist., New Lytton, £. on Frazer R., Brit. Columbia, p. 5,364. Lyvenet R., of Westmorland, Eng., trib. of R. Eden.

Maad, f. in vineyd, dist. in. Tokay, Hungary, p. 4,460.
Maas or Meuse, R rising in Haute Marine dep., France, and flowing 150 in.) through Holland and Belgium; joins the Wail to form the Rhine.
Maasin, f. on the cst. of Leyte, Philippine Isls, exports abaca, cotton, bepper, rice, etc., p. 18,200
Mabrook, or Mabruk, f. and tr. centre, Sahara, Centrl. Africa, 200 in. N.E. of Tinbuctoo.
Macahé, 59f. Rio Janeiro prov., Brazil, at mouth of the M. Rt. p. 6,421.

M. R., p. 6.474.

Macao, Portuguese c. and settlement of isl. at mth. of Canton R., China; fornil, an impt. commerci, centre; area 4, q. m., p. 73, acotalut, Aco Portuguego, Macapa, f. on R. Amazon, Brazil, exports cotton, rice

centre; area 4 sq. m., p. 70.400 (abt., 4.000 rottuguese; Macapa, f. on R. Amazon, Brazil, exports cotton, fice and timber, etc., p. 6.300.

Macapa, f. on R. Amazon, Brazil, exports cotton, fice and timber, etc., p. 6.300.

Macapa, chi, f. and port of Celebes, Dutch E. Indies; p. 20.000. The strait of Macas-ar separates Borneo from Celebes. [cst. lighthouse, p. 12.460.

Macayo, or Maceno, f. cap. Alagoas, Brazil, nr. the Macclesfield, mitg. f. (alk) Cheshire, Iring, p. 24.804.

McClintock Channel, between Prince of Wales's Land and Victoria, Brit. N. America, communcating with Melville Sound, in the N. Polar Region.

McClure Strait, between Banks's Land and Melville isl., B. N. America.

MacDos, industri. c. on Republican R., Nebraska, McDonald Isl., S. Indian Oc., S. of Kerguelen Isl.

MacDos, industri. c. on Republican R., Nebraska, McDonald Isl., S. Indian Oc., S. of Kerguelen Isl.

MacDos, industri. Creece, Bulgaria and Servia at one time a powerful empire, but after Balkan Wandon (1912) and powerful empire, but after Balkan Wandon (1912) and Macerata, prov. in the Marches, Italy; area 1.69, sq. m.; cap. M., c. betwn. the Adriatic and the Apenilines; terra-cotta manuf., cathedrai; p. 23.180.

Macplille (2012) and R., Washington Co., Maine, U.S.A., p. 2,860.

Machynies p. K., Carrantuolill, alt. 3,414 ft.

Machlas, 194. on M. R., Washington Co., Maine, U.S.A., p. 2,860.

MacIntyre R., N.S.W., 1776, (350 m.) of R. Darling. U.S.A., p. 2,869. Montgomerysh., Wales, on Kachynlieth, bor. Montgomerysh., Wales, on Kachynlieth, bor. Montgomerysh., Wales, on Kachynlieth, bor. Montgomerysh., Wales, on Kachynlieth, Mackay, 50. Queensland, co. Carlisle, on the Pioneer R., in sugar farming dist.; p. 5,474.

MacKeesport, c. on Monongaliela R., Allegheny co., Penn., U.S.A.; fron and steel manut.; p. 40,180. MacKees Rocks, t. on the Ohno R., Allegheny co., Penn., U.S.A.; iron and glass; p. 8,467. MacKenzle, R., N.W. Terntory, Can, rises in Rocky Mins. discharges the waters of the Gt. Slave Lake into the Artic Oc. total length including till. V.

into the Arctic Oc.; total length (including trib. R.

Peace) 2,350 m.

into the Archic Oc.; total length (including titl). Receivel, 2,350 in.

Mackinac or Mackinaw, f. at N.W. extrem. L. Huron, Michigan, U.S.A., p. 1,220. Mackinac Sound, connects Lakes Michigan and liuron.

Mackinacy, c. Colim co., N.E. Texas, U.S.A., in cotton-growing dist., p. 4,500. [ldist.] 8,430.

Maclean, agr. forwithip, Clarence co., N.S.W., p. Maclean, agr. forwithip, Clarence co., N.S.W., p. Macleay, dist. on N.E. cst., N.S.W., area 3,180 sq. m.; traversed by the M.R.; mins.

McMillen, vil. in mining dist. Glia co., Arizonu, U.S.A.; p. 1, clist.] 3,848.

Macomb, industri. c. in McDonough co., Illinot, Macomb, industri. c. in McDonough co., Illinot, Macomb, industri. c. in McDonough co., Illinot, Macomb, industri. c. in McDonough co., Illinot, Co., Georgia, U.S.A., en Ocmulgee R., in cotton belt; p. 40,665, also c. of Missouri, U.S.A., cap. M. co., p. 4,800.

Macpherson, c. and ry. centre, on Turkey Creek, McPherson co. Kansis, U.S.A., p. 3,840.

Macquarie Harbour, c. and pt. Frankin co., Taxinania; p. (list.) 3,646. [C.C. Texas Infalery Stut.]

manua; p. (dist.) 3,466. Macquarrie, Isl., S. Pacific Oc., 20 m. long; Brit. seal Macquarrie, R., N.S.W., trib. (750 m.) of Harling R. Macroom, t. m co. Cork, Ireland, on R. Sullane, p.

Madagascar, large 18/. in Indian Oc., off R. est. of Africa; French protectorate, area 230,000 sq. m., p. (est.) 3,500,000. Cap. Antananarivo, chf. pt.

Tamatave.

Madarasz, industri. t. nr. Szegedin, Hungary, p. 7,426.

Madawaska, R. of N. Ontario, Can. flows (230 iii.)

through lake region to R. Ottawa.

Maddaloni, infig. t. iii. prov. Caserti, Italy, nr. Naples.

Madeira, grp. of salubrious Fortugieses ists in Atlantic.

Oc.; total area 315 stj. iii. p. 150,500 Produce wine, sugar, etc. A much favoured winter resort, caj.

Funchal.

Funchal.

Madeira, R. of Brazil, trib. (780 m.) of R. Amazon

Madeley, mkt. L. on R. Severn, Shropsh., Fing. p.
8,893 alvo par. nr. Crews, Staffs. Eng., p. 2,934

Madison, mfg. c. on R. Ohio, Jefferson co., Indana,
U.S.A., p. 7,940, also university c. of Dane co.,
Wisconsin, U.S.A. p. 25,531; also smir. t.'s in S.
Dakota, N. Jersey, and Geogna, U.S.A.

Madisonville, L. m. Ohio, U.S.A., p. 4,740; also t. in
Kentucky, U.S.A., p. 3,894

Madjicosima, 779, of 3ml., also between Formost and

Madec, 241, on Deor R. co. Hastings, Ontare, Can.,
p. 1,840

p. 1.840.

Madras for Pres. of Fort St. George), a large div. of the S. Penn., Brit. India (including nat. States), area 41,726 s. in.; p. 41,605,404; cap., Madras, c., on B. of Bengal, p. 518,600; third c. of Ind.; great comerce, poor harbre, university

Madre de Dios, arch. Patagonia, rocky grp. off cst. of S. America in the Facilic Oc.

Madrid, cap. c. of Spain, and prov., New Castile; area Madrid, cap. 2. of Spam, and prov., New Castile; area of M. prov. 2,957 a. m.; p. 770,500; agr., vine-growing and manuf. The c. of M. has university, Nat. Library, Royal Museum of Art, and many fine bidge; a cathedral, palace, etc.; p. 580,000.
Madridejos, f. in Toledo prov., Spain, wine-growing dist., leather industry; p. 6,429.
Madron, f. in. Penzance, Cornwall, Eng., p. 2,840.
Madrad, dist. Madras, Brit. India; area 8,808 sq. m., p. 2,840,509; c.up. M., c., on R. Valgai, p. 105,500; colleges, a spiendid pagoda, and many industries; also an isl. of the E. Indian arch., sep. from Java by Strait same name, area 1,770 sq. m. p. 1,165,000,

strait same name, area 1,770 sq. m. p. 1,168,000, fishing and cattle-rearing, Maclar or Mälar, L. in S.E. Sweden, area 477 sq. m.; has 1,260 isls, with Stockholm c. at its E. extrem, Maclastom, whist/good N.W. cst. Norway, at S. extrem. Lofoden Isls. Strait same name, area 1,770 sq. m , p. 1,168,000,

Maestricat, cap. Dutch prov. Limburg; earthenware, glass, and textile factories; p. 37,600.

Maesyk, & on R. Maas, Holland, nr. Maestricht, p.

4,830.

Mafal, 4st. off cst. Germ. E. Africa, S. of Zanzibar.

Mafelking, t. in N. of C. Col., Brit. S. Africa; held for seven months against Boer siege by Baden Powell,

Magadoxo, cst. t. on Af. E. cst., subject to Zanzibar, p. 4,000. [in 1868 by British under Napier. Magdala, hill fort Abyssum, a Rt. 9,110 ft.; captured Magdeburg, fort. t. on R. Elbe, Saxony, Pruss., one of the prin, indust, and commerch centres in N. Germany: hdqrs, of Army corps; fine Gothic cathedral; p. (with subs. of Buckan and Neustaut), 279,460.

drai; p. (with subs. of Buckau and Neustatt), 279,400.

Magelang, f. in Java, nr. Samarang, mpt. tr., p. 35,460.

Magelang, stratt of, between Tierra del Fuego and S. Magenta, f. nr. Milan, S. Italy, nr. the Ticino; great battle (Austrian defeat) 1259; p. 5,680.

Magerde, str. N. of Norway, in Arctic O., on which is the North Cape.

Magersfontein, t. in Orange R. Col., Brit. S. Africa, here the Brit. under Lord Methuen were defeated by

the Boars in 1899.

Maggiore, Lago, N. Italy, and Switzerld., at foot of Lepontine Alps, area & sq. m., contains the Boaromean isis. beautiful scenery.

Magmolla, vit. Columbia co., Arkansas, U.S.A., p. Magwe, dist. Mimbu div. Upper Burma, area 3.331 sq. m. p. 2018 foot patrol wells.

mang we, asse, semina uw., opper burma, area 3,331 sq. m., p. 248,400; petrol wells.

Mahabaleshwar, A. and health res. W. Ghats,
Bombay, India; alt. 4,500 ft., p. 3,645

Mahabalipur, A. in Madras, India, famous cave-temples,

p. 4,120.

Mahallat, prov. Centl. Persia; cap., M. c., p. 9,400

Mahanadi, R., India, flows (520 ii.) from Orissa to B. of Bengal. [dist.; p. 1480. of Bengal. [dist.; p. 14.840.
Mahanoy, t. in Schuylkill co, Penn., U.S.A., colhery
Mahé, French settlement, Madras, Malabar cst., India;

Mahé, Frencii settiement, manuas, manuas, p. 8,560.
Mahi Kantha, grp. of nat, states, Gujarat div., Eombay, India; total area 9,300 sq. m., p. (greatly decreased by famme) 362,400.
Mahlm. ph. Thana dist. Bombay, India, p. 7,240.
Maidenhead, bor. Berks, Eng., nr. R. Thames; p. L. 3,280.
Maidenhead, bor. Berks, Eng., nr. R. Thames; p. 12,380.
Maidens, The, grp. of dangerous rocks, nr. Larne, off Maidstone, bor. and cry f. Kent, Eng., on R. Medwy, in bon partien dist.; p. 35.477.

manustone, nor. and cty t. Kent, Eng., on R. Medway, in hop garden dist.; p. 35.47;
Malbat, native state Bagelkhand Agency, Centri., India, area 470 sq. m., p. 77,460; cap. M. t., p. 6,500.
Malmansingh, or Mymensing, dist. Dacca div., Bengal, India, area 6,887 sq. m., p. 3,900,000; cap. Naisarahad.

Naisarabad,
Main, R., Germany affit. (204 m.) of R. Rhme.
Main, Jort at nuth. of E. Main R., Labrador.
Maine, N.E. state New Engld., U.S.A., aren 29,865
sq. m., p. 744,500; mtms., with much forest land; cap.
Augusta, cluet port, Portland; also Maine, F.
Maine, R. of France, formed by junctn. of Sarthe and
Mayenne, flows 7 m. to R. Loure at Augers.
Maine-et-Loire, dep. of France, area 2,812 sq. m., p.

Maine-et-Loure, arch of France, area 2,812 sq. m., p (decreasing) \$13,000; agr. vineyds.; cap. Angers.
Mainpuri, arch. Agra div., N.W. Prov., Brit. india; area 1,701 sq. m., p. 829,500; cap. M., t; mftg. wooden ware miald with wire, p. 19,400.
Mainz, or Mayence, t. on R. Klune, Hesse Darmstadt, Germany; foot, (garrison 8,000), many manuf., have trade 1, 1006.

stadt, Germany; fort. (garrison 8,000), many manu., large trade; p. 110,654.
Maisons-Alfort, S.E. 31th. of Paris, France, p. 10,460.
Maistonneuve, c. Quebec, Can., p. 19,000
Maitland, E. and W., L's Cumberland co., N.S.W., on Hunter R., p. (E.) 4,070, (W.) 7,350.
Majorca, or Mallorca. —/See Balearic Ials.)
Mako, or Makovia, industrl. L., cap. co. Csanad, Hungaron R. Maros. U. 24,380.

manay or sadarova, industri. r., cap. co. Csanad, Hun-gary, nr. R. Maros, p. 34,380.

Makololo, country of the Zanibesi valley, S.E. Africa.

Malabar, dist. Madras. Brit. Ind., area 5,585 sq. m.,

Mallader, 243. Modras, Brit. Ind., area 5,595 Sq. In., p. 2,801,460; cap. Calicut.

Malacca (with Nanning), one of the Straits Sertlements (Brit.) on W. coast Malay Pen.; area (about), 1,000 sq. In., p. 110,000; cnp. M., 230 In. N.W. Singapore. The Strait of Malacca separates Sumatra from the Malay Pen. [Leone, in French W. Africa, Malacuth, Ort.]

Malade City, on M.R., Oneida co., Idaho, U.S.A., p. 4,720.

Maladetta, with Piede Nethou, highest pt. in the Malaga, maritime prov. S. Spain, area 2,823 sd. m., p. (decreasing) 500,000; agr.; exports wine, fruits, oliveoli, etc.; p. of city, 723,600.

Malakoff, J. S. by W. of Paris, close to fortifications, mannly residentl, p. 15,140.

Malatia, J. in Memuet-el-Aziz vlayet, Asia Minor, on a fertile fruit-growing plain, nr. R. Euphrates, p. 30,000, mainly, Moslems; 3,000 Armenians massacred here in 180;

Malay Archipelago, otherwise called the Indian or Eastern A.; extensive grp, of tropical isla, extending from the Nicobar Isls, in the B. of Bengal to the Solomon Isls, in the Pacific, a distance of 4,800 m. and including Sumarta, Java, Borneo, the Celebes, the Philippines, New Guines, the Bismarck Arch., etc. (See separate entries.)

the Philippines, New Gulines, the Bismarck Arch., etc., (See separate entries.)

Malay Peninsula, the most S. portion of the continent of Asia, jutting out lozenge-shaped into the China Sea; area abt. 70,000 sq. m. Includes Lower Siam, Perak, Johore, Pahang, and Selangore; also the Brit. cols. of Malacca (with Nanung) and Wellesley. Malayir, sml. Persian prov. betwn. Hamadan and Burnjird; cap. Dauletabad.

Malayay is that portion of the Malay Arch. lying W. of the Moluccas and Timor.

Mal Bay, an intel of the Gassof Pen., Ouebec, Canada.

Mai Bay, an inlet of the Gaspé Pen., Quebec, Canada, Malchin, old f. on the R. Peene, Mecklenburgh-

maicinn, oid 7. on the K. Feene, Meckienburgh-Schwerin, Germany, p. 7,500.
Maidah, & S. Bhagaipur div. Bengal, lying along the banks of R. Ganges, area 1,851 vq. m., p. 886.500 (increasg.); cap. English Bazaar, nr. the t. of Oid Maidah.
Maiden, c. nr. Boston, Mask, U.S.A., of which it is Maiden, New, nikt. Ł. nr. Kugston-on-Thames, Surrey,

Eng., p. 3,140.

Maldive Iels., coral grp. in Indian Oc., 500 m. S.W. of Ceylon, p. 50,000 (Moslems), ruled by a Sultan subject

to Brit govt, of Ceylon.

Maldon, bor. on R.'s Blackwater and Chelmer, Essex, Malion, 60°, on K. S Blackwater and chemer, Essex, Eng., p. 6,233; also t. in gold-mining and farming dist. Victoria, 89 m. N.N.W. of Melbourne, p. 3,126. Maldonado, dep. of Uruguay; also fort. spt. in same, 60 m. E. of Montevideo, p. 2,674. Maleo, L. ur. Sodi, N. Italy, p. 4,473. Maler Kotler, nat. s. of the Punjab, India, S. of Ludhiana, area 160 sq. m., p. 78,100; cap. M.K.,

Malmo, set on The Sound, S. Sweden, exports bacon, p. Maimo, 5% on 1 he sound, s. Sweden, exports bacon, matches, etc., thriving trade and industries, p. 71, 246. Malo, t. in Haly, nr. Vicenza, p. 5,568. Malone, v.d. in iron ore dist., Franklin co., New York, U.S.A., p. 6,434. Malpas, mtt, t. in Cheshire, Eng., p. 1,040. Malpiaquet, vs.t. in Avesnes arrond., dep. Nord, France, Mariborough's victory, 1700. Maletadt Burbach, t. en R. Sear, Rhine prov., Pruss., large I nowrets, p. etfa.

Malstadt Burbach, A. on R. Saar, Rhine prov., Pruss., large Ironwris, p. 3462.
Malta, i.d. in the Mediterra, 60 m. S. of Sicil; Selongs to Britain, area 111 sq. m., p. 288, 564 (with Gozo and Conino); cap. Valetta, strongly fortd., arsenal, dockyd., military str., Maltera, A. on R. Emmen, cant. Lucerne, Switzerida, Maltera, A. on R. Emmen, cant. Lucerne, Switzerida,

p. 3,120.
Malton, mkr. 4. N.R. Yorka, Hag., on R. Derwent, p.
Malton Man., range in Basutoland, S. Africa, highest
pt. Machacha, alt. 20,900 ft.
Malvarn, or Great Malvarn, health res., Worcestersh.,
Hag., at Goot of Malvern Hills (highest pt., 2,395 ft.),
acholastic centre, p. 26,524.

Maiwa, prov. Centri. India, comprising States of Bhopai, Indore, Dhar, Jaora, Ratlam, Rajgarh, etc., formerly a Mogui kingdom. Maiwan, A. India, Ratnagri diet., on fortid. isi, Maiwar, ct., Bengal Pres., p. 18,484. Mamera, t. nr. Le Mans, Sarthe dep., France, on R.

Mamers, f. nr. Le Mans, Sartne cop., resuce, on r. Dive, p. 6,054.
Mammola, f. in prov. Reggio di Calabria, Italy, Mammoth Cave, Calaveras co., California; elso Mammoth Caves, Kentucky, on Green R., Edmonson co., stalactite formations in avenues aggregating 150 m. long.

Mamore, or Rio Grande, R., Bolivia (500 m.), trib. R. Mam Soul, min. Ross and Inverness, Scoti., alt.

Man, Isle of, in Irish Sea, area 227 sq. m., p. 55,000, chi. t. Douglas, p. 29,500 old cap., Castletown. Mana, R., French Guana, S. America, flows 175 m. to [70,140; cap. Puerto Viajo. Mana, R., French Guana, S. America, flows 175 m. to Atlantic.

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largest t.

Manchester, c. Lancash., Eng., on R. Irwell (which separates it from Salford), centre of the world's greatest mftg. dist., staple cotton; fine cathedral, town hall and other pub. bidgs; p. [of c. proper] town hall and other pub. bitgs.; p. (of c. proper) 714,427. Also c. on the R. Merrimac, Hilsboro co., New Hampsi, U.S.A., at Amoskeag falls; many flourishing manuf., p. 70,063; also intig. t. (chiefly textiles) of Hartford co., Connecticut, U.S.A., p. 12,724; also mfg. c. of Virginia, U.S.A., on James R., opp. Richimond, p. 10,022; also to on Makoqueta R., Delaware co., lowa, U.S.A., p. 3,125.

Manchurla, &w. of the Chinese Empire, outside the Gt. Wall, including the provs. of Liao-tung, or Shenking, Kirin, and Hei-lung-chiang, area 379,139 sq. m., p. (abt.) 12,500,000; scene of much of the fighting in the Russo-Japanese War, Manchurla having been claimed by Russia as her sphere of influence. Chf. t. Mukden; princ. pt. Newchang.

Mandal, most S. f. of Norway, on Skager Rack, 23 m.

influence. Chf. t. Mukden; princ. pt. Newchang. Mandal, most S. t. of Norway, on Skager Rack, 23 m. W.S.W. of Christiansand, p. 4,120. Mandalay, &tv. (area 2,767 sq. m.), dist. (area 2,071 sq. m.) and t. (hdqrs. of div. and dist.) en the Irawaid R., Upper Burnah; formerly cap. of kingdom, p. (including Britz garrison) 282,500. Old carved wooden palace, and many pagodas. Mandane, t. on cst. Cebu, Philippine Isls., in rice-growing dist.; p. 15240.

Mandame, t. on cst. Cebu, Philippiase Iala, in rucagrowing dist; p. 15,440.

Mandawar, old t. Bijnaur dist., N.W. Provs., India,
Mandahara, tot. on Narbuda R., Nimar dist., Central
Prova., India, famous for its temple.

Mandla, tot. de the Hujab, India, on lower
ranges of the Himalayas; area 1,13s sq. m., p.
175,210; cap. M., t. on the min. R. Beas; p. 5,140.

Mandla, dist. Jubbulpore div., Cent. Prova., India,
among the Satpura hills; area 5,05 sq. m., p. 89,400.

(decreased by famine); cap. M., t. on Nerbudda R.,
p. 5,085. [centre of the Malwa opium tr.; p. 82,460.

Mandaur, t. in the sative st. of Gwallor, India;
Manduria, t. m. Taranto, prov. Lecce, Italy, thriving
tr.; p. 10,856.

tr.; p. ro.856. Mandvi, 55t in nat. st. Cutch, Gujarat div. Bombay, India, on Gulf of Cutch; pt. of call for Brit. India

stmrs.: p. 40,644.
Manfalut, t. on R. Nile, beedr. Upper Egypt; snpt.
Manfalut, t. on R. Nile, beedr. Upper Egypt; snpt.
Manfadenia, fort. 39t. prov. Foggia, Italy, ar. slee
of anc. Sipontum, p. 20,828.

Mangaldan, t. in Pangasinan prov., Luzon, Philippine

leis; rice-culture; p. 16,430

Mangaiore, 59f. and admin. hdqrs. S. Kanara dist.,
Madras, Brit. India; exports coffee, cocce-nuts,

Magares, Brit. India; exports coffee, cocca-nuts, rice, spices, etc.; p. 44,500. Mangalvefda, £ in at. st., Sangli, Bombay, p. 9,432. Manglaur, £ in Sharanpur dist., N.W. Provs., India, p. 10,046. [many former head-hunters. Manglin, £ in Shan div., Bunna, p. 6,830, including Mangrel, 15£. Kathlawar, Bombay Pres., India, p. 16,680.

Manhattan, wat. \$2. Coney Isl., New York, U.S.A., Manhattan Isl., at mth. of Hudson R., area \$2 sq. m., forms princ. part of N. Y. city (\$2.2.) Manihiki Isls., \$275. in Pacific Oc., W. of Marquesas Isls. and E. of Union Isls.

Isls. and E. of Union Isls.

Manila, esp. of Luzon, Philippine Isls.; flourishing
spt., walled (Fort Santiago contains "Black Hole of
Manila" dungeons; fine cathedral and many impt.
bldga.; great tr.; p. 1, 250,000 (one-fifth Chinamen).
Manipur, nat. st. betwn. Upper Burma and Assam,
N.E. India; area 8,000 sq. m., p. 285,460. Brit.

Resident murdered 1891; punitive expedition fol-

Nessenent marured agas, pennice of the lowed.

Manissa, f. nr. Smyrna, Asia Minor, at foot of Mt. Shyium, an impt. commerci. centre; p. 38,000. Seat of the Byzantine inpl. govt. in the 13th cent., and res. of Murad II., after abdicating the Turkish throne in the 15th cent. Manistee, mftg. c. on L. Michigan, Mich., U.S.A.,

Manistee, mfg. c. on L. Michigan, Mich., U.S.A., p. 15,140.

Manistique, viii. on M. R., nr. L. Michigan, Mich., Manistique, viii. on M. R., nr. L. Michigan, Mich., Manitoba, wheat growing prov. of Cauada. N. of Munesota and Dakota States of the U.S.A., contains most of L.'s Winnipeg, Winnepegosis, and Manitoba, area 95,725 50, in. p. 455,614 Cap. Winnipeg (g.v.). L. M. has an area of 1,711 50, in. Manitowoc, c. Wisconsin, U.S.A., on L. Michigan, Large tr., p. 13,860. [farming dist; p. 1,140. Manitato, c. in Blue Earth co., Minnesota, U.S.A.; Mannargudi, i. in Tanjore dist., India, thriving tr.; Mannbeitn, i. on R. Rhine, Baden, Germany, extens tr. and manuf.; grand ducal castle; p. 154,400.
Manningtree, mkt. i. Essex, Eng., p. 1,142.
Manophamilton, i. nr. Silgo, co. Leitrin, Ireland, p. 1,010.

p. 1,010. [p. 5,848. Manosque, t. in dep. Basses-Alpes, France, nr. Digne, Manresa, t. in Barcelonu prov., Spain; woollen and other teatiles.

other textiles; p. 26,640.

Mans, Le.—(See Le Mans.)

Mansa, t. in Gujarat prov., Bonkay, India, p. 7,898.

Mansdeld, t. in Saxony, Pruss, cup. of former prov. or

Mansfield, f. in Saxony, Fruss, cap. or consequence of Mansfield, boot mfg. f. in Notts, England, on border of Sherwood Forest, p. 36.807; alvo agr. imp. mfg. c. of Richland co., Oliio, U.S.A., p. 20,768.
Mansurah, cap. Dakahlieh prov. Lower Egypt; famous in the Crusade; cotton factories; p. 27,460.
Mantes, f. in Seine-close, dep. France, opp. Linuay on R. Seine; cathedral, artif. incubator, and musici.

ust. manuf.; p. 8,805.

Mantiquira, min. range in Brazil, highest pk., 6,000 ft. Mantua, 100. Loulardy, Italy, area 912 sq. m., p. 348,940; cap. M., fort, t. on R. Mincio; ironworks;

348,940; CRP. 34,260. Andreas Hofer, champion of ayaonemberty, anothere by the French, 1870. Manytch, R. Russ., frib. (300 m.) of R. Don. Manytch, R. Russ., frib. (300 m.) of R. Don. Manytch, R. Russ., frib. (300 m.) of R. Don. Manytch, E. In Spain, prov. Guddad Real; anc. castle, chalk and brick works, tr. in wine, saffron, etc.; also name of Spanish R., which jours the Henares at Madrid. Mansanillo, commerci. c. of Cuba. Santiago prov.; exports sugar, tobacco, and beeswax; last battle of

Mansantilo, commerci. c. of Cuba. Santiago prov.; exports sugar, tobacco, and beeswax; last battle of Spanish war fought here: p. 14.510. Manimi. f. in Durango State, Mexico, p. 3,420. Mapusa, t. nr. Panjim, Gos. India, p. 10,864. Maquasa, t. nr. Panjim, Gos. India, p. 10,864. Maquasa, t. in Jackson co., Iowa, U.S.A., nr. M. R., p. 2,864. Margacay, t. in Guzman Blanco State, Venezuela, p. 8,661. p. 8,663.

Maracaybo, c. cap. of Zulia state, Venezuela, on L. M.; great coffee, cocca, and hide expert:
p. 35,654. G. of Maracaybo is the name given to an injet of the Caribbean S., between Colombia and Venezuela. [Bazail; area 173 sq. m., p. 85,664. Marajo, tcf. at mouth of the Amazon and Paros R. s., Maramaros-Sziget, t. in Hungary; timber industry and scholastic centre; p. 18,673.
Maranhao, state of N.E. Brazil, on the Atlantic coast: area 171,856 Sq. m., p. 480,644; gg. tr.:

coast; area 177,556 sq. m., p. 480,654; gr. tr.; cap. San Luis.

Marano, f. nr. Naples, p. 8,673; gd. tr. Marans, f. (industrl.) in dep. Charente-Inférieure,

Marans, J. (industri.) in dep. Charente-Inférieure, France, p. 466.

Marasi, e. in Aleppa vilayet, Asiatic Turkey; Kurd carpet rr.; p. 6,000, half Armenians.

Maratoa, e. job. Basilicata prov., S. Italy, on G. of Policastro, p. 504.

Marathoa, Plains of, Attica, Greece, 18 m. N.E. of Athens; Milliades won his gr. victory over the Persian host, 400 ft. Jew, sml. 594. Mount's Bay, nr. Penzance, Comwall, Eng., p. 7,940.

Marbella, 594. in prov. Malaga, Spain, on the Mediterranean, old castle, porcelain manuf. fish, raisins, figs, and cork exported, p. 10,140.

Marbelladd, port on Massachusetts Bay, Essex co., Mass., U.S.A., sunumer rest. for Boston, shoe factories, p. 8,465.

tories, p. 8,426.

tories, p. 8,456.
Marburg, garrison t. in the Austrian duchy of Styru, fruit-growing, dist. p. 25,200; also t. on R. Lahn, Hesse-Naisau, Pruss., university and manut., p. 8,566.
Marcaria, industri. t on R. Oglio, Mantua, Italy, March, mkt. t. in Cambridgsh., Eng., on R. Nen, in the lide of Ely dist., p. 8,403.
Marche, t. nr. Dinant, prov. Luxemburg, Belgium, Marchena, mftg. t. on the Guadalquivir, prov. Seville, Spain, p. 14,224.

Marchena, mftg. f. on the Guadalquivir, prov. Seviles, Spain, p. 14,234.

Marches, The, an Italian terr. drv. on the Adriatic brivin Abruzzi and Emilia, area 3,763 vq. m., p. over 1,088,000, embracing provs. of Maccrata, Ascoli-Piceno, Ancona, Pesaro, and Urbino, all of which see.

Marchienne-au-Pont, f. prov. Hainault, Belgium, on R. Sombre, flourishing tr., p. 20,680.

Mardin, fort. f. Asatic Turkey, Diarbekt vilayet, p. 12,470, half Christians, attacked during Armenian macteurs.

massacres, 1805 Maree, Loch, Schattful Scottish lake in Gairloch par, West Ross, skirted by mins. and studded with islds, length as in., breadth of m. at widest. Mareg-en-Bareuii, industri. 2. dep. Nord. nr. Lille,

Mareg-en-Bareuii, industri. £ dep. Nord. nr. Lille, France, p. 10,120.

Marengo, vil. in Alessandria prov., Italy, Napoleon's great battle, 1800, p. 3,243; also t. on M. Creek, Montesque co., N.S.W., p. 1,863.

Marennes, ppt. in Charente-Inférieure dep., France, nr. B. of Biscay, p. 5,074.

Mareotis, £. in Lower Egypt, S.E. of Alexandria (50 m. by 20 ml., the modern Birket-et-Mareut.

Margam, mining £ in Glamorgandn., Wales, p. 14,727.

Margar, Industri £ in Panjun, Goa, India, p. 12,686.

Margarita, 11,60 Venezuela, in the Caribboan S., pearl fisheries, 2004, pp. 400, cap. Assuccion.

fisheries, area 450 sq. m., p. 40,000, cap. Asunction.

Margate, bor. and seaside res. on coast of Kent,
Eng., W. of the N. Foreland, in the Isle of Thanet, res. p. 27,086

res. p. 97,085
Margaux, vdl. Gironde dep., France, famous for Chateau-Margeaux wine, p. 2,500.

[p. 5,040, Marggrabowa, mfg., t in Cumbinnen diet., Fruss., Marglihan, cap. of the prov. Ferghana, Asiatic Russ., flourishing tr., p. 39,494.

Marlana, c. Minas Geraes prov., Brazil, gd. tr., Marlana, e. Minas Geraes prov., Brazil, gd. tr., Marlana, pres. sib. Havana, Cuba, p. 5,863.

Marlano, industri. tr., Como, N. Italy, p. 5,249.

Marlasell, religious shrine in Styria, Austria, perm. p. 7,400.

Marlaco, dista, (extreme W.) Transvaal Col., Brit. S. Africa.

Marico. dist₀ (extreme W.) Transvaal Col., Brit. S. Africa. Marienbad, wat. pl. Bohemia, Austria, p. 4.58. Marienberg, t. in Zwickau circle, Saxony, Germany, wool, flax, and lace industries, also silver mines, p.

Marienburg, t. on the Nogat R., nr. Dantzic, West. Pruss., famous castle fortress, busy mod. manuf.,

Pruss., ramous teasp. p. 10,800.

Marienwerder, t. nr. the R. Vistula and Marienburg,
West Pruss., old cathedral, iron wks., etc., p. 10,240.

Marietta, t. at mth. of R. Muskingum, Washington co., Ohio, U.S.A., sawmills, foundries, etc., p. 15,120.

Marigliano, indust. t. nr. Nola, Caserta prov., Italy, [long.

p. 12,230. [long. Mariguana, uninhab. isl. of the Bahama grp., 25 m. Marijnsk, i. in Tomsk govt., Siberia, Asiatic Russ.; wood built but with imposing cathedral; agr. dist.

wood built but with imposing cathedral; agr. dist. and mining centre, p. 10.460.

Marinete, t. nr. Palmero, Sicily, p. (Industri.) 10.869.

Marinete, v. vl. on Green Bay, L. Michigan, Wisconsin, U.S.A.; large L. commerce, p. 18,498.

Marinot, t. in prov. Rome, Italy, p. 6,826.

Marion, t. cap. of Marion co., Centl. Ohio, U.S.A.; agr. imp. manul., p. 17,220; also c. in int. gas region. Grant co., Indiana, U.S.A., p. 2,26; also c. nr. Cedar Rapids, Linn co., Iowa, U.S.A., p. 5,240; also vil. in Perry co., Alabama, U.S.A., p. 4,293.

Mariopol, spt. t. on Sea of Azov, Yekaterinoslav govt., Russ., p. 21,294.

Mariojod, spt. f. on Sea of AZOV, I SEASTERMONA'S gover, Russ., p. 21,024.

Maritime Alps, ranger extending from Monte Viso to G. of Genoa, along the border of France and Italy.

Maritza, R. Roumella, flows past Philippopolis and Adrianople (200 m.) to the Ægean Sea.

Marken, 2. (industri.) ar. Deventer, Overyssel, Holland, p. 4,622.

Marken, 24. of the Zuyder Zee, Holland, p. 1,226.

Market Deeping, £ on R. Welland, in the Lincolnsh.

Sens Ency. 1, 200.

Market Deeping, t. on R. Welland, in the Lincolnsh. fens, Eing, p. 990.

Market Drayton, t on R. Terne, Shropsh, Eing, Market Harborough, mfg. t. on Grand Union Canal, Leicestersh, Eng., p. 8,852.

[Eng., p. 2,296.

Market Rasen, t. in agr. centre N.E. Lincolnsh, and Selby, Eng., p. 4,383.

Markitch, t. nr. Cupar, Fife, Scotl., p. 1,647.

Markirch, t. nr. Cupar, Fife, Scotl., p. 1,647.

Markirch, t. nr. Schlettstadt, Alsace, Germany; manuf. p. 1,2364.

Markinch, f. nr. Cupar, Fife, Scotl, p. 1,641.
Markinch, f. nr. Schlettstadt, Alsace, Germany;
Markinch, f. nr. Schlettstadt, Alsace, Germany;
Marlboro, c. Middleser co., Mass., U.S.A.; boot
factories, p. 13,608.
Marlborough, municip. t. Wilts, Eng.; commercl. and
educational (Marlborough College); centre of agr.
dist., p. 4,601; Marlborough Downs is an adjacen
ridge of pastoral hills, highest pt., Milk Hill, 607 ft.
Marlborough, prov. dist. New Zealand (N.E. pt. Soil.) embracing t.'s of Blenheim, Froton, and Havelock.
Marlow (or Great Marlow), mkt. t. on R. Thames,
Bucks, Eng., p. 4,698.
Marmande, old f. nr. Sean, dep. Lot-et-Garonne,
France: brandy and liqueur manuf., p. 9,264.
Marmolada, highest ph. of the Dolomite Alps, nr. the
S. Tyrol, alt. 11,054.
Marmolejo, vil. nr. Jeen, Spain, p. (industr.), 5,124.
Marmora, Sea of (170 in by 50) lies betwa. Sais and
Europe, communicating by the Strait of Bosphorus
with the Black S., and b. the Dardanelles with the
Ægean; the anc. Propontry: an isl. (the anc. Procomesus) lies in the S., on. W. S.W. of Constantinople,
11 m. long; it belongs to Turkey.
Marne, dp. of N.E. France, in the old prov. of Champagne; area 3,168 sq., m.; wine growing (of the
highest quality) and agr. are the staple industries,
but extile fuctories flourish round Rhemis, p. 435,500
(increased); cap. Chálons-aur Marne; the R. Marme
flows (100 m.) to the Seine above Paris.
Marne, Haute.—(See Haute Marne.)

Marne, Haute.—(See Haute Marne.) Marocco.—(See Morocco.)

Marocco.—(See Morocco.)
Maromme, vol. nr. Kouen, prov. Seine-Inférieure,
France, p. 3,148.
Marong, mining f. in Bendigo co., Victoria, p. dist.
Maros R., Hungary, flows (400 m.) from Transylvania
to the R. Theiss, nr. Szedin.
Maros-Väsdrhely, c of Hungary on R. Maros;
famous old fort, with Gothic Calvinist cathedral,
where in 1931 religious liberty was pregnulgated for
the first time in Europe. Protestant college, good
tr.: p. 20,124.

tr; p, 20,124. [p. 6,484. Marple, industri. £ on R. Goyt, Cheshire, Eng., Marple, or Mendani Isla., 272. in the Pacific Oc., n. of the Low Arch.; under Prench protection;

area 480 sq. m., p. 5,260; Nukahiva, and Hivaoa are

area 480 sq. m., p. 5,260; Nukahiva, and Hivaou are the largest of the grp.
Marquette, vtl. nr. Lille, Nord dep., France, p. 3,864; also c. on Marquette Harbr., L. Superior, Michigan, U.S.A., in the world's richest if on region, p. 11,120.
Marridd, f. nr. Florence, Italy, p. (industri.) 3,644.
Marrickville, sub. ber., to Sydney, N.S.W., p. 35,150.
Marsala, 924. (iort.). Sicily, nr. Trapani, Italy, centre of famous wine producing dist.; p. 50,120.
Marsden, unitg. t. on R. Colne, W.R. Yorks, Eng., p. 2,278.
Marsden, unitg. t. on R. Colne, W.R. Yorks, Eng., p. 2,278.

P. 5.757
Marselles, c. and set of France, on the Mediterra, cap. of Bouches-du-Rhône dep.; extensive expts. cup. of Bouches-du-Rhône dep.; extensive expts. wine, silk, woollens, cottons, fruit, etc., flourishing wine, silk, woollens, docks, fine new Byzantine

industries, capacious docts, nue new ayzanane cathedral; p. 500,000.

Marshall, c. of Harrison co., Texas, U.S.A., mftg. centre in agr. dist., p. 8,100; also c. on the high prairie nr. Salt Fork of Lamine R., Salme co., Missouri, U.S.A., p. 5,240.

Marshall Isla., German grp. of atolls in N. Pacific Ocn., total area 150 sq. m., p. 15,000. Largest isl and cent of ont Islint.

seat of govt., Jaint.

Marshalltown, cap. of Marshall co. on the Iowa R., Iowa, U.S.A.; mftg. and tr. t. in farming dist.; p. 13,210. [centre in timber region; p. 6,124. farafifeld, t. in Wood co., Wisconsin, U.S.A.; mftg. Marsico Nuovo, industri. t. m l'otenza prov., Italy, on

Marston Nuovo, industri. r. in Potenza prov., 1829, on. R. Agri, p. 8,240.

Marsivan, r. ir. Amasia, Asia Minor, in Turkestan vilayet, Sivas, at foot of Tavslan Dagh; good tr.; also missionary centre; p. 30,000, one-third. Armenians (many masacared, 1895). [In. Redcar; p. 3,464.

Marske-by-the-Sea, cst. wad. pl. N.R. Yorks, Eng., Marston, Long, par. nr. York city, Eng.; close by Marston Moor, where Cromwell defeated Prince Rucert in 1644.

Rupert in 1644.

Martaban, sm. /. and former fortress opp. Maulmain, Martaban, sin. \(\lambda\) and former fortress opp. Maulmain, Lower Barmia, on R. Salwin; the medizeval cap. of Pegu; it was stormed and taken by the British in 1823 and again in 1852. The G. of Martaban is an arm of the R. of Bengal, W. of Burmia.

Martha Vineyard; 187. and sunmer res (2r m. long), 4 m. from cst. of Mass, U.S.A., separated from the mainland by Vineyd. Sound.

Martigues, \(\text{i}\) in. Marsellies, Bouches-du-Rhôme dep., France; formerly the cap. of principality, \(\text{p}\), \(\text{6}\), \(\text{6}\), \(\text{6}\), \(\text{6}\), \(\text{6}\), \(\text{6}\), \(\text{7}\).

Martina, \(\text{\text{d}}\), \(\text{i}\), \(\text{Taranto}\), S.E.-most in Italy, industriand tries, \(\text{0}\), \(\text{0}\), \(\text{0}\), \(\text{0}\), \(\text{0}\).

and trdg., p. 21,180.

Martinengo, t. industri., ar. Bergamo, Italy, p. 5,460. Martinique, one of the French W. India isl. in the Antilles grp.; area 390 sq. m.; devastated by volcanic eruption in 1902, the town of St. Pierre with its eruption in 1902, the town of St. Plerre with its cathedral, most of the inhabitants, and property valued at £4.000,000 sterling, being destroyed by the burning lava sent forth from Mont Pelés, the fatalities being reckoned at 3,000. The p. of the isl, at the time of the terrible calamity was about 204,000, now abt.180,000. [U.S.A.; ry, works; p.7,864. Martinsburg, c. in the Shenandosh valley, Virginia, Martin's Ferry, iron and steel ufig. £. Belmont co., Ohio, U.S.A., on the Ohio R., p. 8,147. Martorel, industri. £. ir. Barcelona, Spain; p. 4,864. Martos, £ in Jaen prov., Spain; sulphur springs and baths; farming region; p. 71,899.
Marutse-Mambunda, £mgdom of Cent. Africa, on the Zumbesi R., p. (est.) shout 1,000,000.

Marutae-Mambunda, knydom of Cent. Africa, on the Zunbesi R., p. (est.) about 1,000,000. [p. 5846. Marvejols, L. on R. Cologne, dep. Luzère, S. France, Marybagough, mkt. L. Queen's co., Ireland, p. 2850; also t. in agr. dist. nr. Cympne goldfield, March co., Queensland, p. (dist.) 10,546; also bor., co. Talbot. Victoria: railway centre and works, p. 582. Maryburgh, former name of Fort William, Invernex, Scotl.; also vil. of R. Cenon, co.'s Ross and Cromarty Scotland.

Scotland.

Scotland.

Maryland, middle state, U.S.A., bounded by Virginia, Delaware, Pennsylvania, and the Atlantic Oc., area 12,210 Sq. m., p. 1,266,000. Crossed by the Allegheny Mts.; cap. Annapolls, largest c. Baltimore, Industries, sar, tobaccogramming minister many tries: agr., tobacco-growing, mining, manuf., etc.

Marylebone, bor., Middlesex co., Eng., forming a
densely pop. N.W. dist. London, p. 118,221.

Maryport, mkt. t. and spt. Cumberland co., Eng., on the Irish Sea, p. 11,423.

Marysville, t. in fruit-growing dist., Yuba co., Callfornia, U.S.A., p. 630; also vil. in Union co., Ohio, U.S.A. p. 3,146.

Maryane, t. in Caserta, Italy, nr. Gaeta, p. 4,973.

Massai Land, country in E. Equatorial Africa, Mt. Kilintanjaro dist., now under German domination, Masbat, one of the Philippine Isla., S. of Luzon, on by so m. [Eng., p. 9,540.

Masborough, mfg. sub, of Rotherham, W.R. Yorks, Mascali, industri. t. in Oran dep., Algeria; wine pro-

Masborough, mfg. ssb, of Rotherham, W.R. Yorks, Mascall, Industri. t. in Oran dep., Algeria; wine producing: p. 22,400 (one-half French).

Mascarene Isla, collective name of Bourhon, Mauritus, Rodriques, and Réunion, in the Indian Ocean.

Mascouath, t. in St. Clare co., Illmois, U.S.A., p. 3,138.

Masena, t. nr. L. Tchad and the Cameroon border, Cent. Soudan, Africa, cap. of Bhagrmi, p. 10,100.

Mashma, in the Oran, Ure, N.R. Yorks, Eng., p. 3,120.

Mashma, t. in Bornu country, E. Africa, p. 9,800.

Mashonaland, gold-bearing dr. f. of Africa between the Zambes and Matabelciand, annexed by Britam in 1888, and now forming part of South Rhodesia; cap. Salisbury: p. 500.000

in 1888, and now forming part of South Rindeas, cap, Salisbury; p. 500,000
Mask, Lough, co. 8 Mayo and Galway, Irel, 12 m. by Mason City, cap. Cerco Gordo to., 10w., U.S.A., on the Sholl Rock R., in 11ch agr. dist., p. 7,540.
Mass, or Massa di Carara, t. n., the Mediterranean coast, Tuscany, Italy; extensive marble quarries,

p. 28,560. p. 28,500.

Massachusetts, one of the New England states of U.S.A., bordering on the Atlantic, area 8,315 aq m traversed by Connecticut R.; has thriving mifg-trade and fisheries, and many excellent educational institutions, p. 3,400,000; cap. Boston (q. 79).

Massafra, t. m prov. Lecce, Taronta, Italy, p. (indust.) 11,200.

Masseffa, f. in prov. Lecce, farouta, Italy, p. (industri.) II. 270.
Massa Maritima, niftg f. in, Siena, Italy, in prov. Massilion, niftg f. of Stark co., Ohio, U S A, on Tuscarawas K., p. 13,120.
Massowah, f. 1sl. and Italian settlement on W coast of Red Sea; chief port for Abyssina, p. (town only) 7,850.
Masterton, f. in New Zealand (N. Island), 71 in. N. F. Massilipatam, or Bandar, 54. Kinta dist., Madras, Brit. India, on the Coroniandel coast; cotton and chief result.

chintz manut., p. 39,406.

Matabeleland, terr. But. S. Africa, in Limpopo and Zambesi basm, now part of S. Rhodesia.

Matagalpa, industri. A Nicaragua, p. 10,500.

Matamoras, A. on Rio Grande, Tamaulipas State,
Mexico, opposite Brownville, in Texas; gd. tr.;

14,684. Matanzas, commerci. c on N. coast, Cuba; many manufs.; bombarded by American warships in 1898;

p. 65,560.

Matariyeh, vil. Egypt, 6 m. N. of Cairo; the anc.
Heliopolis. (tries; p. 20,147.

Heliopolis.

Matzro, cst. c. nr. Barcelona, Spain; thrving indusMatzra, t nr. Potenza, Italy; gd tr, p. 17,164.

Matheran, health rest. Thana dist. (30 m. E. Bombay)
India; ait. 2,466 ft... res. p. 64.

India; alt. 2,460 ft., res. p. 2,474.

Matlock, t. on R. Derwent, Derbysh., Eng., famous for its hydropathics and beautiful scenery; p. 6,746;

for its hydropathics and beautifu scenery,
Matlock Bath (adjoining urban dist.), p. 1,850.
Matsuma, c. of Japan, cap. of Yesso Isl., p. 50,000;
[37,486.

noursing tr.

Matsuyamo, t. in prov. Iyo, Niphon Isl, Japan, p.
Matsuye, t. in Izoumo prov., Japan, p. 41,248.

Mattawa, vil. Ontario, Can., 198 m. from Ottawa; p.
(dist.) 3,246 (York, U.S.A., p. 6,329.

Mattawan, t on Fishkill Creek, Dutchess co., New
Matterborn, German name for Mt. Cervin, in the
Pennine Alps; sit. 14,771 ft.

Matto Grosso, Array, Razzil area 122,208 sp. m.; great

Pennine Alps; alt. 14,771 ft.
Matto Grosso, \$7920. Brazil, area 532,708 sq. m.; great
minl. wealth, iron, gold, diamond, rock-salt, etc.;
cattle-maching; p 101,240; cap. Cuyaba.

Mattoon, c. Coles co., limons, U.S.A.; tr. centre of
farm dist.; p. 10,478.
Matura, \$\frac{1}{2}\$, con S. cst. Ceylon; large tr., p. 19,124.
Maturin, \$\frac{1}{2}\$, (commel.) in Venezuela, 90 m. S.E.
Cumana; p. 12,526, [mercl. centre; p. 16,489.
Mau, \$\frac{1}{2}\$. in Jhansi dist. N.W. Prov., India; impt. com-

Maubeuge, fort £ in Aresnes, Nord dep., France; Jasworks; p. 23,471. [Lehigh R., p. 4,884, Mauch-Chunk, ber. Carbon co., Penn., U.S.A., on Mauchline, £ nr. Kilmarnock, Ayrah., Scotl., p. 450, Maul, one of the Sandwich list.; area 728 sq. m., 53 m.

Maul, one of the Sandwich Isis.; area 728 sq. m., ag m. W. of Hawaii; chf. t. Lahaina.

Maulmain, or Moulmein, bort on R. Salwin, Amherst dist., Lower Burma; p. 53.56.

[In Ohio. Maumee, R. Indiana, U.S. A., flows (180 m.) to L. Erie, Mauma Kea (alt. 73.800 ft.) and Mauma Loa (alt. 73.800 ft.), bokennes of Hawaii, Sandwich Isis.

Mau Nathhanjan, Z. on Tons R., Azamgarh dist.

India; large fr.; p. 75.246.

Maurithus, or lale of France, Brit. isl. col., Indian Oc.; area 795 sq. m.; p. 73.336 (two-thirds Hindu coolles); cap. Fort Louis; chi. product, sugar.

Mawdfach R., and estuary (19 m.), Merionethyh, Wales.

[rice and tobacco; cap. Mawkmai, st. Burma, area 3.79 sq. m., p. 18.850;

Wales, s. fire study (19 m.), Merinnetwise, Wales, wales, frice and robacco; cap. Mawkmai, s. Burma, area 2,769 sq. m., p. 18,895; pt. of parly, burgh of Dumfres, p. 6,200. May, Isle of, m F. of Forth, co. Fife, Scotl., lighthouse, p. 22. Porto Rico, West Indies; gd. tr. m Mayawaram, f. Tanjore dist., Madras, India, on R. Kaveri; p. 24,624. Maybole, industri. c. in Ayrshire; ancient cap. of Carrick; burgh of barony since 150; p. 4,889. Mayence.—(See Mainz.) Mayence age. N.W. France, area 2,987 sq. m., p. 311,000. Chiefly pattoral and agr.; cap., Laval. Mayenne R., of Mayenne and Maine-ct-Loire deps., France; (flows 195 m), p. 10 join the Sarthe. On its bank is the t. of Mayenne; ticking manuf., p. 19,246. Mayfield, par. m., Tunbridge Wells, Sussex, Eng. Mayelid, par. m., Tunbridge Wells, Sussex, Eng. 3,860.

p 3.075. [U.S.A., p. 3.860. Maynard, t. nr. Concord, Middlesex co., Mass., Maynooth, t. in co. Kildare, Ireland, Roman Cath.

Coll., p. 1,324

Mayo, mantime co. in prov. Connaught, Ireland, area
2,126 sq. m.; broken coast, much barren mtn. land,

many large lakes; industries, agr and fishery; p. 191,960 (decreasing); co t. Castlebar.

Mayosodle, c. on the Ohio R., Mason co., Kentucky,

Mayosotle, c. on the Ohio R., Mason co., Kentucky, U.S A.; mfrg centre in arg. region: p. 6.954 Mayotte, it' of the Comorogrp. Mozambique Chan., p. 9,500; French poss.. since 1843 Maytown, or Edwardstown, mining centre in Queensland, on Palinar R., p. 1800 Mazagran, sy' Morucro, 110 m. N. of Marrakesh (or Morocco c.): grain and wool tr.; p. (abt.) 10,000. Mazamet, sy' Morucro, 120 m. N. of Marrakesh (or Morocco c.): grain and wool tr.; p. (abt.) 10,000. Mazamet, s' nr. Castrage, dep. Tann, France: tanneries, leather wks., etc.; p. 10,486. [p. 21,474 Mazarron, nr. Castragena, prov. Spain; metal works; Mazatlan, port of California Cinaloa, Mexico; impit. tr; p. 15,403. Mazzara, industri. f. nr. Trapnined castle; p. 72,494 Mazzara, undustri. f. nr. Trapnined castle; p. 12,468. Maadville, c. of Crawford co., Penn., U.S.A., on French Creek; manuf., and seat of Allegheny Coll.; p. 13,668. Maadville, c. of Crawford co., Penn., U.S.A., on French Mealfourvonnie, mtn. on side of Loch Ness, Scotl., alt. 2,284 ft.

alt. 2,284 ft.

alt. 2,284 ft.

Meath, maritime co., Leinster prov., Ireland, area
905 sq. m., mainly pastoral land; p. 64,920 (much
declined); co. t. Trim. [great wool mart; p. 12,640.

Meaux, t. on R. Marne, dep Seine-et-Marne, France;
Mecca, or Mekka, holy to A ratha, 65 m. E. Jeddall.
Centre of Islamism, and birthplace of Mahomet,
annually visited by many thousands of pilgrims; res.
p. (abt.) 45,000. [Peim., U.S.A., p. 3,948.

Mechanicsburg, t. nr. Harrisburg, Cumberland co.,
Mechanicsville, t. on the Hudden R. New York.

Mechanicsville, t. on the Hudson R., New York,

U.S.A., p. 3,467.
Mechlin, or Malines, c. on R. Dyle, Belgium; chf, industries, cabinet-nikg., carpentry, chair-nikg., etc.;

p 60,400.

Mecklenburg-Schwerin, grand-ducky of Germany, bordering on the Baltic, area 5,135 sq. m., p. 610,460;

cap. Schwerm
Mecklenburg-Strelitz, grand-duchy of Germany,
S.E. of Schwerm, area 1,131 sq. m., p. 103,837; cap.
Neu Strelitz.

[p. 8,560. Medeah, c. in Algeria, 40 m. S.S.W. Algiers; good tr., a Medellin, c. cap. Antiogina State, Colombia, Centra

America, grt. t. with working in gold and silver; exports conce, hides, and precious metals; p. (abt.)

sp.000
Medembilk, t. on the Zuyder Zee, N. Holland, p. 2,246.
Medford, t. nr Boston Middlesex co., Mass., U.S.A.;
mftg. and educational; p. 23,270. [vania, p. 6,570.
Medgyes, or Madiash, t. on the Gt. Kokel, TransyMedla, bor, Penn., U.S.A., nr. Philadelphia, p. 3,427.
Medicine Bow Mtns., rangr in Colorado and Wyom-

Medicine Bow Mins., resuge in Colorado anu vryusaing, U.S.A.
Medina, R., Isle of Wight, flows to the Solent; also c.
of Arabia, as8 m. N.W. of Mecca, contains tomb
of Mahomevin mag. mosque, second holy c. of Islam;
p. (abt.) 20,000; also c. of Orleans co., New York,
U.S.A., on the Eric Canal, sandstone quarriers,
p. 4954.
Medina del Campo, 4: nr. Valladolid, Leon prov.,
Medina del Cosco, 4: nr. Valladolid, Spain; battle

1808; p. 4,943.

Medina-Sidonia, & in Cadiz prov., Spain; gt. tr. in agr. produce, olives, etc.; p. 11,964. Here is ancestral l. of Medina.

Medinet-el-Payoum, & on the Bahr Yusuf, Middle Egypt: tr. centre of rich agr. dist., many mosques; nr. site of anc. c. of Crocodiopolis, where was wor-shipped by the Egyptians the sacred crocodiles kept m Lake Mozris; pres. p. 41,460.

Mediterranean, the great inland sea—almost tideless—dividing Europe from Africa, and communicating with the Atlantic O, by the St. of Gibraltar and the Black S by the Dardanelles, S. of Marmora, and the Bosphorus. Eastern part touches Asia in the Levant, Total length W. to E. 2,200 m.; greatest width of sea Total length W. to H. 2,200 m; greatest width of sea proper about 700 m; water area 900,000 sq. m; greatest ascertained depth 14,000 ft. Contains many isls.: Corsica, Sardma, Sicily, Crete, Cyprus, and the Balearic, Lipari, Maltese, and Ionian grps, besides the Grecian arch, being the chief. (See sep. articles.)

Medidigi, e. in the Dobrudja, Roumania, 20 m, W.N.N.
Medimaa, fort. t. in Nedjed, Arabia, p. (abt.) 18,000.

Medoc, old sits. of France, extending along R. Garonne (abt. 48 m.), noted for its wines; now part of Gironde den.

Garonne (aut. 40 m.),
of Gironde dep.
Medvleditza, R. of Russia, trib. (330 m.) of the Don.
Medway, R. of Kent, Eng., flows from Surrey and
Sussex (70 m.), past Maldstone and Rochester, to
GMoscow. D. 4,664.

Sussex (70 m.), past Maldatone and Rochester, to the Thames. [Moscow, p. 9,464. Meetynsk, t. in govt. Kaluga, Russ., 86 m. S.W. of Meean Meer, contonment of the Punjab, India, nr. Lahore, p. 18,860. Meerane, t. in Saxony, Germany, nr. Zwickau; cloth Meerut, drv. (area 11,336 sq. m.), dist. (area 2,370 sq. m.), and c (p. 119,149) of N.W. Provs., Brit. India, chip, in the Doab tract between the Ganges and Jumna R.'s: M c. is an impt military stn., and was the scene of the outbreak of the Sepoy Mutiny in 1857. The entire div. contains a p. of 6,000,000.

Megara, t. nr. Athens, Attica, Greece, on the site of

Megara, t. nr. Athens, Attica, Greece, on the site of anc. c. same name, p. 5,450.

Mehallet-el-Kebar, t. nr. Caro, Lower Egypt, p. 10,000.

Mehidpur, t. on R. Sipra, Indore, Centri. India, p. 9,324.

Mehalu, t. nr. Bourges prov., Cher, France; runned Meiderich, t. in the Rhine prov., Pruss., nr. Ruhrort, iron and steel works; p. 36,480.

Mehalu, t. nr. Bourges prov., Cher, France; runned Meiderich, t. in the Rhine prov., Pruss., nr. Ruhrort, iron and steel works; p. 36,480.

Meingle, wid. on R. Isla, Petrihsh., Scotl, nr. Coupar Meiktila, div. (area 10,854 80, m.) and dix. (area 2,378 sq. m.) of Upper Burma in the dry or so-called rainless zone; total p. about 1,000,000. The hdqrs. t., M., is situated on the banks of a great artificial L. (area 3,500,000), p. about 5,000 (including wife of a Brit. regt.).

Meiningen, cap Saxe-Meiningen, Germany, on R.

Brit. regt.).

Mediningen, and Saxe-Meiningen, Germany, on R.

Worra, amild dense forest; castle, ducal theatre,
arsenal; p. 15,150.

Meissen, £ on the R. Elbe, Saxony, nr. Dresden;
royal porcelain factory; n. (with suburled 32,140.

Me Kong, or Cambodia, R., of S. E. Asia, rising in the
Tibetan highlands, and flowing 2,800 m. to the Chan
S. through Yunan, Burma, Siam, Cambodia, and
French Cochin China, the two latter countries owing
much of their fertility to its annual overflow.

Mekran, maritime prov. Baluchistan, area (about)

roo,coo sq. m., p. 200,000; cap. Kadja, t. on Doosti R.

Meianesia, a comprehensive name sometimes applied to Australasia, because of the colour of the

Melbourne, cap. c. of Victoria, on the Yarra-Yarra R., the most populous c. in Australia, many splendid bidgs., gt. commerci. and industri. importance; p. (about) 500,000. Meldola, t. nr. Forli, Italy, p. (industri.), 6,468. Meleda, or Melita, Adriaticks, of the prov. Dalmatia, Austria, am long, runed and page 1, 2,564. Melbourne, cap. c. of Victoria, on the Yarra-Yarra R.

Meleda, or Melita, Adriaticks, of the prov. Dalmatia, Austria, 3 m. long, rumed anc. pal., p. 1,644. Melegnano, or Marignano, c. in prov. Milan, Lombardy, Italy, textile manu£, battles 1515 and 1829, an anc. stronghold, p. 6,120.
Melenecze, industri. 1012. nr. Peterwardein, Hungary. Melß, c. m prov. Potenza, Italy, noted cathedl., made Norman cap. of Apulin, 1041, p. 13,124. Mellila, 294. Morocco, fortid. Spanish settlement and convict stn., p. 10,580.
Mellinda, 244 and 25. 268. on N. Zansibas cst., Brit. R.

Melinda, spt. and tr. stn. on N Zanzibar cst., Brit E. Melitopol, Russin. t. in the Crimes, govt. Taurida, p. Melikaham, mkt. t. on R. Avon, Wilts, Eng., p. 3, ros Melirose, nikt. t. co. Roxburgh, Scotl., on R. Tweet, runned abbey nr. Abbotsford, massion bulk by Sir runed abbey nr. Abbotsford, mansion built by Sir Walter Scott, p. 2,465; also c. same name, in Middlesex co., Mass., U.S.A., suburban to Boston, p. 14,646. [also t. nr Melibourne, Victoria, p. 1,862. Melton, Arr. on R. Deben, Suffolk, Eng., p. 1,462. Melton Mowbray, nkt. I. Leicestersh., Eng., ironwiss., famous pork pues, huning dist, p. 9,369. Melton, I. on R. Seine, dep. Seine-et-Marne, France the anc Melodunum, p. 12,847. Melville B. and M. Soud, Arctic America; Melville Fenns, N. Canada, S. of Baffinland. Membrilla, I. nr. Cudad Real, Spain, p. 4,839. Memel, 576. and thither export centre, E. Pruss., nr. N. extrem. Kursches Haff, p. 20,354. Memmingen, I. nr. Swabia, Bavarna, formerly a free imperial city p. 10,427.

imperial city p. 10,247.
Memphis, anc. Egyptin. c. on R. Nile, 10 m. S. Cairo, nr. are the runs of Sakkara; also flourishing. mftg. and cotton export. c. of Tennessee, U.S.A., on R.

Mississippi, p. 132,860. [p 6,234] Menada, Dutch & on cst. of Celebes, cap. of residency, thenai Strait (14 iii. long) separates Isle of Anglesey from Carnarvonsh., Wales, crossed by Britannia ry, and Menai suspension bridges [G. of Siam Menana, R., flowing (800 in.) from Yun-nan, China, to Menasha, industri. vsl. on Winnelago L., Wisconsin

U.S.A., p. 4.833. [famous for serge mftg. Mende, £ on R. Lot, Lozère dep. France, p. 8, 226; Mender, R. 200 m.) of Asia Minor; the auc. Mænder.

falls in Ægean S.
Mendhawal, t. nr Basti, N.W. Provs., India; p. 11,829
Mendip Hills, Somerset, Eng.; range 20 m. long.

and stock raising
Menf, industri. A nr. Sciacca, Sicily, prov. Girgenti;
Mengtze, dist. c. of Yun-nau prov., China, rumed in
Tai-ping rebellion, thi and opium tr., p. 12,000.
Menin, t. on R. Lys, W. Flanders, Belgium, flourishing
tobacco tr., p. 13,280.
Menomines of with 5 M. By

Menominee, c. at inth. of M. R., M. co., Michigan, U.S.A., tunber and iron, p. 14,100.

Menomonie, c. on Red Cedar R., Wisconsin, U.S.A.,

Menomonie, c. on Red Cedar R., Wisconsin, U.S.A., gram and thuber, p. 2,894.
Menouf, c. nr. Cairo, Lower Egypt, gd. tr., p. 5,130.
Menselinsk, c. on R. Ik, Orenburg, Russ., p. 7,349.
Menshieh, c. on R. Nile, nr. Girgeh, Upper Egypt, tr. centre, p. 1,245.
Mentans, c. in prov. Rome, Italy, Garibaldi's lattic, Menteith, L. (12 m. by 1 m.) and dist. S.W. Perthah, Scotl., betwn. R.'s Forth and Teith.
Mentone, health rev. nr. Nice on G. of Geneva, der Alpes-Maritimes, France, bridge on St. Losis (14 m. E.), crosses the torrent separatg. Italy from France;

scents and flower essences (distilled, fruit-tr., noted hon-caves, p. 16,29). [Damletta, Lower Egypt. Manzaleh, & [p. 4,24] and **Lower Legypt. Go m. by 55 m.] nr. Menselinsk, & in Ufa govt., Russ., with one of the most imperiant fairs in S. Ural rep., for cattle, hides, tea, etc., p. 9.41s.

Keppel, mite. 4, nr. Zuyder Zee, Holland, in Drenthe Meppel, the Hanover, Pruss, on R. Ems, chf. t. of the duchy of Avenburg, p. 3,845.

Mequines, c. of Morocco, nr. Fez, one of the Sultan's

residences, p. (abl.) 30,000.

Meran, Austrian f. nr. Botzen, in the Tyrol, favourite
health resort (annually visited by abt. 10,000 unvalids),
p. [with adjng. communes of Untermals and Ober-

muls) 18,200.

Merate, 4. nr. Como, Italy, fine palace, p. 2,984.

Merato-Sarraceno, t. in Forl prov., Italy, p. 8,42.

Mercato-Sarraceno, t. in Forl prov., Italy, p. 8,42.

Mercato-Sarraceno, t. in Forl prov., Italy, p. 8,62.

Mercato-Sarraceno, t. in Forl prov., Italy, p. 3,62.

Mercato-Sarraceno, t. in Kapuntina, 70 m. from Buenos Ayres, p. 7,26; also t. ou R. Negro, Uruguay, p. 4,136.

Mercato-Sarraceno, T. In M. Co., Penn., U.S. A., nr. Pittsburg, p. 4,260.

Mercatith, t. in Victoria, in mining dist. nr. Ballarat, Mercato, impt. tr. t. of Persia, prov. Azerbajan, p. (about) 10,000.

Mergentheim, or Marienthal, t. on R. Tauluer, Jagst muis) 18,200.

Mergentheim, or Marienthal, t. on R. Tauber, Jagst circle, Wurtemberg; long the seat of the Grand Master of the Teutonic Order; p. 4.360

Mergui, S.-most dist Lower Burma, in Tenasserim

Mergul, S.-most dist Lower Burna, in Tenasserim div., on B. of Bengal; area 9,789 sq. m. p. 00,000; cap. Mergul, good coast rt., p. 10,500; M. Arch, is a large ist, group off the coast of the dist.

Merida, 4. in Badajos prov., Spam; flourishing tr. in agr prod.; p. 11,480; also c. in Venezuela, cap. Los Andes, State p. 13,204; also t. in Mexico, cap. Yucatan prov., on site of an old Maya city; cathedral, great at the 20 flording mount. Yucatan prov., on site of an old Maya city; catnerra, great tr.; p. 41,80. [hardware maint.; p. 26,272. Meriden, c. New Haven co., Connecticut, U.S.A.; Meridian, f. m cotton-growing region, Lauderdale co., Mississippi, U.S.A., p. 23,28; [1,518. Merino, f. in Normandy co., Victoria, in agr. dist., p. Merioneth, maritime co. N. Wales; area too sq. m.;

Merioneth, maritime co. N. Wales; area foz 29, in.; pastoral and mining; p. 45,873; co. t. Dolgell) (et v.). Merkara, L. cap. Coorg. S. India, between Soluigapatam and Arabian S., p. 8,59.
Merod, or Merawe, Iale of, Nulva, betwn. Atbara and the Nile; ruins of and cap. of Ethiopia on R. Nile. Merom, Waters of, L. (4 m long), in Palestine, N. of the S. of Galilee, traversed by R. Jordan; where Joshua defeated Jahn, King of Hazor; the mod. Bahr-el-Huleh. (Kirk udbrightsh., alt. 2,76 ft. Merrick, mrs. (highest in Scotl.) in. Nowton-Stewart, Merrill, c. Lincoln co., Wisconsin, U.S. A., on W. R., timber tr., p. 9,283.

meering, c. Lincoin Co., WISCOININ, U.S.A., on W.R., timber tr., p. 9,283.

Mertimac R., New Hampshire and Mass, U.S.A.; uses in White Mins. and flowg. (N. 3 m.) to Newbury Port; on its banks, in Essex co., Mass., is the t. of M., p. 3,170.

Mertimac, A. N.S.W., Brisbane co., p. (dist.) 2,946.

Meracheid, mfig. t. in Rhenish Pruss, nr. Sollingen (now ownearly known as Ohluc).

(now generally known as Ohligs), p. (with commune) Mersea, isl. (41 m. by 2 m.) at 11th, of R Colne, Essex, Merseburg, t. on R. Saale. Saxony, Pruss.; cathdiand castle; noted for beer, p. 20, 184.

and Castle; noted for over, p. 20, 104.
Mersey, R. of Lancs. and Cheshire, Eng.; length 68 m., enters Irish S. by fine estuary at Liverpool
Mersina, 59t. S. cst. Asia Millor, port for Tarsus and

Mersina, 59t. S. cst. Asia Munor, port for Tarsus and Adana; good tr., p 12,500. [Wales, p. 80,999. Merthyr Tydvil, t. in colly. dist. Glamorgansh. S. Meru, t. nr. Beauvais, dep. One, France, p. 4,823. Mery, easts in Turkoman desert, Russ. Centl. Asia, along the R. Mungay; contas. many large villages (one formerly the c. of Merv), total p. 450,000. Merville, t. on R. Lys, Nord dep., France, p. 7,849. Merwars, div. of dist. Ajmere-Merwara, Rajputana, India, p. 1028-800.

India, p. 202,500.

Merzig, & on R. Saar, Rhenish Pruss., nr. Treves,

p. 5.014.
Mesagna, mftg. t. nr. Brindisi, prov. Lecce, S. Italy;
p. 9,827.
Mescala, on Rio de las Balsas. R. (500 m.) of Mexico,

flowg. betwn. Guerrero and Michoscan States to Pacific. fp. s.zes. Pacific. [p. g. ssg. Meschede, f. nr. Arnsberg, Westphalia, on R. Ruhr; Meschede, f. in Kaluga Govt., Russ.; p. (indust.),

Meachersk, f. in Annua over the first of the Mecca of Persis, "; pt. tr. centre; p. (abt.) 80,000. Something like 100,000 pligrims annually visit the shrine of Imam Riza, in a splendid Shiliter mosque.

Mesheryetsbe, f. in govt. Siedlece, Russ. Poland; Mesheryetsbe, f. in govt. Siedlece, Russ. Poland; Mesopotamia, gt. plain between the Tigris and Euphrates R.'s, Asiatic Turkey; 700 m. long, 200 m. w're, inhabited by nomads; but settled agr. is being encouraged. Baghdad is the Turkish cap. of the mod. prov Upper M., covers anc. Assyria, and I ower M.. Chalden and Balvylon.

the mod, prov. Upper M., covers anc. Assyria, and Lower M., Chalden and Balylon.

Messenia, or Karon, G. of, miet of the Mediterranean, S. and E of the Grecian dist, of M., which has an area of 1.390 sq. m., and a pop. of 260,500, cap.

Kalamata.

Kaismata.

Messina, fortfd. c. spt. of Sicily, on Strait of M., opp.
Reggio. Has famous univy, and flourishg slik
manuf.; exports fruit, wine, slik, oil, etc., p. (1901)
147, 106. Almost destroyed by earthquake, Dec.
1906. In strait of M. (22 in long), betwn. Sicily and
Calabria were the anciently famous rock of Scylle and whirlpool of Charybdis

Messingham, par. m agr. dist. nr. Brigg, Lincolnsh.,

Eng. p. 1.462
Eng. p. 1.462
Mesurado, R. Libena, W Africa, flows (300 m.) to sea
at Monrovia, in C. Mesurado, on the Grain Coast.
Mesurata or Mizratah, L. on coast of Tripoli, N.

Meta, coast 1. nr. Sorrento, prov. Naples, Italy, p. 7,460; also R. of Columbia and Venezuela (750 ns.,

7,460; also R. of Columbia and Venezuela (750 n., navigable about 400 n l, trib. of R. Orinoco.

Metcalfe, f. nr Melbourne, Victoria, p. (dist.) 3,846.

Metemneh, f. in Nubia, on R. Nile, opp. Shendy; objective pt., Stewart's div., Wolseley's relief expedition, 1885

Methley, f. in colliery dist. nr. I.eeds, W.R. Yorks, Methuen, f. in Essex co., Mass., U.S.A., 27 m. from Rocton, p. (industri) 2 no.

Boxton, p. (industri.) 7,840.
Metkovich, mkt. f. nr Herzegovina frontier of Dalmatis, on the Narenta R., Austria, p. 5,122
Metropolis, f. on Ohio R, Messac co, Illinois, U.S.A.,

p. 4,320. [8, Mettmann, mftg ! nr. Dusseldorf, Rhenish Pruss Metz, fortfd. t. in Lorraine, on R. Moselle, captured from France by the Germans in 1870. Cathedral, and many fine public bldgs. and statues; p. 58,560, ex-

many fine public bldgs, and statues; p. 58,560, exclusive of garrison (24,000 men).
Metzingen, f in Black Forrest, Würtemberg, on R. Neckar, nr. Stuttgart, p. 5,548.
Meudon, f. nr. Versailles, France, dep. Seine-et-Oise; castle-observatory, Galliera alinisiouses and orphanage, militury works; p. 10,110
Meulebeke, industri. f. nr Courtrai, Belgium, p. 9,887, Meurs, f. nr. Dusseldorf, Rhemsh Pruss., p. 4,819.
Meurthe, R. of France, flowing /70 m.) from the Vosges Mins to the Moseile at Frouard

Meurthe, R. of France, flowing tyo m.) fron the Vosges Mins to the Moselle at Frouard Meurthe-et-Moselle, dep of F. France, adjng. Germ., Lorraine, Belgium, and Luxemburg, area 2,037 sq. m.; agr. vineyards, and munng; p. 486,474; cap. Nancy (g. 2).

Meuse, dep. N. E. France, bordering on the Ardennes and Luxemburg; area 2,405 sq. m.; mining, manuf., and live-stock rearing; p. 88,300; cap. Bar-le-duc (g. 2). Traversed by R. Meuse, which rises in the Langres plateau, Haute-Marne, and flows to North Sea through Belgium and Holland, a course of soo m. Sea through Belgium and Holland, a course of 500 m. Mevagissey, fishing c. nr. St. Austell, Cornwall, Eng.,

p. 2,214. [p. 4,678. Mewe, f. on R. Vistula, nr. Marienwerder, E. Pruss., Mexborough, mftg. f. nr. Doncaster, W.R. Yorks,

Eng. p. 14,038 sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following sentence for the following senten

and p. reaches 15,000,000, about one-fifth of European extraction. Cap. Mexico c. in plain nr. Jezeaco, alt. 7,460 ft. above sea; fine House of Congress, many large public bidgs., and extensive rr. and industries;

p. 385,000. Mexico, c. of Audrain co., Missouri, U.S.A.; seat of

Mexico, c. of Audrain co., Missouri, U.S.A.; seat of Hardin College; p. 5,250; also name of t. in Luzon, Philippine Isls., p. 14,500.

Mexico, Gulf of, large inlet of the Atlantic (1,000 m. E. to W. by 800 m. N. to S.) lying S. of U.S.A. and E. of Mexico. Communicates by Florida Strait with the Atlantic, and by the Channel of Yucatan with the Crabbine Sea. Canbbean Sea. [p. (communal) 6,424.
Méze, 56. nr. Montpellier, France, in dep. Hérault,
Mézières, chf. t. of dep. Ardennes, France; fortified;

p. 8,128

p. 0,120, Mezò Bereny, mfig. 4, nr. Bekes, Hungary, p. 12,270. Mezò Bereny, mfig. 4. C. Saulad co., Hungary; horsebreeding, sugar refining; p. 6,364. Mezò Kovezed, 4. in Borsvd co., Hungary, flourishg.

manufs., p. 11,240.
Mező-Túr, t. on R. Berettyó, nr. Debreczin, Hungary,

Mezd-Tür, ?. on R. Berettyó, nr. Debreczin, Hungary, thriving tr. and manuf., p. 24,840.
Mezzojuso, ?. nr. Palermo, Scily, p. 7,949.
Mhow, ?. in nat. st. Indore, Centl. Inidia, with Brit. mil. cantonmit., p. (includg. garrson) 36,470.
Miagzo, ?. trading and infig., on S. est. Panay Isl., in the Philippines, p. 22,840.
Miake.—(See Roto.)
Miami, R. e Roto.)
Miami, R. e Roto.
Miamisburg, ?. on M. R., Montgomery co., Ohio, U.S. A., p. 3,236.
Miani (or Mecanee). ?. in Hushiarpur dist., Punjab, Miami (or Mecanee). ?. in Hushiarpur dist., Punjab, Miamim, or Maranhão, R. of Brazil, flows (350 m) to São Marcos Bay.
Miasekiy Zavod, goldming ?. in the Orenhurg govt.
Miasekiy Zavod, goldming ?. in the Orenhurg govt.
Miava, industri. ?. nr. Presburg, Hungary, on the R.

Miava, industri. ¿ nr. Presburg, Hungary, on the R. M., p. 1:1/48.

Micheldever, par, nr. Winchester, Hants, Eng., p. Michigan, N. central st. U.S.A., in the valley of the Great Lakes, parily agr., partly rich in innerals, area §6.05 sq. m, h. 2,000.000; cap. Lanung [cv. b]. Michigan, c., Laporte co., Indiana, U.S.A., on L. Michigan, large lake tr., p. 16,220.

Michigan, L., in the basin of R, St. Lawrence, enclosed by the two pennisulas of the State of M. and by Wisconsin, Illinois, and Indiana, area 23,000 sq. ni., discharges by str. of Mackinaw to L. Huron.

Michipleoten, R. Ontario, Canada, flows [125 m.] to L. Superior.

L. Superior.

Michoacan de Ocampo, st. of Mexico, on the Pacific, area 22,881 sq. m., mountainous and rich in minerals,

p. nearly 1,000,000; cap. Morelia.

Micronesia, dvv. of Oceania, embracg. many (mainly coral) sml. isis. and isl. grps. N. of the Equator and E. of the Philippines, include, the Carolinas, the Ladrones, and the Pelews.

Middelburg, t. in the isl. of Walcheren, Holland, nr. Flushing, anc. cap. of the prov. of Zeeland, margarine Flushing, anc. cap. of the prov. of Zeeland, margarine factories and gd. transit tr. in tumber, etc., p. 20.140; also t. and centl. dist. Transvaal col., Brit. S. Africa. Middleboro, f. in Mass., U.S.A., in agr. dist. of Plymouth co., 24 m. S.E. of Boston, p. 7,240. Middlebury, f. nr. Burlington, Vermont, U.S.A., marble quarries, p. 3,468. Middlebarn, per., with race-horse tr. stables, nr. Leyburn and Middleham Moor, N.R. Yorks, Eng., p. 2,726.

D. 3.736. Middleport, t. in Ohio, U.S.A., nr. Pomeroy, on O. R., Middleport, t. in Ohio, U.S.A., nr. Pomeroy, on O. R., Middlesbrough, 59t. in Cleveland dist., N.R. Yorks, Eng., on estuary of R. Tees, centre of in the tr., shipbldg. and coal export., p. 104.787.

bldg. and coal export., p. 104,787.

Middle ex, S.E. Midland co., Eng., N. of R. Thames, containing the c. and much of the co. of London,

area 883 sq. m., p. 3500,000.

Middleton, mkt. and manuf. t. S.E. Lancash., Eng., nr. Manchester, p. 27,983; also mkt. t. in co. Cork, Ireid., p. 3,348; also mkt. t. on R. Tees, go. Durham,

Eng., p. 2,354.

Siddletown, c. of Middlesex co., Connecticut, U.S.A., on C. R., p. 10,000; also c. Orange, co. New York, U.S.A., on Walkill R., p. 15,894; also c. Butler co., Ohio, on Miami and Eric Canal, p. 9,860; also bor

Dauphin co., Penn., U.S.A., on Susquehanna Is.,

Dauphin co., Penn., U.S.A., on Susquenama i., p. 5,858.
Middlewich, L. nr. Northwich, Cheshire, Eng.; p. 4,010.
Midgley, industri. L. nr. Halifax, W.R. Yorks, Eng.; p. 2,143.
Midhurst, mkt. L. on R. Rother, Sussex, Eng., Midhand, L. in Simcee co., Ontaro, Can.; p. 1,743.
Midhand, L. in Simcee co., Ontaro, Can.; p. 1,743.
Midhand, e. see Lothians and Bdinburgh.)
Midnapore, sixt. Burdwan div., Bengal, India; area 5,186 sq. m., p. 2,800,000; cap. M., t. on Katsai R.; brass and copper wire manuf.; p. 3,3000. [p. 5,840.
Midsomer Norton, L. nr. Bath, co. Somerset, Eng.; Mieres del Camino, L. on R. Leno, Spain, nr. Ovieno; tr. in ores and agr. prod.; p. 18,475

tr. in ores and agr. prod.; p. 18,475
Miguelturra, t. nr. Ciudad Real, Spain; p. 0,428.
Migulinskaia Stanitsa, t. in Don Cossacks prov.,

Russia; gt. gram export; p. 18,048. arpur, or Meherpur, c. Nadiya dist., Bengal, Minrpur, or

Minrpur, or Meherpur, f. Nadiya dist., Benyan, India; p. 5,843.
India; p. 5,843.
Mikhailov, z. in Asiatic Russ., starig. pt. of Trans-Mila, tradg. A. in: Constantine, Algeria; p. 6,865.
Milan, c. of Italy, on R. Olona, in Lombard Plain; cap, of M. prov., the Roman Medialanum, it is the second c. in size of mod, Italy, and a place of great commerci. and industri, as well as political importes. P. abt. 600,000. Exports the agr. prod. of fertile surroundg. dist.; and much slik, wool and other textiles locally produced; also machinery, furniture, etc. A great art and educatiol. centre. Magnificer catholl of marble, decorated in Flamboyant style;

many art galleries, museums, etc.

Milazzo, fort. 191. Sicily, on N. cst., nr. Messina;
here Garibaldi defeated the Neapolitans n 1860. p. [3,846,

16,820.

Midenhall, nikt. t. on R. Lark, Suffolk, Eng., p. Middura, t. and rrigation centre, Victoria, N.S.W. border, on Murray Ri., p. (dist.) 2,846.

Mile Bnd New Town (p. 47,973), and Mile Bnd Old Town (p. 17,973), and Mile Bnd Old Town (p. 17,973) industri.

Mileto, t. in Calabra, Italy, prov. Catanzaro; p. 4,243.

Milford, bor. (of Pembroke dist.) on Milford Haven, Pembrokesh, Wales; a centre for mackerel-fishery distributn, p. 5,738; also t. in Worcester co., Mass., U.S.A.; boot mannif; p. 14,122.

Millanah, t. in Algeria, 66 m. S.W. of Algiers, busy trade centre; p. 6,869.

trade centre; p. 6,609.
Miltary Frontier, a belt of country (now incorporated with Transylvania, Hungary, and Croatia-Slavonia) in Austria-Hungary; placed under martial regulations for defence against Turkish aggression; area

7.428 sq. m.
Milhtello, industri. t. in Sicily, Catania prov.; p. 10,946.
Milk R., trib. (500 m.) of R. Missouri, Montana,

Milk R., trib. (500 m.) of R. Missouri, Montana, U.S.A. glove manuf; p. 18,246. Millau, t. on R Tarn, prov. Averyon, France; kid-Millbrook, t. N.W. Southampton, Hants, Eng., at mth. of R. Test; p. 3,432. Millburry, t. Worcester co., Mass., U.S.A.; p. 4,668. Millchester, t. nr. Charters Towers, Queenishand; p. (dist.) 1.849. [educatni, centre; p. 4,873. Milledgewille, c. on Oconee R. Georgia, U.S.A.; Millom, mkt. t. (with blast furnaces) on Dubdon estuary, Cumberland, Fig.; p. 8,672. Millcom, Malby, mkt. t. on Mal Bay, co. Clare, lirel.; p. 1,490. [Allegheny, p. 4,827.

irel: p. 1,420.
Millvale, bor. Penn., U.S. A., betwn. Pittsburg and Millville, c. on Mauroc R. Cumberland co, New Jersey, U.S.A., glass, iron, and cotton manuf., p. 11.000

11,000.
Milngavle, t. in Stirlingsh., Scott., nr Glasgow, p. Milnrow, mftg. t. S.E. Lancash., Eng., subn. to Rochdale, p. 8,54.
Milo, or Melos, st. of the Cyclades, Greece, volcanic, length 32 m., p. 4,247. Here was found in 1890 the famous statue, Venus of Milo, a model of womanly form in sculpture. form in sculpture.

Milton, t. in Norfolk co., Mass., U.S.A., subn. to Boston, and containing the Blue Hills Park and Ob-Boston, and containing the Buse rains rains and sore servatory, p. 7,433; also ron wig, t. of Northumberland co., Penn. U.S. A., on Susquehanna R., p. 6,874. Milton Abbas, vil. Dorset, Eng., nr. Blandford, p. (dist.) r,064; Milton Abbots, par. nr. Tavistock, Devon, Eng., p. 1,247; Milton-next-Sittingbourne, t. on R. Swale, Kent, Eng., p. 7,130. [alt. 11,400 ft. Miltsin, pk. of the Atlas Mins., Morocco, N. Africa. Milverton, mkt. f. Somerset co., nr. Taunton, Eng., p. 3,030; also t. on R. Avon, Warwicksh., Eng., p. 2,227.

2,267.

Milwaukee, c. on L. Michigan, Milwaukee co., Wisconsin, U.S.A., nicat packg., brewing, and many manuf., gt. tr., p. 37,3857.

Minam, famous grotto wil. nr. Kerman, Persla.

Jinas Basin, E. arm of Bay of Fundy, Nova Scotia.

Minas Geraes, state of Brazil, area 222,160 Sq. nr.

mining and agric., p. 3,250,000; cap. Ouro Pres.

Minbu, adv. (area 17,170 sq. m.) Upper Burma, p.

over 1,000,000.
Minch, The, channel, betwn. isl. of Lewis and Scottish manid., 24 m. to 40 m. wide; The Little Minch is 400 ther chan. to 5. of foregoing, betw. the Outer Hebridos and Skye.

another chan. to S. of foregoing, betw. the Outer Hebrides and Skye.

Minchinhampton, mkt. t. nr. Stroud, Gloucestersli, Minchinhampton, mkt. t. nr. Stroud, Gloucestersli, Minchinhampton, 18, (volcanic) of the Patagonian Andes: alt. 7,954 ft.

Mincio, R. Taly, flows (38 m.) from Lago di Garda to Mindanao, ist. of the Philippine grp.; area 36,755 sq. in, p. 60,000, U.S.A. possession.

Minden, govt. dist. Westphalia, Pruss.; area 2,009 sq. in. Cap. M., fort. to nr. Wesser; p. 26,720.

Mindoro, ist., Philippine grp., s. of Luzon; area 4,000 sq. in.

sq. m.
Munchead, mkt. t. and wat. pl. Somerset, Eng., p.
Mineo, industr. t. in Catania prov., Sicily; p. 10,734.
Mineral Point, t. nr. Madison, Wisconsin, U.S.A., p.

3,3⁽³⁾,
Minerbis, t nr. Bologna, Italy, p. 7,486. [p. 3,234.
Miner's Mills, t. in Penn., U.S. A., on Susquehanna R.,
Schwilkell R., Penn., U.S. A., p. Minervine, indext. A. nr. Barletta, prov. Bari, S. Italy, Minervine, industr. A. nr. Barletta, prov. Bari, S. Italy,

Mincrella, old Russ. prov. now part of Kutais govt.
Minho, R. flowg. (170 m) from Galicia to the Atlantic,
and formg. pt. of the northn. boundy. betwn. Spain

and Portugal.

Minho, or hatre-Douro-e-Minho, N. prov. Portugal;

area 2,808 q. m., p. over 1,000,000. [11,288, Minieh, t. on R. Nile, mid-Egypt; impt tr centre, p. Miniet Dashur, vil. nr. Ghizeh, Lower Egypt; four

pyramide: Dasaur, viz. ir. Collects, Lower Egypt; 15,866.
Minmi, / Cun berland co., N.S.W., in colly, dist.; p.
Minneapolis, cap. c. of Minnesota, U.S.A., on both
lanks of the Mississipia R. at the Falls of St
Anthony, and adjoining the c. of St. Paul; has the
largest flour nulls in the world and an immense timber industry; seat of the University of Minnesota. , 2,540.

Minnesota, a N centl. state, U.S.A., adjng. Manitoba, C.u.; p. over 2,000,000; area 83,395 54; n. agr. and flour-milling, timber-sawing and wood-work, meat-packing and mining; cap. St. Paul. Principal R.'s, the Mississippi and Red R. (both of which rise in the st.) And the Minnesota R. (425 m.) trib, of the Mississippi. Besides St. Paul and its great "twin city," Minneapolis, Duluth is an immense commerci centre.

neapolis, Duluth is an immense connieral centre. The State contains many lakes,
Minnick, Water of, R. of Ayrsh and Kirkcudbrightsh.,
Scotl. (15 m.), trib, of R Cree.
Minni Wakan, L. in Dacota, U.S.A., 40 m by z m.
Minonck, t. and mupt. pp. pn. N. Illimors, U.S.A., p.
3474.

[28] sq. m., cap. Fort Mahon,
Minorca, one of the Balearic Isls., Spinish; area
Minnsk, govt. W. Russa; area 35.293 sq. m.; agr.,
grdng., flour-milling, brewing; p. 2.250.000; cap.
Mussk, t. on a trib. of R. Beresma; many manuf.;
p. 93.480. M. was part of the anc. t. Lultunan.
Minster, par. in Isle of Sheppey, Kent, Irng., nr.
Sluceness; p. 1.546.

Sluceness; p. 1,546.
Minussinsk, t. m Yenisei govt., Russn. Siberia; fertile prante regn.; p. 10,430. [of Christiania. Miosen, largest L. of Norway (55 m. long) 40 m. N.E. Miosvand, Suilt. Norwegian L. (24 m. long) in S.W. Christian prov.

Cinstians prov.

Miquelon, French ist. off S. est Newfoundland.

Miquelon, French ist. off S. est Newfoundland.

Mira, t. on the Brenta Morta, Venice, Italy, p. 10,136;

also t. nr. Coimbra, Portugal; p. 6,647.

Mirabella, c. nr. Benevento, Avelino prov., Italy, p.

Miraj, nat. st. Deccan div. Bombay, India; area of sonior branch 339 sq. m. (p. 88, 500), of junior branch 225 sq. m. (p. 88, 500), of junior branch 225 sq. m. (p. 87, 42). Chis. of both parts of st. reside in Miraj t., nr. R. Kistna, p. 28,898. (M. Bay. Miramichi, R. of New Brunswick, flows (220 m.) to Miranda, northn. st. Venezuela; area 33,963 sq. m., nastoral and agr.; p. 500,000.

Miranda-del-Ebro, industri. A. nr. Burgos, Spain; p. Kiranda-del-Ebro, industri. A. nr. Burgos, Spain; p. (commune) 17,642.

Miranda-da-Douro industri. A. nr. Moncoro, Portu

Miranda-do-Corvo, mfg. l. nr. Coimbra, Portugal; p (commune) rr.642. [gal, p. 8,962. Miranda-do-Douro, industri. l. nr. Moncorvo, Portu Mirandola, l. (fortil.) in Modena prov., Italy; former cap. of a duchy; p. r4,180. Mirano, t. nr. Padiua, N. Italy; p. 7,496. Mirfield, industri. l. on R. Calder, nr. Huddersfield. W.R. Yorks, Eng.; p. 11.712. Mirgorod, old dist. l. govt. Poltava, Little Russ., on the Khorol R; suffered in the Poltsh wars; p. 70,682. Mirim, L. on bot-ler of Brazil and Uruguay, r15 m. by 220 m. Italy

Mirim, L. on bovier of Brazil and Urugusy, ris m. by 20 m.

Kiropolie, t. on the Psiol R, Kursk govt., Russ., nr.

Mirzapur, dast. Benares div. N.W. Prov., Brit. Indus; area 5,223 sq. m., p. 1,080,520; cap. M., c. on R. Ganges, formerly ag tr. temporium; p. 79,500.

Misantla, ruined Mexican c. nr. Jalapa.

Mishawaka, c. St. Joseph co., Indiana, U.S.A., on St. J. R.; manuf. of agr. unplts., p. 6,498. [p. 17,425, Mislimerl, industri d. on Bagaria R., Palermo, Sicily, Mislones, terr. of the Argentine; area 17,482 sq. m.; farming and stock-raising; p. 38,484; cap. Posadas.

Miskish Mins., between R. Kenniare and Bantry B, Ireland; highest pk. 1,472 ft. [centre; p. 48,641.

Miskolez, t nr. Irlau, Hungary; hupt. tr. and traf.
Miskolez, t nr. Irlau, Hungary; hupt. tr. and traf.
Mississinewa R., Ohio, U.S.A., affit. (140 m.) of K.

Wabash. Mississippi, a S state of U.S.A. lying E. of M. R. and N. of the G. of Mexico and Louisiana; area

and N. of the G. of Mexico and Louisiana; area 45,810 sq. m., grows corn, tobacco, cotton, and pasture; p 1,870,000 (three-fifths coloured—including Chinese and Red Indians); cap. Jackson.
Mississippi R. (with its affit, the Missoun, the longest R of N. America), ressun Hascael., Minnesota, and flows through Minnesota, Wisconsin, Iowa, Illinois, Missoun; Kentucky, Arkansa, Tennessee, Mississippi, and Louisiana, to the G. of Mexico, where it emoties by five inoutists. Navirable for 2,000 m. by sippi, and Louisiana, to the G. of Mexico, where it empites by five inouths. Navigable for 2,000 m. by steamboats to the Falls of St. Anthony, Minnesota. Total length of the Mississippi proper to L. Itasca, 2,547 m.; of the Lower Mississippi with the Missouri, about 3,000 m. Ontario, Canada, flows from m. If from Mississippi R., Ontario, Canada, flows from m. If from Missolongin, or Mesolongih, c. on G. of Patras, Greece, p. (about) 10,000. Taken by the Turks and Egyptianis in 1826. Lord Byron died here in 1824. Missoula, c. on Clark Fork of Columbia R., Montana U.S.A., in the military post of Fort M.; seat of Montana Unv.; p. 4500.

U.S.A., in the military post of Fort M.; seat of Montana Univ.; p. 4.500.
Missouri, centl. state U.S.A.; area 60,415 sq. m.; stock-raising, maize-growing, etc., coal and iror mining, pork-packing, etc., p. well over 3,000,000 (5 per cent. coloured). Jefferson c, is the cap, but St. Louis ii. the E. is the chf. commercl, centre, next in importance being the gt. meat-packing Kansas c., on the W. border.
Missouri for Mudl. R., et., afft. ef. R. Mississioni:

Kansas c., on the W. border.

Missourl for Mud) R., gt. afft. of R. Mississippi;
formed by the junction in Montana of the R.'s
judicrson and Madison, flowing through the State of
Dacota, and dividing Nobraska and Kansas from
lowa and Missouri, and finally uniting with the
Mississippi in St Louis. Length including the
Madison) 3.047 m.; navigable 2,400 m. to Fort Benton.
Missouri R. (Little), Frub. of M. R., Proper, length 450 in.
Mistassini, L. within Quebec prov., Canada (noo m.
long), drains by Rupert's R. to James Lay. Mistassinis, or the Little Mistassini L., stretches parallel
on the E. side of the greater L.

sinis, or the Little Mistassuni L., stretches parallel on the E. side of the greater L.
Misterbianco, t. nr. Catania, Sicily, p. 8, 790.
Mistretta, mitg. t. in Mossina prov., Sicily, p. 13,483.
Mitau, or Mitava, tap. of the Russa govt. Courland, on R. Aa. nr. Riga; formly, the resort of the Dukes of Courland; gt. tr.; p. 24,64.
Mitcham, par. in Surrey, Fing., nr. Croydon; lavender and peppermint growing and residentl.; p. 15,948, also suburb. Adelaide, S. Australia.

Mitchell, silver-mining, dist. N.S.W., 15 m. W. of Rydal, p. 4,800; also vil. on R. Thames, Ontario, Canada, p. 2,847; also dist. of Centi. Queensland. Mitchell, Mt., pt. of the Black Mins., N. Carolina, U.S.A., alt. 6,70 ft.; also called the "Black Donne." Mitchelstown, nr. Fermoy, co. Cork, Ireland, p. 4,67. Mitrovicza, old Hungaran t. in Croatia-Slavonia, on site of the Roman Surminia. site of the Roman Syrmium, cap. successively of Pannonia and Illyricum; thriving mod. tr.; p. 11,500.
Mittweida, f. on R. Zschopau, nr. Leipsic, Saxouy; cotton mills, engineering wks; p. 18,120.
Mitylene, or Mythene, Turkish 124, in Ægean S. (the

mirylene, or Myriene, a trikin 13. in Agean S. (the anc. Lesbos), area of \$9. in.
Miya, 59t. on Bayo Ovari, Hondo Isl., Japan, p. 13.433.
Mightiritch, c. in. Kharkov, Russia, p. (indust) 9.477.
Miva, or Malwa, dist. f. in Russ., govt. Plock, in.
Prussn. frontier of Poland; tannenes and gt. grain

Trish, router of roam, and states and graph of trish, 16,361.

Moama, 1. on Murray R., co. Cadell, N.S.W., p. (dist.) Mobberley, par. nr. Altrincham, Cheshire, Eng., p. 1, 548.

[U.S.A.; ry, wkshops; p. 8,500.

Moberly, c. on the prairie, Randolph co., Missouri, Mobile, c. and port. on Mobile R., M. co., Alabania,

Mobile, a and port, on Mobile R., M. co., Alabama, U.S. A.; gt. cotton expt; p. 52,412.

Mocha, or Mokha, fort, spt. t. on Red S., in Yemen, Artha; coffee expt.; p. 52,46.

Modbury, t. nr Plymouth, Devon, Eng., p. 1,580.

Modder River, on border of C. Colony, S. Africa, trh. of Orange R.; battle, Boer War, 1899; sml. t. and rv. stn. et am. S. Kimberley.

Modena, prev. Limila, Italy; area 1,000 sq. m.; p. 32,000; cap. M.; t. m. Bologna, ducal palace (now a mility, sch.); fine town hall, Romanesque (athed).

Terra-cotta and other manuf; p. (commune) 91,000.

Modica, t. nr. Syracuse, Skeliv; cheese, macarom, and sweetmeat factories, p. 43,14

Modica, I. in: Spracine, Sicily; cheese, macaron, and sweetmeat factories, p. 43, 13 Modling, I. in. Vienna, Lower Austria, in the Bruhl valley, sulphur biths, inetal industry; p. 17,883 Moel Slabad, min. Carnarvonsh., Waies, nr. Snowdon,

alt. 2,865 ft Moen, Danish 12. 1 mthe Baltic, area 53 sq. m., p. 15,410. Moeris, anc. artificl. L. m Middle Egypt W. of R. Mile, nr. the modu. Birket-el-karun 135 m. by 7. m.). Moero, or Mwera, L. of Centri. At ica, drams to R. Congo, area 2,700 sq. m.

Congo, area 2,700 sq. m.

Moffat, burgh and health resort Upper Annandale,
Duniriessh., Scotl., p. 2070.

Mogadore, fort. spt. c. on W. coast Morocco, p. 20,000.

Mogalilev, or Mohilev, govt. W. Russ., betwin Minsk
and Chermigov; area 18,521 sq. m. p. mearly 2,000,000

(mostly White Russians), Industries: agr. and stock
kpg., with some manuf.; cap. Moglulev on R.
Dinioper, a walled t. with impt. commerce; p. 45,840.

Mog1-Minm, tradg. 6. São Paulo prov., Brazil, p.

r3,234.
Moguer, f. nr. Huelva, S. Spain: wine expt.: p. 7,645.
Moguer, f. nr. Huelva, S. Spain: wine expt.: p. 7,645.
Mohacs, f. on R. Danube, nr. Funfkirchen, Hungary,
battles 1586 and 1687 with the Turks; gd. mod. tr.;

D. 15.420. Mohava Desert, an extensive sterile tract below sea-level in San Bernardino co , S Carolina, U.S.A. Mohawk R., New York, U.S.A., trib. (175 m.) of R.

Hudson.

fordart, sea loch and coast dist., Inverness-sh., Scott. Moissac, t. on R. Tarn, nr. Montauban, France; fine 

nr. Brindisı, p. 13,648.

nr. Brindis, p. 13,648.

Mola di Gaeta (now generally called by its anct. name of Forma). t. nr. Gaeta, prov. Caserta, ltr'y, p. 8,000.

Mold, t. on R. Alyn, nr. Chester and nı co. Finitsh., N. Wales; one of the Finit Boroughs. collery dist., p. 4875.

[below Prague. Moldau, R. of Bohemia, flows (262 m.) to R. Elbe, Moldavia, 450. of Roumana, between Bessarabna (Russ.) and Austria-Hungary; area 18,000 sq. m.; ch. 7. Iasus.

t. Jassy.

Molenbeek-Saint-Jean, & Brabrant prov., Belgium, one of the communes included in the cap., a great

mftg. centre, p. 61,400.

Molfetta, 591. Barı prov. Apulia, Italy; olive oil and macaroni manuf., gd. est. tr., p. 30,484.

Moliagul, f. gold-fid. dist. Victoria, 11g m. N.W. Melbourne, p. 1894.
Molin, or Mohin, f. in Lauenberg, Schleswig-Holstein, Molina, industri. f. nr. Murcia, Spain, p. 7,182.
Moline, c. on Mississippi R., Rock Isl. co., Illinois, U.S.A.; farm wagon and agr. mp. manuf., p. 24,199.
Mologa, industri. f. Yaroshv govt., Russia, p. 7,424; on Mologa R. (290 m.), a trib. of R. Volga, D. 7,424; on Mologa R. 175. Trassburg, in German Alsace-Lorrame; sword and bayouet factories, p. 4,120.
Moliaceas, or Spice Islas, Dutch grp. betwn. Celebes and New Gunuca m the E. Indian Arch., includg. Amboyna, Cerain, Giolo, etc.; total area oo.450

and New Guinca in the E. Riusan Arcin, menug. Amboyna, Cerain, Giolo, etc.; total area 20,460 sq. m., p. (abt.) 200,000.

Mombasa, 151. oil the E. est, of Africa; hdgrs, of the Brit E.A. protectorate; good harbrs, and naval depot; tr. in lvory, hides, and rubber, p. 27,320.

Momein, or Teng Yueb-chow, L. in S.W. of prov Yun-nan, China, on the Irawadi R., Burmeso Continue coan to foreign it.

frontier, open to foreign tr. Mompoj, or Mompoz, t. on R. Magdalena, Colombia,

Mompoj, or Mooripox, t. on K. Maguatena, Colomboa, Monaco, sint. principality on the Mediterranean in Nice, surrounded by the French dep. Alper Maritimes; area P 8, m. only, p. 19,000; includes the t's of Gondamine, Monaco, and Monte Carlo, famous for its gambing Cassino; beautitud clumare and scenery, Prince's palace on the Rock of Monaco Monaco this Mits. on W. side Strabbsene University.

and scenery, Prince's palace on the Rock of Monado Monadhiath Mts., on W. side Strathspey, Inver-ness-sh, Scott, highest pk. 3,689 ft. Monaghan, mland co. Ulster prov., Ireld.; area 500

donagnan, manu 63. Unser prov., 100m., 2002 sq. m., manuly pastl. and agr., p. 71,395 (more raindly declining than in any other Irish (o.); Moraghan, on the Ulster Caual, is the co. r., p. 2,000.

Monaro, mountain plateau (area 8,335 sq.m.) N.S.W., bordering on the S. Pacha and Victoria, comprising the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murraying deep the highland sources of Murraying deep the highland sources of Murray and Murraying deep the highland sources of Murraying deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland deep the highland d

R.'s. [Austria, p. 4,867. Monasterzyska, industri. 7. nr. Bucracz, in Galicia, Monaster, 597. on G. ot Hammamet, Tunis, N. Africa,

Monastir, or Vitolia, c. of Macedonia, Europn, Turkey, in the Karu Su Valley; many nosques, military hdgrs., great tr. in corn, grain, flour, hides, and woollen stu is. p. 61,220.

Monch (or "The Monk") Mun., Bernese Alps.

Switzld , alt. 13,468 ft.

Monchique, A on the Serra de Marchique, Faro dist., Portugal; baths, sanatorium, exports wine, oil,

Mondonedo, t in I ugo prov , N.W Spain ; cathedl , Mondovi, A. in Cuieo prov. Piedmont, Italy, majohca manuf.; irr is the famous sanctuary ch. of Vico, with a remarkable dome, declared a national

monument; p 9,420.

Monforte, t. in prov. Lugo, Spain; old tower and palace of the counts of Leon; Jesut College. . 12,664.

Monghyr, dist. Bhagaipur div. Bengal, Brit. India; area 3.921 sq m; mdngo mdustry; p. 2,080,483; cap. Monghyr, t. on R Ganges; swords and cheap firearm minut; p 35.000 (greatly decreased.)

Mong Nai, Shan state of Burma, area 2,716 sq. m.;

rice, sugar, and tobacco grown largely; p. 24,320.
Mong Nai, the old cap., has many runned pagodas, but is chiefly built of thatched bamboo (burnt down

1898, but quickly rebuilt.)

Mongoha, terr. belonging to the Chinese Emp., W. of Manchuria, S. of Russian (Siberum) frontier, and N.E. of China proper and Chinese Turkestan; area over 1,250,000 Sq. m.; manily occupied by mth. ranges and the great Gob and other deserts; and inhabited by something like 3,000,000 Mongols, Kalmucks, Tungus, Chinese, and various Turkish tribes; chiefly nonsafic cattle-breeders and traders.

Mong Pai, S.W. Brit. Shan st. Burnus; area (est), 1,000 Sq. m.; hilly, rice-growing country; p. 18,400.

Mong Pan, E. Southern Shan st. Burnus; area 2,299 sq. m.; mth. teak forests, with rice growing on the

Mong Pan, E. Southern Shan St. Burma, area spays sq. m.; mtn. teak forests, with rice growing on the plains by the Salween R.; p. 20,000. [Puy, p. 5,121. Monistrol, t. in Haute-Loire prov., France, nr. Le

Monk Bretton, colly. t. nr. Barnsley, W.R. Yorks,

Monk Bretton, colly. L. nr. Barnsley, W.R. Yorks, Eng., p. 4.783.

Monmouth, maritime co. Eng.; area 534 sq. m., p. 395.778; industries: coal and iron mining, quarrying, manufs., and stock-keeping; co. t. Monmouth, at conflu, of R.'s Wye and Monnow, p. 5.09; also name of cap. Warren co., Ilmois, U.S. A., mifig. t. in colly, regn. p. 8, 123, and a vil, in Monmouth co., New Jersey, U.S. A., scene of a battle during the American War of Independence between Washington and the British troops. [trib. (38 m ) of R. Wye. Monnow, R. of Monmouthsh and Herefordsh, Eng., Monongahela City, Washington co., Penn., U.S. A., on the N. R.; mining and natural gas regn.; p. 5.464, Monongahela R. flows from West Virgima (150 m) to join the Allegheny R. at Pittsburg and form the Ohio.

Monopoli, spt. S. Italy, Bari prov., p. 12,000. Trade deciming through the expansion of Brindist and other railway-tavoured rival ports.

Monovar, t. nr. Alicante, Sprin; gd. trade; p. 8,842. Monreale, t. nr. Palermo, Sicily; magnificent cathedral, the finest specimen of the Sicilian Norman-Saracenic

style, built in the 12th cent.; p. 14,548.

Monroe, c. Onachta par, Louisiana, U.S.A., in cotton growing and pine torest rep., p. 6,214; also c. of Monroe co., Michigan, U.S.A., paper inaching. manuf., p. 5,083.
Monrovia, A. cap. Liberia, at mth. of Mesurado R.,

Africa, p. 5,000.

Mons, industri. & Hamault prov., Belgium, on the Trouville R., in productive coalfield dist, p. 28,100; fine Gothic cathedral and t. hall. 12,410

fine Gothic cathedral and t. hall.

Monselice, mlustri. t. nr. Fadua, Italy, p. (communal)

Monserrat, or Montserrat, a jagged min. nr. Barcelona, Spain (alt 4,000 IL.), with famous monastery
and image of the Virgin.

Monson, f. nr. Springfeidd, Mass., U.S.A., p. 4,189.

Monsummano, industri. t. nr. Lucca, Italy, stalactite
grotto and health rest., p. 7,843.

Montagnana, t. nr. Padua, Italy, p. (communal) r1,258.

Montaibano, t. Baylicata prov., Italy, p. 6,885.

Montaibano, t. in Suna prov., Italy, p. 6,885.

Montaibano, t. in Suna prov. Italy, p. 100 pr. 1

Montalcino, f. in Sicha prov , Italy ; flourishg. industr.,

p. 9,439. Montana, N.W. st., U.S.A., adjoing. Canada, area 145,310 sq. m., two-thirds mountainous, with copper, silver, gold and lead imming, one-third pastoral and

shi er, gold and lead mining, one-third plastorid and agr; p. 37,000, catp. Flek na.

Montanchis, t. nr. Caceres, Spain, p. 4,542.

Montanchis, t. nr. Orleans, Loret dep., France, fine town hall, gd. tr., p. 1,100.

Montauban, t. on R. Tarn, dep. Tarn-et-Garonne; silk mannit, cathedral, p. (communal) galso.

Montbellard, t. nr. Besançon, Doubs dep., France, watch mannif., p. 104,38.

Mont Blanc, mtn. of the Alps, on the confines of Italy and besange budges tak, in hyrope except the

mont Biance, Man, of the Apple of the commerce of the Muchaus, alt. 15,781 ft.

Monthrison, t in France, cap. Loire dep., on R. Vicezy; cretonines and silks, p 7 468.

Montceau-les-Mines, f in 5-doi-cet-Loire dep.,

Montceau-ies-Mines, 7. in Saone-ect-laire dep., France, p. 25,324, weaving, spinning, nictal working, Montclair, 7. on the slope of Watching inti., I see co., New Jersey, U.S.A., residentl, sub. of New York,

Mont-de-Marsan, / in Landes dep., France; drugget

manuf., resin distilling, p. 12,000
Mont d'Or, min grp. Puy de Dôme dep., France, highest pk., 6,188 ft. Monte Carlo, r in the small republic of Monaco, resorted to for its beauty and because of the splendid

gambling casino, res. p. 3,840.

gambing casino, res. p. 3,80.

Monte Casano, mm. n. Naples, Italy, with celebrated Benedictine monastery.

Montecatini, i. in Pisa prov., Italy, nr Volterra, saline mineral baths, p. 5,000: also celebrated mineral lathing res. with large natural vajour baths, in the valley of the Nievole, Lucca prov., Tuscany, Italy, res. p. 7,000, visited by 40,000 persons annually.

Monte Corno, in the Apennines, 70 m. E.N.E. of Rome, alt. 0,83 fl.

Monteflascome, 7 in Rome prov., Italy, on L. Bolseno;

cathedral, p. 6,000.

Montefrio, f. in Granada, Spain, old Moorish fortress:

cotton manuf., p. 10, 263.
Montego Bay, cpt. N. est., Jamaica, p. 6, 120.
Montetth, or Menteith, dist. Pertish., Scotl., contains

Montesta, or Menteith, dist. Perthsh., Scotl., contains L. Montesth (7 m round), with runned castle. Montelene, st. of the Valois Alps, nr. the Simplon Pass, on border of Italy and Switzld., alt. 11,650 ft. Montelene di Calabria, t. m Catanzar prov., Italy. anc. Hipponium and later Vibo Valentium; old castle, p. 13,720. [Brick and file wks., p. 14,285 Montelimar, t. in dep. Droine, France, nr. Valenca Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (industri.) 5,037. Montellano, t. nr. Seville, Spain, p. (indust

from the Adriatic; area 3,630 sq. m., mainly mins, ; chf. industry cattle raising. p. (abt.) 230,000; cap. Cettinge, chf. commcl centre Podgontza, princ. pt. Antıv.ırı

Montepulciano, t. in Siena prov., Tuscany, Italy; famous for wine, mediev il walls, cathedl., p. 3,000. Montereale, fortid. t. av. Aquid., Italy, p. 6,12. Montereau, t. on R. Seine, 31 in. S.E. Paris, France; here Napoleon defeated the Altes in 1814; p. 7,934.

here Napoleon defeated the Allies in 1814; p. 7,954. Monterey, c. cap. Nuevo Leon st., Mexico, gi. tr., p. 00,424, also winter lith res. on B. of Monterey, M. co., S. Carolina, U.S.A., p. 3,500. Monte Rosa, gry. of Pennine Alps on border of Italy and Switzid., highest pk. 15,279 ft. Monte Rotondo, highest min. Corsica, alt. 9,071 ft. Monte San Guilano, min. nr Trapan, W. Sicily, there are the many few forms from the contract of the second state.

the and shrine of Venus Eryama, alt. 2,405 ft. Monte Sant-Angelo, 4, and pilgrun res. in Foggia

prov., Apuha, Italy, p. 20,480
Montespertoli, / nr. Florence, Italy, mfrg., p. 9,010
Montevarchi, industri. t. on R. Arno, Tuscany, Italy,

p. 10,874
Montevideo, 361. c. on Plata estuary Uruguay, cap
of the repub; large foreign tr., exports Indes, tailow,

wool, etc., p. 270,000,
Monte Viso, ph of the Cottian Alps, nr. the French
border of Italy, and 42 ni. S.W. of Tunn, a.c.

Hautes Anja, France, close to the tain, border at Brancon, sit, o, too ft.

Montgomery, inkt co N. Wales, area 797 sq. m. mainly phytoral, p. (decreasing) 53.147, co. t. Montgomery (p. 983): Welshpool is the largest separate municipality, and Newtown the most populous urban dist.

Montgomery, dist Brit. India, Lahore div., Phujah,

Montgomery, dist Brit. India, Lahore div., Pinijah, area 5,754 q. m., wheat growg , camel breeding, slik imanif., cotton-ginning, and lar quered woodwk, p. nearly 5,0,000. cap. M., t. p. 5,510.

Montgomery, c., cap of M. co., Alabama. U.S. A., large tr in timber and cotton, p. 38,150.

Montignes-sur-Sambre, c. m. Mons, Hamaut prov., Belgium, collieries, blast furnaces, pail works, p. 19,512.

[lery and I rouze mainti., 1. 40,110.

Montlucon, t. on R. Cher, dep. Allier, France, c. ut-Montmartre, a hilly, N. sub of Paris, France, p. 37,460.

Montmacdy, fort. t. on R. Chiers, dep Meuse, Prop. 37,460.

Montmacdy, fort. t. on R. Chiers, dep Meuse, Prop. 37,460.

in 1870

Montoro, c. of Andalusia, Spain, nr. Cordoba, on the R. Goadalquivir, oil mills, gd trade, p. 13,472. Montpelier, c. on the Winooski R., Vermont, U.S.A.,

cap, of the st., trainte quarries, p. p, rec.
Montpelllet, c. cap, of Herauli dep, france, 6 m. N.
of Mediterranem, beautifully situated in the vineyd.
dist, gt. tr. in wine and brandy, p. 82,422.
Monte Perdu, p&of the Pyrieness, Aragon dep,

Spain, alt rotogy ft.

Montreal, largest c. in Dominion of Canada, sitd. on an isl same name at conflu, of Ottawa and St. Lawrence R.'s in Hockelaga co., Quebec; the c has many mupt. manuf., and gt. tr., the R. St. Lawrence is crossed by the magnif. Victoria Jubilee bridge.

e.184 ft., and among the princ. pub. bldgs. are the McGill University, the Roman Catholic and Anglican cathedrals, p. (with subs.) 470,480.
Montreuil-sous-Bois, billy E. 1840. of Paris with extensive peach orchards and numerous manuf., p.

33,415, Montreux, vil. on L. of Geneva, cant. Vaud, Switzld., health resort, nr. the castle of Chillon, p. 8,120. Montrose, spt. and bor. (of the M. grp.), Forfarsh., Scotl., chemical and rope wks., p. 10,973. Mont St. Michel, a fort. French rock off the cst. of Normandy, nr. Avranches, with vil. and picturesque

church. Montserrat, Brit. 181. of the Leeward group, West Indies, area 32 sq. m., p. 12,250, climate salubrious, sugar cane, arrowroot, and line culture, manuf. line

sugar cane, arrowroot, and mire cuture, manut, line juice, molasses, essential oils, &c. [p 4.894. Montville, £ in New London Co , Connecticut, U.S.A., Monza, £ nr. Milan, N. Italy, impt. commcl. centre,

Monzie, par. nr. Crieff, Perthsh., Scotl., stone coffins, Fingal's fort, and the reputed tomb of Ossian.

Mookden.—(See Mukden.)

Mooltan.—(See Multan.)

Moon, mins. of the, anc, name applied to the African range of S. Abyssuna. [12,564. Moonee Ponds, subm. dist. Melbourne, Victoria, p. Moorfoot Hills, range in Peebles and Midlothian,

Moorpoot rilling, range in recoites and Middenian, Scotl, alt. 2, 136 ft.

Moosejaw, c. Sakk, Can., p 14,000. [R., 35 m by ro m. Moosehead Lake, Maine, U.S. A., source of Kennebec Moose River, Ontario, flows to James Bay, where also is Moose fort, 200 m. from Montreal.

44,300. Moquedua, cst. dep. S. Peru, area 22,516 sq. m., p. Mora, t. n. Toledo, Spian. manuf; p. 7,8%4.

Moradabad, or Muradabad, dr.t. Roliikhand dir. Mora t. n. wheat, n.c. a.

N.W. Prov., India; area 2,282 sq. m.; wheat, nce, cotton; p. (incrsg.) 1,200,000. Cap. M. c., on R.

Ramganga; p. 76,424.
Morant, t. on S. E. est Jamaica; p. 7,248.
Morant, t. on S. E. est Jamaica; p. 7,248.
Morar, c. nr. Gwahor, c. in native st. of Gwalior,
Centl. India; formly, a Brit. mility. cantonment; (manuf. ; p. 12,237. Moratalla, & in Murcia prov., Spam; rough cloth Morava, R. of Moravia, trib. (212 m.) of R. Danube. Merava, R. of Moravia, trib. (212 in.) of R. Danube.
Moravia, prov. Austrian Emp.; area 8,580 sq. m.;
p. 2,500,000; agr. and forestry are the chief industries; but there is consid. midg and tr.; cap.
Brinn. [with part of Banff and most of Inverness.
Moray, anc. prov., Scot.; included Eigin and Naturn,
Moray Firth, arm of the N. Sea on the Scottish ex.
betwn. Clyth Ness, Cathness, and N. Aberdeensh.
Morbhanj, nat. st. in W. Orissa, Bengal, India; area

4,243 sq. m.; p. 394,628.

Morbihan, cst. dep., France, on B. of Biscay; area 2,739 sq. m. Formed from part of anc. Brittany, Morbihan, cst. dep., France, on B. or mucay; awa 3,739 sq. m. Formed from part of anc. Brittany, it is hilly and marshy; industries, agr., applegrowing, muning, and sardine fishery off coast; p. (increasg.) 560,400; cap. Vannes [p. (dist.) 3,240. Mordialloc, t in Bourke co., Victoria, iir. Mclibourne; Morecambe, cst. wat. pt. N. Lancs., Fig., on Morecambe B. (an inlet of the Irsh S., 18 in. by 30 m.); p. 12,400. [Michoacai st; thing iir.; p. 35,400. Morelia, formerly Valladolid, c. of Mexico; cap. Morelia, formerly Valladolid, c. and Flams, Spain; the Roman Carta Ælia; anc. castle; p. 7,484. Morelaa, ind. cst. Mexico; area 2,774 sq. m.; mainly

Roman Carta Ælia; Anc. castle; p. 7,484.

Morelas, inid. st. Mexico; area 2,774.54, in.; mainly agr. and sugar-cane growing; p. 162,468. Cap. Cuernavaca.

[defeated Austrian host here in 1315.

Morgarten, sr. Lucerne, Switzld.; Swiss Confederates

Morges, t. on L. of Geneva, cant. Vau4 Switzld.;
p. 4,240.

Morlaix, t. in Finistère dep., France; gt. tolacco

Morley, ber. nr. Leeds, W.R. Yorks, Eng.; woollencloth mainuf.; p. 24,285.

Morley, ber. nr. Leeds, W.R. Yorks, Eng.; wooltencloth manuf.; p. 24,26 dinburgh, Scotl; p. 20,182.
Morroco, one of the Barbary states, W. of Algena and
N. of the Sahara, and washed by Mediterranean
and Athanta; area 313,450 sq. m., *traversed by
the Atlas mins.; much desert to the south; p.
6,250,000. Cap. Fez. Morocco city, one of the most
impt. t.'s in the empire, famous for its leather manuf.,
is properly styled Marakesh; p. 40,000.
Meron, industri. l. nr. Guadara, Andalusia, Spain,

S.E. of Seville; p. 17,240; also vil. in Puerto Prin-

cipe prov., Cuba; p. 2,440.
Morpeth, 4. nr. Newcastle, Northumberid., Eng.; in muing dist; p. 7,436 (of parly. bor., 63,079).
Morris, c. of Grundy co., Illnois, U.S.A.; in coal

mining regn.; p. 4,531.
Morrisania, N. sub. New York, U.S.A., on Harlem

Morrisania, N. sub. New York, U.S.A., on Harlem R.; p. 21,420.

Morristown, & Morris co., New Jersey, U.S.A.; p. 21,238. Washington had here his hdgra. 1376 and 1779.

Morshanek, Russn. & on R. Tena, govt. Tamibov; Morsboe, Danish 1sd. in the Lum Fiord; area 138 sq. m.; p. 13,840.

Mortara, & m. Pavia prov., Lombardy, Italy; hats, Mortlake, Thames side \$\rho ex.\ Surrey, Eng.; subn. to London; associated with Oxford and Cambridge boat-race; mainly residentl.; p. 30,379.

Morven, mm. nr. Ballater, Aberdeensh., Scott., alt 2,852 ft.; also mtn. nr. Bernedale, Cathness, Scott, alt 2,313 ft.

alt. 2,313 ft.

Morvi, nat. st. Kathiawar, Gujarat div., Bombay, India; area 821 sq. m., p. 111,87; cap. M., t. on R.

Machhu, p. 16,842. Marcini, p. 10,422.
Marcini, p. 10,422.
Moscolana, L. in Teramo prov., Italy: maint, Moscow, centl. gov. Russ.; area 12,858 sq. m., watered by R.'s Moskva and Yusma; p. 2,25,000-cap. M., c. on R. Moskva, former cap. R. Empire. cap, M., c. on R. Moskva, tornier cap, K. Empire Contains the famous Kreinlin, with Palace of Czars of Muscovy. Seat of M. University; and is the clr commel. c. of Russ. Burned by the inhabitants during French occupatii., 1812; pre: p. abt. 1.000.000.

during French occupatin, 1812; pre: p. abit.
1,000,000. [Rhime.
Moselle, R. (328 m.) of France and Pruss, trib. of R.
Moselle, R. (328 m.) of Russ, afflit of R. Oka.
Moseuto Terr., or Moseutio Coast, dist. of
Nicaragua, from R. San Juan to Cape Honduras,
formerly under Brit, protectin, area 7,000 gd. m.,
cap. Grey Town. p. 6246. Gt. timber export
Moss, spt. t. Norway, on ford 22 m. S. Christania;
Mossamedes, t. on Luttle Fish Bay, Portuguese W.
Africa, Santatorium for Angola prov.; exports ruibber.
Mossel Bay, or Aliwal South, 5th. Cape Col. 5.
Africa. (See Aliwal.)
Mossend, t. n. Glasgow, Lanarksh., Scotl; p. 3,842.
Mossgiel, t. n. Dunedin, New Zealand; woollen
manuf.; p. 1,894.

manuf; p. 1,894.

Mossley, mkt. t. in Prestwich div., Lancash., Eng.;

foundries and woollen and cotton factorics, p. 13,205.

Manchester, Laluash, Moss Side, manuf. dist. S. of Manchester, Lancash

(arrison) 15,646.

garrison) 15,646.

Mosul, t. on R. Tigris, Turkey, cap. of vilayet same name; great commel, centre; p. 40,000.

Motala, t. in Linköping dist. Sweden, nr. the gt Motala tronwks.; p. 3,500.

Motherwell, t. nr. Glasgow, Lanarksh., Scotl., in minl. dist.; bridge bligt, industry; p. 40,378

Mothari, t. in Champaran dist., Bengal, India; gd.

tr.; p. 11,424.
Motril, t. Granada, nr. the est., Spain; sugar-cane and beetroot growing; exports grapes, esparto grass,

figs, etc.; p. 18,240. Mottram, t. nr. Glossop, Chester, Engl.; p. 3,420. Moukden.—(See Mukden.)

Moulins, t. on R. Alber, I rance; cathedral, fine town-

hall, and runed chateau; p. 23,462.

Moulmein, hdqrs, of Amherst dist, and Tenasserm div. Lower Burma; exports teak, rice, etc.;

div. Lower During, Special College, 19, 65,000.
Moulsey, E. and W., vils. on R. Mole, Surrey, Eng.; Moundsville, c. on Ohio R., Marshall co., W. Virginia; numerous manuf.; p. 6,486.
Mount Adams, ph. White Mountains, New Hampshire, U.S.A.; alt. 5,679 ft.
Mountain Ash, ming. A. nr. Aberdare, Glaniorgansh, W. Marshall College, 19, 19, 260.

Wales: p. 33,697. [p. (dist.) 2,760. Mount Britton, goldfid. Oueensland, nr. Mackay:

Mount Carmel, bor. Northumberland co., Penn., U.S.A., on Wabash R.; gt. tr. in anthracite coal, p. 14,560, (co. on Clinton K.; min. springs; p. 7,435. Mount Clemens, c Michigan, U.S.A., cap. Macomb Mount Desert, izi. of cst. of Maine, U.S.A., area

Mount Desert, 1st. off cst. of Maine, U.S.A., area no m., intnous.; summer rest; res. pop. 8,60.

Mount Egerton, gold-mining t. nr. Melbourne, Victoria; p. (dixt.), 3,140.

Mount Gambler, t. co. Grey, S. Australia, nr, Port Macdonnell, p. 2,807.

Mount Mellick, mkt. t. Queen's co., Leinster, Ireld., anciently called Ballycullin, "the town in the woods," p. 3,170.

[Ir. Rockhampton, p. 11,460.

Mount Morgan, gold-mining to. Raglan, Queensland, Mount Morris, vil. New York, U.S.A., Livingstone

co., p. 4,120. Mountrath, mkt. t. Queen's co., Ireld., p. 1,860. [wide. Mountrath, nkt. A Queen's co., Ireld., p. 1,866. [wide. Mourt's Bay, nde on S. coast Cornwall, Fing., 20 m Mountsorrel, e Len estersh., Eng., p. 2,485. [p. 5894. Mount Sterling, c. Montgomery co., Kentucky, USA., Mount Vernon, c. Jefferson co., Illinois, U.S.A. in iaring, regn., p. 6,120; also c. on Olno R., Posey co., Indiana, U.S.A. v., centre, p. 5,461; also c. on Irons R., Westchester, co., New York, U.S.A., subn. to N.Y. c.; p. 3,0591; also c. on Kokosing R., Knox co., Olno, U.S.A., jurniture and waggon manul., p.

Moura, walld. t. in Algarve, Portugal, p. 5,047.

Moura, walld. t. in Algarve, Portugal, p. 5,047.

Moura Mtns., co. Down, Ireld; highest pk. 2,706 ft.

Mourzouk, t. in the Fezzan Oasis, Tripoli, N. Africa; tr. centre; p 8,462. [wool wcaving; p 20,504.]

Line Deleum: cotton and MOUTZOUK, t. in the Fezzan Ogais, Tripoli, N. Africa; tr. centre; p 8,464. [wool wcaving; p 20,864. Mouscron, t. in W. Flanders, Belgum; cotton and Mouse Water, R. of Lanarksh, Scuth, trib. (4 m.) of R. Clyde; Mouse, or Souris R., Canada and U S A. (500 m.), trib. of R. Askinbone. [1,848. Moville, mkt. t. co. Donega], Irel., on Loch Foyle, p. Moy, R. cos. Mayo and Sigo, Irel., flows (35 m.) to Killala B. Moville and the Challegour.

Moyohamba, t. nr. Chachapovas, Peru, p. 8,260.

Mozambique, Portuguese possn. E. Africa, basin of the Zambesi R., and from C. Delgado N. to Delagoa

the Zamberi K., and from C. Deigndo N. to Delagodo B. on oct.; area 382,680 sq. m., p. (est.), 2000,000, cap. M. on sml isl. nr. cst.; p. 7,000. The Mozanique channel less betwn. Madagascar and Port. E. Airica, 1,000 m. long by 250m. wide at narrowest part. Mozyr, t. on Pripet R., govt. Minks, Russ.; impt. tr. centre; p. 14,820. [Novgorod to L. Ilinen, Msta, R. of Russ, flows (250 m.) in govts. Tver and Mizensk, mftg. t. on R. Zusha, govt. Orel, Russ., p. 18,042.

18,943. [p 14,250 Mubarackpur, t Azanıgarı dıst, N.W Provs, India, Much Wenlock, ınkt. t Shropsh, Eng. (SeeWenlock.) Much Woolton, industri t. nr. Liverpool, Lancash.

Eng., p 4,320.

Mudana, t on est. S. of Marmora, Asia Minor, port for Brusa; the anc. Myrlea, ohve-oil export; p 4,800.

Muhalitch, or Mikhalitch, t. nr. Brusa, Asia Minor;

extensive tr.; 10,408. [India, p. 0,831. Muhammadabad, /. in Azamgarh dist., N. W. Provs., Muhamrah, t in prov. Arabstan, Persia, on the Haslar Canal; impt tr. and customs statn.; p. 5,000.

Muhlhausen, t. on R. Ulstiut, Prussn. Saxony, nr.

Erfurt; formerly a free mpl. c.; woollen and cotton

manuf.; p. 26,689.

Muirkirk, ning. and mftg. t. Ayrsh., Scotl., p. 6,043

Mukama, t. on R. Ganges, Patna dist., Bengal, India,

p 14,108.

Mukden (Chmese "Shingking"), walled c., cap, of
Manchuria, on the Liao R., 110 m, N.E., of its port

Mauchuria, on the Liao R., 110 m, N.E. of its port Newchwang; great commerly and political centre; formerly the cap. of the Manchu dynasty, and contains the royal tombs; p, allout 250,000.

Mula, t. nr. Murcia, Spain; gd. tr.; p. 11,420.

Mulde, R. of Saxony and Anlalt, Germany, trib. (137 m.) of R. Elbe, [shall isl, grps. in Pacific, Mulgrawe Arch, collective name of Gilbert and Mar-Mullacen, mrm. of Sierra Nevada range, Spain, alt. 11.663 ft. [industry centre, p. 987,400.

mulinacem, *******. or Sierra Nevada range, Spain, art. 11,659 ft. [industry centre, p. 98,740. Milhausen, f. in Alsaco-Lorrane, Germy; gt. cotton Milheim am Rhein, mfg. f. in Rhemsh Pruss., nrly. opp. Cologne, p. 57,260. [in: Dussellorf, p. 40,840. Milheim-am-Rhur, mfg. and tr. f. Rhemsh Pruss., Mull, fr. f. of W. Scoti., included in co. Argyll, one of the largest of the Hebrides; area 357 sq. m., p. 4,800;

chf. t. Tobermory. The Sound of Mull (12 m. wide) separates the isl. from Morern.
Mullinger, mkt. f. (and co. f.) Westmeath, Ireland, on R. Brosna; p. 4,500.
Multan, or Mooltan, disf. Lahore div. Punjab, Brit.

Multan, or Mooltan, "sst. Lahore div. Punjab, Brit. India; area 6,076 sq. m; wheat, millet, cotton and indigo; cotton-ginning mills; p. (steadily increg.) 750,000; cap. M.c. or. R. Chenab; carpet and silk manuf, mil cantomnt; p. 76,480. Mumbles Head, point of cst. of Glamorgan, Wales, W. of Swansea B. [Dusseldorf; p. 56,080. Winchen Gladhach, mftg. L. Rhemish Pruss, nr. Muncie, L. on White R., Delaware co., Indiana, U.S. A.; iron, steel, glass, and paper; p. 25, 100. Munder, L. on R. Weser, Hanover, nr. Göttingen; runned castle; p. 2,82.

Munder, I. on R. Weser, Hanover, nr. Götingen; rumed castle; p. 7,843.
Mingeradorf, industri I. nr. Cologne, Pruss., p. 8,897.
Muntch, or Minchen, cap. E. Bavaria, on R. Iser; many splendid bldgs., famous art galleries, royal palace, archiepiscopai cathedli, university, etc.; fiouristig, cominerce and manuf., specially noted for beer-brewing, p. trapidly increasg. Jwell over 600,000.
Munkacs, old corporate I. nr. the Latoreza, co., Bereg, ilungary; cathedral and beautiful castle; p. 16.220.

16.220.

Bereg, Hungary; cathedral and beautiful castie; p. 16,230.

Munster, prov. S.W. Ireld., embracg. cos. Waterford. Cork, Kerry, Lumenck, Clare, and Tipperary; area 9,475 Sq. m. (see cos. separately). Also name of a t. in Gernuy. Alsace-Lorraine. calkon manuf.; p. 6,894.

Minster-am-Stein, wot. pt. on R. Nahe, Pruss.; brine springs; with runs of Rheimgrafenstein Castle and Eberburg Castle, res. p. 854.

Munsterberg, t. on K. Olilan, prov. Silesia, Pruss.; brick and the making; p. 8,474.

Mur, or Muhr, R. Austra, trib. 1250 m.) of R. Drave; rises in Sabburg, and flows through Styria and part of W. Hungary.

Muradabad. (See Moradabad.)

Murchison Falls, on Sluré R., Brit E. Africa, nr. Albert Nyanza L. Mirichison (Mt.) peak of kocky Mts., Brit Columbia, Alberta terr., alt. 13,500 ft. Murchison R., W. Austraha, flows (800 m.) S. W. to Gantheame Bay; on its bank Mt. Murchison, alt. 1,600 tt.

1.600 ft.

Murcia, old kingdom and prov. S.E. Spain; now the provs of Albacete and Murcia; area of mod. prov. Murcia, 4,478 in., bordering on Mediterranean. ref. in metals, espec argentiferous lead, p. 524,600; cap. M., c. on k. Segura; silk and other industries; fine Reminsance rathed; p. 111,460.

Murfreesboro, r. Rutherford co., Tennessee, U.S.A., scene of Stone R. battle. Civil War, 1862-1863, Confederate retreat; p. 4,100.

[R. Rhine.

Murfreesboro, c Rutherford co., Tennessee, U.S.A., scene of Stone R. battle, Civil War, 1862-1863, Confederate retreat; p 4,100.

Murg R. of Baden and Wurtemberg, trib. (ap. m), of Murgab, or Murghab, R. of Afghansstan and Assatic Russ., flows (250 m) into Klines and past Merv until lost in desert swamps [N.W. Berlin, 18 m. long. Muritzsee, L. Mecklenburg-Schwerin, Germy., 60 m. Murom, c on R. Oka, Vladmur govt.; manuf.; p 17,485 [co. Illinos. U.S.A. p. 8.255.

Murphysboro, industl. c. on Bigmuddy R., Jackson Murray R., the prin. R. of Australia, separties N.S.W. and Victoria, and flows (1,250 m.) to L. Alexandrina and Encount P. B., in. the Coorong, S Australia; also nance of large dist. N.E. Victoria between Australian Alp. and Gippsland and the Murray R. Murree, Santorium in Rawilpind hill dist. of the Punjab, India, 7,453 ft, above sea-level; has botels and the largest brewery in India; res. p (exclusive of military) 2, 100; has large summor floating pop. Murrumbidgee, R. of N.S.W., bown (1,350 m.) to the Murray R., after recg the waters of the Lachlan R.; Murrumbidgee N. of N.S.W., betwn. the R. Murray and Murrumbidgee.

Murrurundi, L. N.S.W., on the Laverpool min, range, 1020.

Murrumbidges

192 m. N.S.W., on the Liverpool mtn. range,
192 m. N.W. of Sydney, p. (dist.) 1,184.

Murshidabad, dift. in the Bengal Pres. Brit. India;
187 area 2,144 sq. m.; silk and midgo industries;
19 1,400,500; cap. M., t. on the Rhagirathi (old sacred
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10 1,000,500; cap. M., t. on the Rhagirathi (old sac

Murtoza, & and fishg. centre on lagoon nr. Aveiro, Portugal, p. 10,470.

Murveidro, fort. f. nr. Valencia, Spain; the anc.

Murveidro, fort. 4. nr. Valencia, Spain; the anc. Saguntuni, p. 6,424.

Murwara, 4. Jabahpur dist., Centl. India, p. (Indust.)

Murwillumbah, 4. nr. the Queensland border and the S. Pacific cat, N.S. W., p. (dist.), 1.89.

Musa Jebel, man. Arabia Petraea (ait. 7,375 ft.) identified with Shai, or Mose Mount, of Scripture, by some.

Musardu, 4. in French W. Africa, old cap. of the M. Andingo nation, p. 8,400.

Muscat, 4. on the G. of Oman, Arabia, cap, of the old kingdom of Oman, and a chif centre of Arabian tr., p. (est.) 40,000. one of the hottest places in the world kingdom of Oman, and a chif centre of Arabian tr., p. (est.) 40,000. one of the hottest places in the world Muscatine, 2. of Muscatine co., 10xa, U.S.A., on R. Muscoy, name applied alternatively to Russia.

Muscogee, 4. m. the Creek Nation, Indian Terr., U.S.A.; p. 32,978. (timber works and tr., p. 24,000.

Muskeron, c. on M. L., M. co., Michigan, U.S.A.; Muskeron, c. on M. L., M. co., Michigan, U.S.A.; Ohio.

Onio
Masseburgh, t. on R. Esk, nr. Edinburgh, Scotl., of
which it may be reckoned a seaside suburbl golf
links; joins with 1 enth as a parly burgh, p. 15,938.

Massel Shell R., Montana, U.S.A., tnb (300 m.) of

Missouri,

Massomelli, mftg. 4. nr. Caltanisetta, Sicily, p. 11,243.
Mussoori, or Masuri, f. and sanatorium, Dehra Din hill dist, N.W. Provs., India, 6,500 fr above sea-level, adjoining Landuur, the Lower Himidayan conva-lescent depth for Brit. troops, and nr. the Chakrata

leacent depot for Brit. troops, and nr. the Charles eantount. p. 12,000.

Mustapha, a rub of Algiers c., p. 13,142.

Muttra, or Mathura, dss. Agra div., N.W. Provs., India; area 1,441 sq. m., p. 770,000; cap M. C., on the Junna R., a holy place of the Krislina cult, with carved Hindu temples, bathing stars, &c. p. 59,860.

Muzaffargarh, dss. Derajat div., Punjab, Brit. India; area 3,422 vq m., p. 410,000 (increasing); cap. M., c. on the R. Chenab, p. 3,264.

Musaffarnagar, dss. Meerut div., N.W. Provs., Brit. India; area 1,645 so. m., p. 600,500 (increasing); cap.

musanarmagar, ass Meerut av., N.W. Provs., Brit.
India; area 1.695 62, m., p. 00,000 (increasing); cap.
M., t. on the N.W. Ry., p. 21,180
Muzafarpur, dist. Patua div., Bengal, Brit. India;
area 3,003 sq. m., indigo and opum culture,
p. 2,75,000; cap. M., t. on Little Gandak R., p. 4,5 too.
Muzar, t. nr. Baikh, Bokhara, p. (est.) 24,000
Muz Tagh, mtn. pars over Karakorun r.unge, E.
Turkestau, alt. 18,090 ft.
Muzaova. or Mowanwa. t. in Usacara. German E.

Turkeskai, alt. 18,980 ft.

Mwapwa, or Mpwapwa, t. in Uvagara, German E.

Africa, on tr route from Bagamoya to interior.

Mweelrea, mtn co. Mayo, Irel., alt. 2,688 ft.

Mweru, Lake. (See Moero.)

Myaungmya, dist. Irawath div., Lower Burma; area
3,005 80, m., p. 320,560; chief t. Patanawa; Myaungmya f. has, p. 2,400

Mycenæ, celebrated ruined c. of Morea, Greece, nr.

Argos. The chief objects discovered in excavations
on the site are m a nuseum at Atheus

Myconus, or Mykonos, is! of the N. Cyclades, in the

Argean Sea, Greece, p. 4,000.

Myelat, div. of Southern Shan States, Burma; area 3,723 sq. m. : produce, rice and sugar ; p. uncertain.
Mying yan, dist. in Meiktila div., Upper Burina ; area

Myingyan, stst. in Meiktila div., Upper Burma; area 3.19 sq. m., p. 50,000. Myffkyina, stst. Mandalay div., Upper Burma; area 10,40 sq. m., p. 50,000. Myffkyina, stst. Mandalay div., Upper Burma; area 10,40 sq. m.; forest and failow predomnate; p. 68,000. Hdgra. t. M., on the Irawald, Mas a p. of 1,500 (including 400 mil. police). [Göltssch. p. 7,146 Myiau, or Muhau, t. nr. Plauen, Saxony, on R. Mymensingh. (See Maimasingh.) (2,000 m. Mymydd-mawr, ssts. nr. Camarvon, N. Wales, alt. Mymdowitz, mfig. t. on R. Pizensa, nr. Cracow, Pruss. Silessa, p. 11,240. Mysore, nr. 12,40 m. longh N. Geram, Malay Mysore, nat. st. Southn. India, enclosed by Brit. terr.; area 20,444 sq. m., p. over 5,50,000. Coffee planting, gold mining; Brit. mil. cantomnent and hdqrs. of Admin. at Bangalore (g.w.). Cap. Mysore, c. nr. Seringapatam, p. 7,306.
Mytho, fortid. t. in French Cochin China on R. Mekong,

Mzczonow, industri. t. nr. Warsaw, Russ. Poland, p. Mzensk. (See Mtzensk.)
Mzensk. (See Mtzensk.)
Mzombe, R. Germ. E. Africa, trib. (zro m.) of R. Rusha. Mzymta, R. of the Caucasus, Russ., flowing (80 m.)
past Romanovskoe and Liesnoe to the Black Sea.

Mytholmroyd, mftg. vil. on R. Calder, nr. Halifax, W.R. Yorks, Eng., p. 4.152.
Mytlicae (clasvic Lesbos). (See Mitylene.)
Mzab. digl. of Algeria, with R. same name; chf. t. Gardala.
[6,256.

Naab, R. Ratisbon. R. Bavaria (90 m.) crosses R. Danube nr. Ratishon. [p. 5,874. Naaldwyk, mftg. vil. nr. Rotterdam, S. Holland, Naarden, r. nr. Amsterdam, S. Holland, destroyed by

Spaniards 1572, p. 3,124.
Naas, 4, in co. Kildare, Ireld., former can. Leinster,

p. 3,800.

Nabah, or Narba, nat. st. India, in the Punjab, area 935 sq. m. p. 300,000; cap. N., t. S. of the Sutlej,

ogo Sq. III., p. 300,000; cap. N., t. S. of the Suriej, p. 18,400
Nabal, c. nr. Hammamet, Tunis, tr centre, p. 8,688.
Nablus, or Nabloos, c. Palestune, nr. Jerusalein, the anc. Shechein or Sychar, and later Neapolis, former cap. Saniaria, coap manuf., p. 20,000; Jacob's Well and Mt. Gerzim adjas ent.
Nabua, c. Ambos Camarines prov., Luzon, Philippine Like, interforage novel. p. 12,424.

Isls, inkt. for agr. prod., p. 17,245.
Nachod, J. in Bohemia, Austria, on R. Mettau at entee to Lewin Nachod Pass nr. the Pruss. frontier, old castle, Pruss. victory 1866, cotton-spinning,

dd dawis, etc. p. 10,120. |adia, Nadiya, or Nuddea, dist. Presidency div., |lengal, India, area 2,982 ed. m., indigo, p. 1,609,500; cap, Krishagar, former cap, Nadia, t. on R. Biagrathi, p. 15.000, Soy, Nadia, t. on R. Biagrathi, p. 15.000, Nadiad, c. Kara dist., Ahmadabad, Bombay, India, Nadol, c. in Jodhpur st., Rajputana, India, ruined temples.

Nadudvar, mftg t. nr. Debeczin, Hungary, p. 8, 200 Nadworna, t. Austrian Galicia, nr. Hanislaliw, p. 6,894. [mcdlieval t. hall, p. 8,002 Næstved, mkt. t. co. Præsto, Zealand, Denmark, Nafa, or Napa, 59t. in Liu-chiu isl., Japan, p. 35,482,

gd. trade.

Nafels, vil. on R. Linth, cant. Glarns, Switzld.,
nr Zurich; here in 1388 the Austrians were repelled
by gallant Glarus natives. [the Wolds, p. 1,860.

nr Zurich; here in 1988 the Austrians were repelled by gallant Glarus uatives. [the Wolds, D. 1, 260. Nafferton, \$20. nr. Driffield, E.R. Yorks, Eng., on Naga Hills, The, \$dixt. in Assam, Intella, area 5, 770 sq nr., 5parse D. 1020,000); cap. Kohima, p. (exclusive of Ghurka garrison), 1,824. Nagambe, t. co. Morra, Victoria, p. (dist.) 2,250. Nagar, \$dixt. Mysore st., India, area 11,622 sq. m., p. 1,290,000, embraces Chitaldrug, Shimoga, and Kadur dists. (q. v.); also name spt. Tanjore dist., Madras, India n. 8 206. 1.290.000, embraces Chualdrug, Shimoga, and Kadur dists. (9.2); also name spt. Tanore dist., Madras, India, p. 8.206.

Nagasaki, flourishg. spt. c. on Kut-slu isl., great to. Nagna, t. Bijnor dist., N.W. Provs., Brit. India, sugar tr., gun manuf., p. 24,600.

Nagode, nat. st. Bagliekhand agcy., Centl. India, area 450 50, m., p. 84,500. suffered severely from famine 1896-97; cap. Unchehra, former cap. Nagode, nr. Sutna, which was a military cantonment.

Nagoya, d. m Owari prov., Hondo, Japan, thriving cap., great tr., chief ceranic industy. centre, also cotton and slik factories, p. 92,680.

cotton and silk factories, p. 295,680.

Nagpur, div. (area 24,127 sq. ni., p. 2,750,000), dist. and c. in Centl. Prov. India, inpt. weaving indust.,

and c. in Centl. Prov. India, impt. weaving indust., fort, arsenal, and mil. cantonnts: p. 13,000.
Nagy Abony, mftg. t. nr. Pesth, Hungary: p. 13,012.
Nagy Banya, minmg t. (gold, silver, lead) nr. Szatmár, Hungary; beautiful pk.; p. 12,820.
Nagybeckerek, indust t. on R. Bega, nr. Temesvar Hungary; p. 28,424.
Nagyenyed, t. in Alsó-Fehér co., Transylvania, Hungary; on R. Maroa; wood carvg., educational centre; famous for whee in midd. ages; p. 7,862.
Nagyhtroly, t. (industl. and educnt.) nr. Debreczy, Hungary; castle of Counts Károlyi; p. 16,023.
Nagykata, mkt. t. nr. Pesth, Hungary; p. 6,223.

Nagykikinda, é. in Torontál co., Hungary; flour and fruit tr.; p. 26,226. Nagykóros, industri. é. in co. Pest-pilis-Sólt, Hungary, Nagyszeben, or Hermannstadt, industri. é. m Szeben

Nahant, summer ret. on Mass. Bay. ESSER CO., roass., U.S.A.; res. p. 1,420.
Nahe, R. Germany, flows 69 m. to R. Rhine nr. Bingen, Nahant, or Nyehattee, t. in the Parganas, Bengal, India; gd. tr.; p. 22,453.
Nallsea, par. nr. Taunton, Somervet, Engl.; p. 1,894.
Nallseworth, t. nr. Stonehouve, Glouc, Engl.; p. 3,037.
Nain, settlemet. Moravian Brethn., E. cst. Labrador; also Galllean t. (the mod. Nem) scene of the miracle of raising the widow's son.

Nain, settlemet. Moravian Brethin, E. cst. Labrador; also Galilean t. (the uniod. Nem) scene of the untracle of raising the widow's son.

Nain Tal, stst. Kumaon, div. N.W. Provs., India; area 2,658 sq. m.; p. 305,000. The t. of N.T. stands on mth. lake, alt. 6,40 ft. above sea, p. 12,500.

Nairn, mar. co. Scott., on Moray F. between Elgin and Inverness; area 200 sq. m.; p. 9,319; cap. N. burgh (one of the Inverness Parly, grp.), p. 4,601.

Nairobi, cop. of prov. Ukamba, B. L. A., 327 m. from Mombass, also chief seat of govt., a centre of the Uganda Ry., and for big game shooting; p. 14,000.

Najibabad, č. Bijnor dist., N.W. Provs., India; tr. in tumber, sugar, etc., metal manuf, p. 20,120.

Nakhichevan, industri f. n. govt. Erwan, Transcaucasia, Russ., p. 6,840; also t. on R. Don, Vekaterinosiav govt., Russin; founded by Armenian emigrants; flourishg tr., p. 24,524 [p. 8,043]

Nakodar, tr. f. n. Punjab, India; nr. Jalandhar; Nakskov, spt. co. Maribo, isl. Laaland, Demmark; sugar refg., p. 8,697.

Namagan, or Namangah, judustl t. on the Sir Daria, Fergana, Turke-stan A-stat. Russia, p. 38,240

Namaland, or Namangah, judustl t. on the Sir Daria, Forgan, Turke-stan A-stat. Russia, p. 38,240

Namaland, or Namangah, industl per Condent of Cape.

from the Atlantic cst, to Kalahari Dest.; area rea,000 sq. m. Little Namaland is a dist. of Cape Col., S. of the Orange R

Namdiah, impt tr. /. in French Tonquin, p. 52,400.
Namoi, R. (270 m.) m N S W, trib of R Durling.
Namslau, industl. /. on R. Weiser, Silesia, Press.,

p 6,430. Namur. Namur, prov. Belgium bordg, on France; collieries, woodland; area 1,414 5q m., cap. N., fort. c. at confi. Meuse and Sambre R 's, p 3,4524
Nanaimo, t. on Vancouver Isl., Brit. Columbia, colly.

Names of Hajdu Nanas, industl. / nr Debreczin, Names, or Hajdu Nanas, industl. / nr Debreczin, Names, ang. c. on Kan-Kuag R., Nankung, China, gt. tr., p. (est.) 120,000. [industrl., p. 115,450, Nanche, r. nr. Yenkow, Chi-Kiang prov., China, Nancy, old cap, Lorraine, and pres chi. f. of French dep. Meurthe-et-Moselle, gt. industrl. activ., the inhabitants includg, many Alsatians from the conquered prov., p. 120,450

numantans in the con-quered prov., p. 120,460 Nandalr, č. in Hyderabad, India, tr centre, p. 15,150 Nandgaon, trib. sc. Chattusgarh div., Centri Prov., India, area 905 sq. m., p. 126,000, cap Raj-Nandgaon, cotton mill.

Nandidrug, div. Mysore st., India, embracing Banga-lore, Tumkur and Kolar dists., area, 8,212 sq. m.,

p. 1,55,500. Randod, cap. c. of Rajpipla st., Bombay, India, nr. Surat, good tr., p 17,56.
Nankin, or Nanking, gt. Chinese c. on Yang-tse-Klang, cap. Klang Su prov., and a famous seat of learning and industri. activ. p. (est ) 26,000 containts the Ming tombs, or mausoleums, of founders of the

the Ming tombs, or mausoleums, of tounders or the Ming dynasty.

Nan Ling, or Sing, mm. chn. betw. Yang-tse-Kiang basin and that of the Si Kiang, China.

Nanning, treaty #t. on West R., Kwangsi prov., China, chf. mkt. on S. frontier, p. 20,000.

Nantesre, t. nr. Paris, Seine dep., France, noted for cakes and aluminium manuf., p. 25,100.

Nantes, t. in Britany, cap. Loire-inférieure dep., France, on R. Loire, bisct. and fish preserve manuf., wood pulp, bell foundries machine works, stained glass, nursery gdus., p. 270,280.

Nanticoke, f. on Susquehanna R., Luzerne co., Penn., U.S.A., in anthracite coal country, p. 17,216. Nantucket, 15l. f. and pf. of entry, N. co., Mass., U.S.A., summer res., p. 4,116.
Nantwich, mkt. f. on R. Weaver, Chesh., Eng., brine bashe leanable for hinter, country, p. 2,816.

baths, ironwks., fox-hntg. centre, p. 7,816.
Nantyglo, industri. vil., nr. Abertillery, Monmouthsh.,

Eng. p. 14,214.

Napa, or Napha, 5%, in Lin-Chin isls,; also t. on N. R., California, U.S. A., soda springs, p. 4,48c.

Napier, £ ou Hawkes Bay, N. Zealel, fine esplanade,

Mapier, A on Hawkes Lity, N. Zealel., fine esplanade, p. 9,584.
Maples, most pop. c. in Italy, on B. of N., at ft. of Vesuvius, opp site of anc, Pompeni, suctuary of Madonna di Pompeli, grotto of Pozzuoli, Castel del Ovo, grand cathedl, votive ch. of San Francesco di Paola, monasty, of San Martino, many museums and pub. instrus, impr. Shippg, and mainf, subject to earthquakes (isl. of lischia devastated 1883) and volcans equation.

earniquases (is. of technic devastated 1883) and vol-canic eruptus. p. 724.00 (of prov. 1,500,000) Napoleon, 20/ on Maunine R., Henry co., Ohio, U.S.A., p. 3.846. Nara, f. Yamato prov., Niplion isl., Japan, nr. Kioto, shrines and temples, colossal image of Buddha, p. 31.400, old cap. of Japan, when it had a p. ot

Naraingany, tr. t. in Dacca dist. Bengal, India, p.

23.120. Parandera, t. on Murrumbidgee R., N.S.W., Parandera, t. on Murrumbidgee R., N.S.W., Parandera, t. on Murrumbidgee R., N.S.W., Marandera, t. Contl. Provs., India, area 17.573 sq. m., embracg. Nimar, Betul, Chhindwara, Narsinghpur, and Hosangabad divs., p. 1.800,000; also R. betwn. the Deccan and Hindustaii, flowing Roo m. I from Rawa to the Asshance Co.

1,800,000; also R. betwn. the Deccan and Hindustan, flowing (800 m.) from Rewa to the Araban Soa.

Narberth, A. nr. Tenby, Pembrokesh, Wales, one of the Pembroke Boroughs, p. 1,246.

Narbonne, t. dep. Ande, France, famous for honey; an impt. c. of the West Goths, captured by the Saracens in 719, and by the Franks in 759, p. 29, 120.

Nardo, industri A nr Gallipoli, prov. Lecce. p. 14,104, cotton manuf. [Adriatic, Narenta, R. of Herzegovina, flows (140 m.) to the Narey, R. of Poland and W. Russ., flows (200 m.) to

R Bug, nr. Warsaw.

R Bug, nr. Warsaw.
Nariad, č. in Kavia dist., Bombay, India, nr. Athmadabad; tr. centre, p 29,460.

[p. 13,000.
Narni, č. in Penipa prov Umbria, Italy: cathedral.
Naro, č. ncar Grgenti, Sichi, Italy: industri, p. 11,489.
Narracan, č. Victoria, nr. Melhourne, p. (dist.) 5,140.
Narracanatt Raw inlet of the Atlantic off coast of NATTACAN, VICTORS, III. MEDIOUTIE, II UILS, 15,140.

NATTAGANSET BAY, INITE Of the Atlantic, off Coast of Rhode Isl, U.S.A.; N juer, on R. Isl., is a popular summer resort in Washington Co., R Jsl.

Narsinghgarh, nat. st. Bhoyal Agev., Centl. India.

area 623 Sq. m., p. 117,560; N. t. p. 8,500 (declining); has some tr.

Narsinghpur, dist. Narbada div Centl Provs., India,

area 1,316 84. m. mainly agr, p 313,750 (declining); Darva, ft. c on R. Singri, p 0,225 Narva, ft. c on R. Narova, Russ., founded in 1223 by the Danes; cathedl., textile factories, p. 19,480. Narvacan, c in prov. S. Ilocos, Luzon. Philippine

Isls., in fertile mtn. surrd. valley, good tr. and cotton

naut, p. 16,400.

Naseby, wil. 12 m. N. of Northampton, Eng.; at Nacoby Field was fought the decisive battle of the Civil War in 1645, Cronwell and Fairfax defeating the Royalists.

Nashua, c. on the N. R., New Hampshire, U.S.A.,

Nashua, c. on the N. R., New Hampshire, U.S.A., cotton, paper and irou works, p. 52,450.

Nashville, c. on the Cumberland R., Tennessee, U.S.A., cap. folke State; fine capitol and other pub. bldys., gf. timber tr. and impt. manuf., universities and colleges, p. 110,428.

Nasielak, f. nr. Warsaw, Poland, industri., p. 6,230.

Nasielak, f. nr. Warsaw, Poland, industri., p. 6,230.

Nasirabad, r. nr. Warsaw, Poland, industri., p. 6,230.

Sey. nr. agr. and cotton weaving industries, p. 615,600; cip. N., o on the Godaven K., a holy place of the Hindus, p. 25,300.

Nasirabad, hdurs. f. of Mainiansingh dist. on the Brahuaputra R., Rengal, ladia, p. 14,500; suffared severely by carthquake, 1897; also t. in Khasadesh dist., Bombay, India, p. 10,843; also t. and cantonment Ajmere, Rajputana, India, p. 23,428.

Naso, t. nr. Messina, Sicily, industr., p. 10,120.
Nassau, t. on Ik. Lahn, m. Wiesbaden, Pruss.; ruined castles; p. 1800. Also name of a former Duchy of Germy., on the Rhine, now mcorporated in Hesse-Nassau; also c. on N. Provdence Isl., in the Bahamas; health rest.; p. 12,100. The Nassau or Poggy Isls. (two) lie W. of Sumatra.
Natal, Brit. 20l. in S. Africa, betwn. the India. Oc. and the Drakenberg intiss. N.E. of Cape Col; area (includg. Zululand and the Brit. Amatungaland Protectorale) is 27, 27, 27, 27, 27.

(includg. Zululand and the Brit. Amatungaland Protectorate) 35, 79: 80, m.; minous, terraces, with a fertile semi-tropical cst. belt: p. over x,191,000, only 54,000 of whom are Europeans. Cap. Pieternaritzburg: chf. port, Durban. Exports wool. coffee, ivory, sugar, hides, ostrich feathers, etc. Also name of at in Brazil, cap. Rio Grande do Norte; rubber and other exports; p. 62,800; also t. on cst. of Sumatra.

on cst. of Sunatra.

Natanz, *prov. Persia, in hill country betwn. Kashan and Islahan; famous for pears and other fruit.

Cap. N., a large Highland vil, with old mosque; p. 3,264. [M.: in rich cotton-growing dist.; p. 13,500.

Natchez, c. Adams co., Missaspph, U.S.A., on R. Kasthdwara, t. in Udapur dist., Rajputuna, India; tr. centre; p. 1,034. [and rubber factories; p. 9,624.

Mattick, t. in Middlesex co., U.S.A.; boots, shoes, Nattor, industri. t. on Narad R., Rajshahi dist., Bengal, India; p. 9,826.

Natural Bridge, Innectone arch (215 ft. high) crossg. sm. R. in Rockbridge co., Virginia, U.S.A., nr. Lexington.

Lexington.

Naucratis, anc. c. 10 m. W. of the Rosetta br. of R. Nile, nr. the mod. Egyptn. vil. of Nebreh, midway betwn. Cairo and Alexandria; excavated by Flinders Petrie and Gardiner; many remains of temples Nauen, z. nr. Potsdam, Pruss.; Brandenburg prov.;

Nauen, J. nr. Postann, Fruss; israndenourg prov.;
Naugatuck, industri. J. in New Haven co., Connecticut, U.S.A., on the N. R.; p. 11,480.
Nauheim, or Bad Nauheim, vad. J. Germy., on the
Tanus Mtn., Hesse-Darmstadt; warm salme
springs, overhung by the Johannesberg woods; fine
Kurhaus; res. p. 4,860 (20,000 visitors annually).
Naumburg, mftg. f on R. Saale, Prussn. Saxony;
cathedl., annual Hussite feast, Lear is the wat. pl.
of Kosen: p. 24,864.

of Kosen; p. 24,864.
Naupila, or Napoli di Romania, fort. *t.* in the Morea, Greece, on B. of Naupila; p. 4,863.
Naushahra, *t.* nr. Peshawur, Punjab, India; with

Naushahra, f. nr. Peshawur, Punjab, India; with cantonnit; p. 13,146.

Nava del Rey, f. nr. Valladolid, Spain; p. 6,240.

Navan, mkt. f. on R. Boyne, co. Meath, Ireld.; p. 3,854.

Navarino, or Neocastro, fort 19t. Greece, on W. cst.

Morea. Turkish-Egyptn. fleet destroyed in the harbour by alhed Eng., French, and Russnis. m 1827.

Navarre, prov. and old kingdom N. Spain, bounded by the Pyréndes; area 4,050 cg. m., p. 313,000.

Wine-growing, timber, marks, and agr. Cap. Pamplona.

plona.

Navasota, f. in E. Texas, U.S.A., on the N. R.; p.
Nawasota, f. in E. Lucknow, Oudh, India; p. 14,540;
administrative hdurs of the Barr Banki dist. Also t.

ammistrative nodes of the Bari Banki dist. Also t. in the Paganas, Bengal, India, tr. centre: p. 18,760. Nawanagar, nat. st. in Kathlawar, Gujarat div., Bombay, India; area 1,393 sd. m.; p. 365,000. Cap. N., silk and gold embroidery; p. 50,860. Naxoa, or Naxia, sist. and t. of Greece, largest of the Cyclades, area 164 sq. m., famous for wine, p. 15,000 (of t. 1,680). Naxoarth f. pr. Area Palastina now called an Martin.

(of t. 1,680). Mazareth, f. nr. Acre, Palestine, now called en-Násira, centre of missionary enterprise, p. 10,000 (6,280 Christians); also sml. industri. t. nr. Ghent, Belgium, p. 1962. [Lopez.

4.308.

Nazareth B., on Gaboon cst., W. Africa, N. of Cape
Naza, The, C. on Skager Rack, S. Norway: also
headland nr. Harwich, est. of Essex, Eng.
Neagh, Lough, L. in Ulster prov., Ireld., largest in
Brit. Isles (area 153 aq. m.), drains by R. Baun.
Neamtzw, t. in Roumania on R. N., nr. Piatra, ruined
fort, and famous monastry, p. 5, 200 (one-half Jews),
Neath, t. on R. N., Glamorgansh, Wales, nr. Swansea,
one of the Swansea bors., coppore, tin, and chemical one of the Swansea bors., copper, tin, and chemical

wks., p. 17,590. Nebraska, a central st. of the U.S.A., area, 76,855 sq.

m., mainly prairie, p. 1, 102,646; cap. Lincoln: ch. c. Omaha, on R. Missouri (q, v.); Nebraska City is also on R. Missouri, in the farming regn. of Otoe co., p.

7.504. I.Lake.

Neches, R. of Texas, U.S.A., flows (350 m.) to Sabine
Neckar, R. rising betwn the Swabian Alb, nr.
Schwenningen, and the Blk. Forest, Germy., and
flowing 240 m. through Wurtemberg and Baden to
the Rhine at Mannheim. [R. Rhine, p. 5,492.
Neckarau, vn. nr. Mannheim, Baden, Germy., on
Nedenhaes, an amt. of Norway, on Skager Rack, p.

70,421.
Nedgrigallov, industri. 1. nr. Kharkov, Russ., 7,893.
Nedjed, or Nejd, interior desert country of Arabia, mainly flat surface, inhabited by Wahabees.

Needham Market, t. on R. Gipping, Suffolk, Eng.,

Needham, mfg. t. nr. Boston, Mass., U.S.A., p. 6,148. Needles, group of rocks jutting out at W. extrem. Isle of Wight. Eng. Neemuch, or Nimach, t. in Gwalior st., Centl. India, on Rajputana border, Brit. military cantonint., p.

24,109.

Nee-e-gata, c. on W. cst. Hondo, Japan, open port,
Neenah, c. on Fox R., Winnebago co., Wisconsin,
U.S.A., timber yds., flour and paper mills, summer
rest. at foot of Winnebago Lake, p. 6,242.

Negapatam, c. at mth. of Vettar R., Tanjore dist,
Madras, India, joined with the numicipaly, of Nagure, 24,109. [p. 62,410.

ry. terminus, good shipping tr. in rice, etc., p. 58,545.
Negaunee, A. nr. Green Bay C., Marquette co., Michigan, U.S.A., in hæmatite iron dist., p. 7,149.
Negros, one of the Philippine Isls. S. of Mindanao;

length 120 m., width (mear) 25 m.; p. (about) 200,000

Nehavend, fertile Persian 2702., cap. N., with old hill citadel, fine gdiss., etc.; p. 5,00. Neliston, r. n. Glasgow, Reinfrewsh, Scotl., p. 2,680. Nelisee, R. of Germany (125 m.), trib. of R. Oder, some times called the Glatz Neisse. On its bank is the

Nelsse, R. of Germany (135 m.), trib. of R. Oder, sometimes called the Glatz Neisse. On its bank is the t. of Neisse; fine bldgs, and a sanatorium; p. 25,606. Neiva, or Nitza, R. of Russia, E. of the Urals, trib. (200 m.) of R. Tura.

Nellore, dxr. Madras Pres., India; area 8,765 sq. m.; cattle breeding, agr., and indigo growing; p. 1,500,000. Cap. N., t. on R. Penner, p. 20,86.

Nelson, mftg. L. nr. Burnley, Lancs, Eng., p. 39,485; cotton is the staple. Also chf. t. of silver-mining dist., West Kootenay, Brit. Columbia, p. 6,000. Also name of K. of Keewaitin, Canada, carrying the water of L. Winnipeg to Hudson B.; length (with its great trib. the Saskatchewan) 1,400 m. Also provin. dist. of S. Isi., New Zealand; area 10,465 sq. m.

Nelsonville, L. on Hocking R., Athens co., Ohio U.S. A.; colliery region; p. 5,84z.

Nemiours, Colliery region; p. 5,84z.

Nemiours, L. nr. Fontainebleau, Seine-et-Mame prov, France, p. 4,597. Fine old ch. and castle, glass factories; p. 5,002z.

Nen, R. (70 m.), flows to the Wash, Lincolnsh., Eng. Nenagh, unit. L. co. Tipperary, Irel., p. 5,218. [R. Neosho, R. Kansas, U.S.A., trib. (450 m.) of Arkansas Nepal, or Nepaul, indth. Angdom S. Himalayas, N. of Brit. India and S. of Tibet; area 54,000 sq. m.; exports rice, tobacco, timber, ghee, etc.; p. (about) 4,000,000; cap. Khatinandu. [p. 4,026.

4,000,000; cap. Khatmandu. [p. 4,628. Nephi, c. Utah, U.S.A., nr. Mt. Nebo and Silver City, Nephim, mtn. in co. Mayo, Irel., nr. Crossmolina, alt.

2.646 ft.

2,646 ft.

Nerac, 2, nr. Agen, dep. Lot-et-Garonne, France: formerly an impt. Huguenot centre; p. 7,862.

Nerbunda. (See Marbada.)

Nerbunda. (See Marbada.)

Nerchinsk, 4. on R. Nertcha, Transbaikalia, Asiatic Nerja, coast 4. nr. Malaga, Spain; industri.; p. 7,844.

Nervi, 549. nr. Genoa, Italy; sm. harbour, sheltered; lemons, figs, oranges, etc.; p. 3,140. [224 m. long. Ness, Loch, on Caledonian Canal, Inverness, Scott., Neston and Parkgate, 4. Cheshire, Eng., on the estuary of R. Dee, p. 4,480. [17.: p. 4,896. Nestved, 4. on Przestóe Isl., Zealand, Denmark; good Nesvizh, 4. nr. Minsk, Russ; industri.; p. 11,248.

Netherfands, or the Low Countries, designation formerly applied to Belgium and Holland, and now officially retained by the latter. *Kingdom of W. Europe; area 12,648 sq. m., p. (nearly) 5,920,000.

Polit, cap. The Hague; commcl. cap. Amsterdam. Country low-lying, intersected by dykes, fertile and productive; agr., butter and choese-making, mkt. gardening, distilling, and various manufs. Nethou, mfr. in Spain, Pyrenees, Maladetta group,

alt. 11,170 ft.

Netley, vil. Hants, Eng.: Royal Military Hospital and Army Medical Schl.: runed abbey. Netze, R. of Pruss., trib. (140 m.) of R. Warta, rises in Poland.

Poland.

Neubau, W. sub. of Vienna city, Austria, p. 78,689.

Neu Brandenburg, £ on Tollen See, MccklenburgStrelitz, Germy.; grand-ducal seat of Belvedere,
monuments to Bismarck and Fritz Reuter, p. 10,846.

Neuburg, £ on R. Danube, nr. Augsburg, Bavaria;
fine old abbey ch., impernal hunting box, p. 8,133.

Neufahrwasser, £ on inth. of R. Vistula, W. Pruss.,
nort of Dantzuc. D. 5,480.

Neufahrwasser, t. on inth. of R. Vistula, W. Fruss., port of Dantzuc, p. 5,480.
Neufchâteau, t. nr. R. Meuse, dep. Vosges, France, Neufchâteau, t. nr. R. Meuse, dep. Vosges, France, Neufchâtel, or Neuchâtel, one of the Swiss cantons, area 311 sq. m. (86 m. forest, 50 im. lake of Neuchâtel); agr., vineyds, asphialte nunes; also watchmag, industries; p. 172,000. Cap. Nr., t. on N.W. shore of lake; has watchmag, schl., p. 22,285 Great chocolate factory at Serrières, a suburb of N.
Neu Hannover, scl. of the Neu Punmern gr.m. Mela.

Neu Hannover, 126 of the Neu Punnern grp., Mela-Neuhaus, 1. nr. Tabor, Bothema; industl., p. 9,70. Neuhausen, 110 of Munich, Bavarra; residl., p. 10,420. Neully-sur-Seine, 110 of Parn, France, between the Seine and the fortifications; fine bridge and castle,

p. 38,694. Neu Lauenburg, 18/. in Bismarck Arch., area 571 sq. m.; formerly known as Duke of York's Isl., Germ.

possi.
Neu Mecklenburg, fr/. in Bismarck Arch., area 500
sq. m., Germ., formerly called New Ireland. [14,894,
Neumunster, f. nr. Hamburg, Pruss.; cloth, mftg., p.
Neunkirchen, or Neuenkirchen-am-Steinfeld, f. nr.
Wiener-Neustadt, Lower Austria; textile and metal industries, p. 11,233.

Neu-Pommern, largest isl, Bi-marck Arch., area 9,652 sq. m.; formerly known as New Britain.

Neuquen, terr. in the Argentine Repub., area 42,345

Neuquen, terr. in the Argentine repuu, area 42,345 sq. m.; agr. and stock-raise, p. 17,400. [7,142. Neurode, t. nr. Breslau, Silesia, Prussa; industr., p. 18,500. Neusalz, t. on R. Oder, Silesia, Pruss; enamelig. and papier-makelié works, p. 13,428 Neusandee, or Neu-Sandetz, industr. t. in W. Galicia, Arata et al. 18, 200. [7, 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 18, 200. p. 1

Austria; ry. wk. shops, petroleum dist, p. 16,800, nearly all Polish. Altsandec, adjoing, has a large annual fair, and cattle tr.

annual fair, and cattle tr.

Neusatz, £. on R. Danube, opp. Pickrwardein, S.
Huugary; a royal free city, taken by the Austrians in
1849, and nearly destroyed; literary and commcl.
centre, p. 26,220.
Neuse, R. N. Carolina, U S A flors (300 m.) to
Neustadt, £. nr. Vienna, Lower Austria; manuf.; p.
26,489; also t. subn. to Mav.6.burg, Prussn. Saxony,
p. 29,422; Neustadt (or Prudnik), t. nr. Oppela,
Pruss., battles, 1746, 1760, and 1779, p. 1842; Neustadt-an-der-Hardt, t. nr. Landau, Rhenish Bayaria,
furnituse, sewing. me, factories erc. furniture, sewing-mchne. factories, etc., p. 14.780; Neustadt an dei Orla, t. nr. Weimar, Germy., p. 6,147; Neustadt Eberswalde, t. nr. Berlin, Germy.,

6.14; Neustadt Eberswalde, t. nr. Berlin, Germy, p. 14,786.
Neustettin, t. nr. Coslin, Pomerania, Pruss.; manuf.; Neu Streiltz, cap, Mecklenbug-Strehtz, Germy, nr. Altstrelltz, the old cap.; p. 11,84; has grand-ducal residence. [nichy. manuf.; p. 12,024.
Neutitaschein, t. in Moravia, Austria; agr. mp. and Neutra, R. Hungary, trib. [100 m.] of R. Wang; also t. on R. Neutra, same name, cap. co. Nr. p. 14,140, cathedl.
Neu Ulm, t. on R. Danube, Bavaria, opp. Ulm; Neuwied, t. in Rhine prov., Pruss., nr. Collenz; cap. of the mediatisod countships of Wied; noted for its schools and establishmts. of the Moravian Brethren; p. 11,840. p. 11,840.

p. 11,840. Neva, K. Russ., govt. St. Petersburg (40 m.). flows past the cap. from L. Ladoga to G. of Finland. Nevada, Pacific et. of U.S.A., betwn. Utah and Oregon and Idaho, and bounded S. and W. by Cali-

fornia, area 110,700 sq. m.; arid, but rich in minerals, partic. gold and silver, though the productn. of both is greatly diminish; p. 82,000 (declining); cap. Carson c. Also N., c. of Missouri, U.S.A.; cap. Vernon co.; zinc mining and smelting; p. 7,500. Nevel, 2. in Russin. Foland, nr. Vitebsk; manuf.; p.

8,944.

Nevers, c. on R. Loire, cap. Nièvre dep., France; the Roman Noviodinium; porcelain and falence industry; cathdl; p. 25,623. [govt. Perm. Russ., p. 17,480. Nevianakil-Zavod, f. in iron and gold regn. Ural Mits., Nevill's Cross. nr. Durham, Eug.; here the English defeated and Scots in 1346.

defeated the Scots in 1346.

Nevin, t. and fishing pt. on Carnarvon B., N. Wales, nr. I-whieli; one of the Carnarvon bors.; p. 2,089.

Nevis, loch, arm of sea off cst. of Inverness-sh., Scot., 14 m. long; also Brit. isl., Loeward grp., W. Indies, area 50 sq. m., sugar export, p. 15,500, cap. St. Christopher.

area 50 Sq. m., Sugar export, p. 15,500, cap. St. Christopher.

New Albany, c. on Ohio R., Floyd co., Indiana, U.S.A., opp. Louisville, Kentucky; glass, iron, and steel mant; p. 20,750.

New Amstel, infig. c. nr. Amsterdam, t. in Brit. Guana, on Berbice R. Newark, inkt. c. on R. Trent, Notts, Eng.; brewg., iron wks., etc., p. 16,412; also c. Essex co., New Jersey, U.S.A., many flourishg, manut., p. 347,469; also c. on Lucking R. L. c. Ohio, U.S.A.; ry. carr. wks. and varied manuf.; p. 25,404.

New Bedford, c. and pt. on est. of Acushnet, Buzzard's B., Mass., U.S.A., nr. Boston, formly, whale fishy.centre, p. 96,652.

B., Mass., U.S.A., IT. BOSION, BORDY, CENTER, D. 96,652.

New Berne, 1st. of entry on R. Neuse, N. Carolina, U.S.A.; tr. in tumber, tobacco, cotton, etc., p. 9,560.

Newberry, 1st. N. Co., S. Carolina, U.S.A., p. 4,124.

Newbiggen-bythe-Sea, cst. wat. 1st. nr. Morpeth, Northumberland, Eig., p. 3,460.

Newbold and Duniston, mmg. t. nr. Chesterfield, Eig., p. 4,626.

Derbys, Eig., p. 6,344.

Derbys, Eig., p. 6,344.

Newbottle, A. ading. Houghton-le-Spring, Durham, Newbridge, A. on R. Loddon, co. Gladstone, Victoria, p. (dist.) 2,982; also t. on R. Liffey, co. Kildare, Ired.; p. 3,340.

New Brighton, t. and wat. pt. nr. Birkenhead, Ches., Eng., p. 5,848; also a bor. of New York c., U.S.A., on Staten 1s1; warehouses and tactories; p. 24,08; also bor, on Beaver R., Beaver co., Penn., U.S.A.

in colly, dist.; p. 7.346.

New Britain, c. Hartford co., Connecticut, U.S.A.; iron and brass manuf.; p. 43.916. [See also New Pommern.)

Pommern.)

New Brunswick, prov. Dominion of Canada; area 27,911 sq. m., largely forest-clad, extremes of cold and heat, traversed by mountus, with many lakes, fishig, hunting, agr., manuf; p. 35,815; cap. Fredericton (2,2.), Also c. New Jersey, U.S.A. on Rantan R.; moia-rubber and leather factories; p. 23, 388.

Newburg, c. on R. Hudson, Orange co., New York, U.S.A.; cloting and inchy, manut.; p. 27,805. Newburgh, c. on R. Tay, Pifesh., Scotl., nr. Perth, p. 1,077. ([par.], 4,378.

Newburgh, vol. on R. Tay, Ariesta, Octa, in Fetch, 2,378.

[Ingr.] Newburn, vol. on R. Tyne, nr. Newcastle, Eng., p. Newbury, mkt. t. on R. Kennet, Herks, Eng.; unpt. wool mkt.: p. 10,759; also vil. on Connecticut R., Orange co, Vermont, U.S.A., p. 3,122.

Newburyport, c. and fort on R. Merrimac, Essex co., Mass., U.S.A.; boot and shoe factories, commerce and fisheries; p. 14,500.

New Caledonia, Freuch ist. of Australasia, S. Pacific Co., p. 200.

New Caledonia, Freuch ist. of Australasia, S. Pacific Co., p. 200.

Oc.; area, 8,100 sq. ni., cap. Noumea; p. (of isl.) 55,000 (includg, natives, officials, military, convict guards, and prisoners); chf. French penal settlement.

New Canaan, t. in Fairfield co., Connecticut, U.S.A.,

p. 3.249.
New Castile, former prov. Spain, now divided over Madrid, Ciudad Real, Cuenca, Guadalajara, and

Newcastle, f. nr. mth. of Great Fish R., C. Col., Brk. S. Africa; also t. N. of Drackenberg dist., Natal; also t. on R. Avon, nr. Perth, W. Australia; also port in Durham co., Ontario, Can., nr. Toronto; also c. in Lawrence co., Penn., U.S.A., on Shenango R.,

cally, dist., p. 4a, 100; also c. at mth. of R. Hunter, N.S.W., coal regn., p. (with subs.) 55,000; also mkt. t. in co. Limerick, ireld., p. 2,50.

Newcastle, or Miramichl, 24t. New Brunswick, cap. of N. co., on M. R., gd. tr., p. 5,594.

Newcastle Emlya, t. on R. Teif. Cardigansh. Wales, Newcastle Emlya, t. on R. Teif. Cardigansh. Wales, Newcastle-under-Lyme, Staffordsh., Eing., on Lyme Brook; is breweres, paper inkg., etc.; p. 20,04.

Newcastle-upon-Tyne, c. and .94t. Northumberid., Eng., connected by bridges with bor. of Gateshead, Durham; great shipbuildg. and colliery port; cathedral, many fine pub. bidges, flourishing chemical and many other manufacs.; p. 266,071. [Water, p. 1,704, draw, 
Russia and France.

Russia and France.

Newchurch-in-Rossendale, mftg. t. in Lancash, Eng., nr. Bacup, p. 6.842. [burgh, Scotl., p. 2,142. New Craighall, mining vvt. nr. Musselburgh, Edin-New Cumberland, t. W. Vurgina, U.S.A., on the R. Ohio, nr. Fittsburg, p. 4.833. [p. 1.4.83. New Cumnock, vid. on R. Nith, Ayrsh. Scotl., New Decatur, t. Alabama, U.S.A., t. S. of Decatur, on R. Tennessee, p. 5.480. [Nith, ayrsh. Scotl., New Dongola, or Maruka, tr. t. in Nubia, on R. New England, pastl. dist. in N.E. of N.S.W., traversed by New Eng. min. range, area 13,200 aq. m.; the New Eng. States of the U.S.A. are Maine, New Hampshire, Verniont, Mass., Connecticut, and Rhode Isl, forming collectively part of the North Virginia grant of James I. to the Plymouth Company in 1606.

Company in 1606.

Newent, mkt. 4. in Gloucestersh., Eng., p. 2,194.

New Forest, woodland regn. (area 91,000 acres) in S.W. Hants, Eng. Lyndhurst is the forest cap., and Brockenhurst and Beaulieu (with runed abbey) are villages within the denesue. William Rufus and another son of the Conqueror, Richard, both met with violent deaths in the forest appropriated by their father.

their father.

Newfoundland, Brit. is/. col. N. America, E. of the Brit. col., p. (including that part of Labrador over which Newfoundland has jurnsliction) 22,679; cod and lobster fishery and sealing are the chief industries, and poster searcy and scanng are the time industries, but agr, and mung are being extensively developed; the climate is severe; cap. St. John's (g.v.).

New Glasgow, spt. Nova Scotia, nr. Picton, p. 3,124.

New Granada, former name of the United S. of Colombia, S. America (g.v.).

New Guinan, or Panua largest (gl. in world (except Many Guinan, or Panua largest (gl. in world (except the grant t

New Granada, former name of the United S. of Colombia, S. America (q.w.).

New Guinea, or Papua, largest ist. in world (except Australia,) lies N. of Australia and S. of the Equator, area 24,768 sq. m. Fortion W. of 141° is a Dutch possit, the S.E. expanse foring. Bitt. New Guinea and the N.E. Kaiser Whitelin's Land, or German N. Guinea; the inhalitants are ramily the abordinal Papuans and immigrants or descendits. of immigrants of Melanesian race, probably abt. 600,000 in all, with only some 700 or 800 whites in all, incide, nievionaries, traders, and officials. The resources of the isl. are as yet undeveloped, though there is doubtless much mineral wealth waiff exploitatin, and considerable cultural possibilities. [11, (dist 3, 120. New ham, t. in co.'s Bourke and Dalhousie, Victoria, New Hampahire, a st. of the New Eng. grp., U.S.A., touching the Canadian border, area 9,205 sq m.; agr. and fruit-growing extensively pursued, but the bulk of the inhabits, are concerned in various mannf, and commerce; p. 43,000, cap. Concord, ch. spt. Portsmouth, princ. mfg. centre Manchester (g. v.).

New Hawfard, t. Connecticut, U.S.A., on the Farmington R., Hartford co., p. 5040.

New Haven, tarbor, inlet of Long Isl. Sound, seat of Yale Universy., and of many fourishg. manuls., p. Newshawen, spt. at mth. of R. Ouse, Sussex, Eng., the

Pale Universy, and or many nonsens.

Newhaven, 24. at mth. of R. Ouse, Sussex, Eng., the passenger pt. for Dieppe, p. 6,665; also fishing t. on F. of Forth, Edinburgh, Scotl, p. 4,754.

New Hebrides, French isi, 275, in S. Pacific, N. of New Caledonia, total area 5,135 sq. m.

New Holland, ferry and ry, stn. on R. Humbes, Lincolnsh., Eng., opp. Hull.

New Iberla, t. in Ibera co., Louisiana, U.S.A.; sugas, cotton and rice grows, timber tr., p. 9, 120.

Newington, ber. of London, Eng., S. of Southwark: industr. and residentl., p. 176,819.

New Ireland.—(See Neu Mecklenburg.)

New Jersey, Atlantic t. U.S.A., adjoing. New York, area 8,224, 5q. m.; manuf. and agr., p. over 2,600,000, cap. Trenton, ch. cities Newark and Jersey City (g. v.).

New Lambton, colly, dist. N.S.W., sub. to New-castle, co. Northumberland, p. 2,140.

New Lebanon, t. New York, U.S.A., nr. Albany, in Columbia co.; contains Lebanon Springs, p. 3,864.

in Common co., Canada 3,864.
New Lisbon, vsl. on R. St. Lawrence, Levis co., Quebec, Can., p. 2,935.
New London, c. on R. Thames, Connecticut, U.S.A.;

fine harbr., variety boat races on r., silk and woollen factories, p. 20,814.

Newlyn, picturesque cst. vil., Mounts Bay, Cornwall,

Eng., p. 3,156. Newmains, t. nr. Wishaw, Lanarksh., Scotl., p. 2,843. New Malden, mkt. t. nr. Kingston, Surrey, Eng., p.

3.850. Newmarket, t. and racing centre, Cambridgesh., Eng., famous heath, p. 19,865; also t. in York co., Ontario, Can., p. 2.860.

Ontario, Can., p. 2,860.

New Mexico, terr. of U.S.A., N. of the Mexican Repub., and S of Colorado st., area 122,580 sq un, traversed by the Rocky Mins, p. 297,301, chiefly of Mexican descent; mineral, horticulti, and agrandustries flourish, and stock-raising also; cap.

industries nourish, and stock-rising also; cap. Santa Fé. New Mills, industri & Derbysh , Eng., p. 8,990. Newmilns, mitg. (musin and lace curtains) & n. Kilmarnock, Ayrsh., Scott., p. 4,806. [p. 1,570. Newnham & on R. Severii, Gloucestersh., Eng. New Norfolk, & Tasmania, nr. Hobart, fruit-growing the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont

New Notiols, 7, 4 assistance, 11, 12, 13, 14, 15, 147.

New Orleans, c. and pt. on R. Mississippi, cap. of Louisana, U.S.A., the great cotton mart of America and a busy commit and infty, centre, p. 340,554.

New Philadelphia, c. on Tuscarawas K., Ohlo, U.S.A., http://rv.and.canal.centre.p. 7,048.

New Plymouth, 596, on W. est. N. isl., New Zealand, cap. Taranak dist., D. 4,872.

cap Taranaki dist., p. 4,872
Newport. c. Campbell co., Kentucky, U.S.A., on Ohio R., a residi. sub. of Cincinnati, with impt. local industr., p. 30,300; also c. Rhode Isl., U.S.A., on Narraganestt R., Kashionable seaside rest., perm. p 27,420.

Newport, Isle of Wight, bor. and cap. of isl. on Meilina R. (includ. in co. Hants.), Eng., p. 11,155. Newport, Mon. 2. on R. Usk. co. M., Eng., slupbldg.

and manuf. also consid. shipping tr., p. 83,700.

Newport News, c. and 5% on Chesapeake B., Virginia,
U.S.A.; shipldg., various manuf., large tr., p. 28,400.

Newport-on-Tay, burgh co. File, Scotl., opp. Dundee,

p. 5,643. Newport (Salop), mkt. ! Bucks, Eng., p. 4.230.
Newport (Salop), mkt. ! Shropshire; Eng., 11 m. S.W.
Sta ford, p. 3.250. [17 m. long, c.p. Nessau (* v.)
New Providence, 12!, of the Bahama gro, W. Indies,
Newquay, wat. ! ! on cst. of Cornwall, Eng., 14 N. of

Trum, p. 4415.

New Quay, cst. nr. Aberaeron, Cardigansh, Wales, New Richmond, t. m Ohio, U.S.A., on O. R., 20 m. from Cincinnati, p. 3,163.

Islington, London, Eng. New Rochelle, c. Westchester co., New York, U.S.A., on Long isl. Sound, residiti, p. 3,859.

New Romey, t. m. Hythe, Kent, Eng.; one of the Chique Ports, p. 1,321.

New Romney, t. nr. Hythe, Kent, Eng.; one of the Cinque Ports, p. 1,33.

New Ross, mkt. t. on R. Barrow, co. Wexford, Ireld., Newry, t. at hd. of Carlingford Lough, co. Down, Ireld., p. 11,956.

New Siberia, arch. off the Arctic cst. of Siberia; area 10,000 sq. m., climate very severe.

New South Wales, oldest st. of Australian Commonwealth, betwn. the Pacific cst. and S. Australia, having Queensland on the N. and Victoria on the S.; arch. 21,008 sq. m. p. 1,688 22; fertile cst. dists. area, 311,098 sq. m., p. 1,648,212; fertile cst. dists.,

pastoral and agr., much minl, wealth in the table lands and mountnous. expanses, cap. Sydney (q.v.). Newstaad, c. m Victoria, 80 m. N.W. of Melbourne; Newstead Priory, Notts, Eng., nr. Mansfeld, once the home of Lord Byron, the poet.
Newstratisville, vd. Perry co., Ohio, U.S.A., p. 3,454, Newton, mfg c. on Charles R., Middlesex co., Mass. U.S.A., p. 3,452, also c. in jasper co., Iowad, U.S.A., p. 4,502; also c. in jasper co., Iowad, U.S.A., p. 4,502; also t. in New Jersey U.S.A. can Kansas, U.S.A., p. 7,428; also c. in Jasper co., Toway U.S.A., cap. Sussex co., p. 4,592; also t. in New Jersey, U.S.A., cap. Sussex co., p. 4,192. [p. (dist.) 13,712. Newton Abbot, mkt. t. on R. Teign, Devon, Eng., Newton Heath, industri. dist. N.E. Manchester, Lancash., Eng., p. 41,177. Newton-in-Makerfield, or Newton-io-Willows, mftg. t. 5 m. E. of Liverpool, Lancs., Fing., p. 18,452. Newtonmore, par. Inverness-th., Scotl., on R. Spey, Newton-Stewart, burgh on R. Cree, Wigtownsh., Scotl., p. 2,061.

wewtun-Stewart, ourge on R. Cree, Wigtownsh', Scotl., P. 2,051.
Newtown-upon-Ayr, £ subn. to Ayr, Scotl., p. 6,814.
Newtown, mkt. £ on R. Severn, Montgomerysh., Wales, p. 5,039; also S.W. sub. Sydney, N.S.W., p. 88,00; also S.W. sub. Sydney, N.S.W., p. 86,00; also S.W. sub. Sydney, N.S.W., p. 86,00; also S.W. sub. Sydney, N.S.W., p. 10,00.
Newtown Stewart, mkt. £ on R. Mourne, co. Tyrone, New Ulm, c. in Brown co., Minnesota, U.S.A., i founded 184, destroyed by Indian. 1852, since rebuilt, p. 6,228.
New Westminster, Ł on Fraser R., Brit, Columbia; former cap. of col., p. 14,000.
New Whatcomb, £ on Hellingham B., Puget Sound, Washington, U.S.A.; saw.mulls, timber tr., p. 8,211.
New York, one of original States, U.S.A., touching Canada on the N., and reaching the Atlantic on the S., with Naigara and L. Erie on the W., and Connecticut, Mass., and Verminn on the E.; include, Long isl and with Nagara and L. Erre on the W., and Connecticut, Mass., and Vermont on the E.; includg. Long Isl and Ctaten Isl., the "Empire State," as it is sometimes styled. New York has a total land area of 47,620 sq. in., and a p. exceeding 9,500,000, being at once the most populous and industrially import, of the States; its soil is fertile and varied in character, and there are many L.'s and R.'s, while the Adirondack and Castrill most found in the content of the states; in the content of the states in the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the Catskill mens furnish extensive upland regions; Albany is the State cap. (q v.).

New York C., largest c. in N.Y. State and the Western

Hemisphere, comme rcl. metrop. of the U.S.A.; originally founds. b. Dutch Settlers at New Amster dam at the S. extremity of Manhattan Isl. (q.v.), it dain at the S. extremity of Manhattan Isl. (q.w.), it has grown to embrace a total offici area of 305 sq. m., with a p., at the census of 1910, of nearly 4,800,000; connected by bridge over the East R. with Brooklyn; that city was included in the consolidatin, of 1896 of New York, while the gr. communities in New Jersey State of Jersey City, Hollouken, Nowark, &c., pactically belong to the gigantic commercial agyregatin, of the American business cap., 50 that over 1,000,000 more persons than those comprised in the New York census retn. referred to lived just across the Hudon. R and within nor m of the City Hull, the lides, and R and within so m. of the City Hall; the bidgs, and pub, instns of New York are on a fitting scale with its colossal importance.

tts colossal importance.

New Zealand, Brit. Colonial & grp. in the S. Pacific E. of S.-E. Australia and Tasmans, just over 1,200 m. from Sydney, N.S.W.; it consists of the two main isla. N. and S. (collective area 102,903 sq. m.), Stewart ial (622,40 m.), the Aucklands, and some sm. islets to the S. with the Kermadecs on the N., giving in all an area of 104,471 sq. m.; the isls are mountainous (with active volcanoes), and contain numerous L.'s, (with active volcanoes), and contain numerous L.'s, thermal springs, and geysers; the scenery being as diverse as beautiful, and the climategenerally healthy, p. 2,021,066 (exclusive of 46, 500 Maories); 'cap, Wellington, than wh. t. Auckland, Christchurch and Dunedin, fall of wh. see have larger p; chf. exports, wool, grain, four, meat (refrigerated and preceived), leather, &c. Nezin, Nexhin, or Nelin, industri. 4. on R, Oster, in the Russ, govt. of Tchernigov; formerly of consid. commcl. innortice. p. 4.6840.

commcl. imported, p. 46,840.
Ngami, reedy swamp in Brit. S. Centl. Africa, formerly

a L., 50 m. long, 3,00 ft. above sea; discord, (1849) by Dr. Livingstone. Wgan-Heek, inland \$^{pp}\$. China, along the lower Yang-its-Kiang R.; area 54,000 50, m., p. 20,000,000; cap. Ngan-King, in green tta growing dist.

Nha-Trang, set on est, of Cochin China, sometimes called Kanh-hoa; fine harbour, p. 6, 146.
Nhill, £ Victoria, Lowan co., in faring, dist., p. 3,404.
Niagara, Æ forming part of bady, betwn. Can. and U S.A.; flows gs in from L. Erie to L. Ontario; has rapids and the famous falls [167]. Niagara; falls is the name of a town on the Ontario bank of N. R.

the name of a town on the Ontario bank of N. R. opp. the cataract; two wonderful hridges, p. 4,475; also of c. on American side of the R., extendg, along the summit of cliff for 3 miles, p. 30,445; Niamtso, f. in Moldavia, Roumania, p. (industr.) 8,230. Nias, ist. (Dutch) W. of Sumatra, 95 m. long. Nicaragua, Centl. American repub. S. of Honduras, reaching from Pacific to Caribbean S. on the Atlantic; area 49,000 sq. m., p. 600,000; produce; coffee, bananas, indus-rubber, sugar, timber; cattle-rearing is pursued extensively, and there is some mineral wealth. Managua as the cap. [Leon (the largest c) the old cap.] L. Nicaragua (in the S. part of the repub.) is on m. long by 42 m. wide at the broadespoint and drains by the San Juan R. to the Caribbean S. The great scheme of utilising the waterway of the L. and R. in the formatn. of a canal uniting the wo oceans first received constructive attention v. two oceans first received constructive attention it.

1889. [Apennines, p. 15, 110. Nicastro, mftg. t. in Catanzaro prov., Italy, W. of the Nice, spt. c. and Riviera, health rest. on the Mediterranean, France at the foot of the Alps. beautiful climate and surroundings, joins the ancient t. of Cimiez. Ceded to France in 1860 by Sardinia

fruit and flower exports, perfume manuf., p. 141,604.
Nicobar Isls., Brit grp. in Bay of Bengal, betwn. the
Andamans and Sumatra; itotal area 635 sq m

P. 6,800.
Nlcopoli, fort, A. on R. Danube, Bulgaria; Turkish fieet destroyed here 1829, t. captured by Russas. 1877, p. 5,468.

Nicosia, r. Sicily, prov. Catania; mftg., p. 16, 110; also name of cap. of Cyprus (tormerly called Lefkosia, and more anciently Ledra); fortified, mosques, hand weave, in silk and cotton; p. 15,000 (about two-fifths

Moslems). [p. 7,827. Nicotera, spt. nr. Reggi, Calabria, Italy; gd. tr., Nicoya, t, on penin., of N., N. Bay, Costa Rica, Pacific

Norman of the C. Empire.

Neider Wesel, or Netzel, fort. £ below Dusseldorf, or R. Rhine, Pruss. p. 22,465.

Niemen, or Memel, R. of E. Pruss. and Russ., 1 in R. govt. of Minsk and flowg. 500 m. to the Kurisches Half, 50 m. N. E. Konigsberg.

Niemes, £ n. E. Buntzlau, Bobemia. on R. Polzer. cloth, linen, bentwood furniture, and vinegar manuf. p. 5,240.

Niemburg. £ on R. Weser, nr. Hanover, Pruss; Niemburg. £ on R. Weser, nr. Hanover, Pruss; Niemburg. £ on R. Weser, nr. Hanover, Pruss; Niemburg. £ on R. Weser, nr. Hanover, Pruss; Niemburg. £ on R. Rotterdam, Holland, p. 4 120.

Niemwoort, fort. £ nr. Ostend, Beigum, p. 3829.

Niemwoort, fort. £ nr. Ostend, Beigum, p. 3829.

Niemwoort, fort. £ nr. Ostend, Beigum, p. 3829.

Niemwoort, fort. £ nr. Rotterdam, Holland, p. 4 120.

Niemwoort, fort. £ nr. Fance; traversed by Morvan Mtns.; area 2,659 sq. m., agr., grape growing.

minerals; p. (decrease), 319,500; cap. Nevers(v v).

Nigdeh, £ n. Asia Mmor, Koma, vilayet; many benutiful bldgs.; p. 20,000.

Niggien, f. in asia minor, comments beautiful bidgs; p. 20,000.
Niger, gt. R. West Africa; rises nr. the sea in the outer min. zone of W. Af. as the R. Tembi and sweeps round by Timbuktu to a delta in the G. of Guinea on a circuitous course of 2,600 m., receive its gt. trib., the R. Benne, abt. 250 m. from its mouth.

its mouth.

Nigeria, Brit. Protectorate in W. Africa occupying
the lower basin of R. Niger, with the regn. adjng. up
to Lake Chad; divided administratively into N.
and S. Nigeria; total area over 300,000 sq. m., p.
(est.) \$5,000,000; chiefly Hausas, industrious and
gd. traders. Cap. Wurmu; former cap. Solveto;
ch. t., Kano, the gt. emporium for the Central
Soudan, with a daily mkt. attendance of 30,000.

Nügata.—(See Nee-e-gata).

Mar, f. in Almeria prov., Spain, in fertile fruit, nuts, and grain growg. dist.; manuf, fine porcelaint, p. 13,165.

Mikerk, f. nr. Arnhem, Gelderland, Holland; Min-Novgorod, prov. of Middle Russia, intersected by R.'s Volga and Oka; area 19,797 sq. m. Soil onliefly black earth; agr., shipping, minerals, manufac., p. abt. 2 mills. Cap. N.-N., f at confi. of R.'s V. and O., gt. commerci. centre p. Do.000 (more than double at the famous annual fair). Merchandise to the value of 25,000,000 sterling has been sold at one fair; but the railways are causing its decline.

Distributed in the Ural range, govt. Perm, Russ.; thriving indust.; p. 51,000. Russ.; thriving indust.; P. Frimorsk govt., Asiatic Nikolaevak, A. on R. Amur, Primorsk govt., Asiatic

Russ.; p. 6,330.
Nikolaiev, fort. t. nr. Kherson, at hd. of est. R. Bugg,
Russ.; chf port of the Russian Black Sea fleet.;

Russ.; chf port of the Russian Hlack Sea nect.; admiralty yards and mehy, works; p. 110,246.
Nikolsburg, or Nikulow, t. at foot of Polau mrn., S. Moravia; grape growg, and cloth manuf.; p. 8,000.
Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, Yekaterinoslav Nikopol, industri. t. on R. Dneiper, indus

p. 12,400.

Nie, the longest R. in Africa (see Bahr-el-Abiad—
White Nile—and Bahr-el-Azrek—Blue Nile) flows through a longer stretch of basin (over 2.450 m. in a direct line) than any other R. in the world, and along all its windings measures over 4,000 m., falling short only of the extent claimed for the Mississippi. (See also under Atbara.)

(See also under Athara.)

Mies, c. and rv. centre Trumble co., Ohio. U.S.A., on
the Mahoning R.; p. 9,084; also c. Bernen co.,
Michigan, U.S.A., on St. Joseph R.; industri p. 6,20,
Nigrir, sm.l. nat. st. Orissa, India, nr. cst. of B. of
Bengal; p. 50 500.

Nigrir Hills, Neelgherries, or Blue Mountams;
range in Madras, S. India (alt. 6,500 ft.) giving name
to sm. dist. of the Presidency; area 957 sq. m.,
p. 118,400. Coffee, tea, and cinchona grown; cap.
Ifeskanund. p. 118,400. (Utakainund.

Utakanuna.

Nimach, f. Gwalior, Centl. India. (See Neemuch.)

Nimach, ditt. Narbuda div., Centl. Prov., Brit. India.

area 3,357 sq. m. p. 345,268; admin. hdqrs., Khandwa,
with cotton factories.

Nimburg, t. on R. Filbe, Bohemia, nr. Prague, industri.
Nimeguen, fortid t. on R. Waal, nr. Arnhem, Holland,
mfg, ale. Pruss. blue, pottery, cigars; woods and
beautiful scenery. p. 4,500

beautiful scenery, p. 44,000
Nimes, or Nismes, t. in Gard dep., France, Roman antiquities, educatl. instrs., silk manuf., wine trade,

antiquiries, eoucatt. Instits., Silk manut., wine trade, p. 80, 140.
Nimeveh, celebrated c. of Assyria, stood on the E. bank of the upper R. Tigris opp. the mod. Mosul.
Ning Po, treaty pt in Chekiang prov., China, 100 m. from Shanghai, prin. expts., cotton and tea, p. 255,000.
Ninove, t. on R. Dender, nr. Gheut, Belgium, industri.

Nihota, A. Riber, in: Offen, Beginn, industry, p. 7,126.

Nio, Greek isi. nr. Naxos, in the Cyclades, area 20 Niobrara, R. trib. of R. Missouri, flows 450 m. from Wyoming to Nobraska, U.S.A.

Niort, t. dep. Deux. Levres, France, noted for its onions and glove manuf., p. 21,146.

Nipand, t. in Belgium dist., Bombay Press, India, p. Niphon, or Nipon, native name of Japan, applied of the fact were properly to though the princ its of the

Nizhoza, or Nipon, native name of Japan, applied often Out wrongly) to Hondo, the princ. isl of the Mikado's Empire.

Nipigon, L. in Thunder Bay dist., Ontario, Can. (70 m. long, 5 m. wide, 1,000 isls.), discharges '0y N. R. (30 m. long) to Lake Superior.

Nipissing, L., Ontario, Can., midway betwn. Ottawa R. and L. Huron, 50 m. long, 35 m. wide, vol. Niposa, L. in Pruss., sub. to Cologne, p. 5,846.

Niscensis, A m. Caltanivetta, Sicily, industri., p. 23,463.

Niscensis, A m. Khorassan, Persia, grows grain and cotton, and contains famous turquoise mines, p. 24,000; cap. N. c. with gd. fruit tr., p. 15,000; mosque, with tomb of Omar Khayyam.

Nisser-Vand, L., Norway (30 m. long) drained to Skager Rack.

Nith, R. of S.W. Scotl. (yr m.), flows to Solway F., S. of Dumfries; Nithsdale is a beautiful valley along R. bank.
Niue-Fekal, or Savage Ial., coral reg/ (14 m. long, 10 m. wide) in S. Pacific, under Brit. protectin., grows cocos-nuits, yams, and bananas, p. 4,850.
Niutchwang, Z. Manchuria. (See Newchang.)
Nivalles, Z. in Brabant prov., Belgium, rlwy. workshops, veg. pchmt. manuf., p. 12,120.
Nivernais, old prov. of France, now forming Nievre prov. and part of Cher.
Nizdorf, industri. L. nr. Leitmeritz, Bohemia, p. 7,123.
Nizampatam, L. and spl. Kistna dist., Madras, India Nizam's Dominions. [See Haidarabad.) [p. 4,860.
Nizhni Novgorod. (See Nijni-Novgorod.) [p. 4,860.
Nizhni Nowgorod. (See Nijni-Novgorod.) [p. 1,150.000]
Nizakali, dist. Cibhttagoug div., Bengai, india: area

Noakhall, disf. Chhittagong div., Bengal, India; area 1,645 Sq. m., grows nce and area-nuis; p. 1,150,000; cap. N. (or Sudharam), t., p. 5,500. Noale, t. nr. Padua, Italy: industri; p. 5,170. Noblesville, t. Hamilton co., Indiana, U.S.A., p. 5,180. Nocera Inferiore, t. nr. Naples, prov. Salerno, Italy, the anc., Nucera Alfaterna, p. 16,880; Nocera Unubra, cathodral Bondies are: cathedral c. Perugia prov., Italy, anc. Nuceria

cathedral c. Ferugia prov., Italy, anc. Nuceria Camellaria, p. 7,149
Noci, industri. t. prov. Bari, Italy, p. 11,436.
Nogent-le-Rotrou, t. on R. Huisne, Eure-et-Loire dep., France; castle; p. 8,994. Nogent-sur-Marne, vil. suburban to Paris, 3 m. E of the fortifications, p. 20,140. Nogent-sur-Scine, t. nr. Troyes, dep. Aube,

10,140. Nogent-sur-scine, t. nr. 1royes, cep. Auoe, France, p. 4,228. Noia, or Noja, industri. A. in prov. Bari, Italy; p. 8,237. Noia, 4, nr. Nayles, prov. Caserta, Italy; was an anc. c. of Campania, noted for its vases, taken by the Romans 133 B.C.; p. 14,495. No Man's Land, former name of Griqualand E. (q. w.); also sm. isl. 3 in S. W. of Martha's Vineyard, Mass, U.S.A.

Nombre-de-Dios, t. nr. Durango, Mexico, U.S.A.;

good tr.; p. 6.424.
Norcia, f. prov. Perugia, Umbria, Italy; old walls, cathedral; famous for pork and terra cotta: p 5,808.
Nord, N. dep. France, on Belgian fronter and N. Sea, "Increasing Loop Seb; agr. area 2,229 sq m., p. (increasing) 1,901,560; agr. flourishg., mining, and textile manufs., cap. Lille (q.v.). Nord Cap, or North Cape, most N. point Europe, on

Nord Cap, or North Cape, most N. point Europe, on isl. Marcot, Norway, Norden, W. sub. (inifg.) Rochdale, Lancs, Eng.; p. 6.298; also t. Hanover, Pruss, nr. Einden and the N. Sea; gin distilling, yeast factory; p. 7,500. The poor of Norden is Norderich, 4 m N.W. Norderney, one of the Frisian Isls., Hanover, pop. German scasule resort, p. 4.480; 25,000 summer visitors annually. [manuf., carhedral; p. 28,496. Nordhausen, t. in Hartz Min., Saxony; chemical Nordheum, t. nr. Göttingen. Hanover; industri.; p. 7,124. [Norway, opp. North Cape Nordkyn, most N. point of the European manland, Nordland, or Norrland, territorial dist. of Norway, comprising the Loffoden Isls. (q. vs.).

Nordland, or Norrland, territorial dist, of Norway, comprising the Loffoden Isls. (e.w.).
Nordlingen, t. nr. Nuremberg, Bavaria, on R. Eger; former impenal c.; carpet factories; p. 8,439.
Nore, The, anchorage Thames estuary, Eng.; also R. Irel., trib. (70 m.) of R. Barrow.
Norfolk, ext. co. F. England; mostly flat and marshy, with shallow lake expanses known as the Broads; area 2,119 sq. m., p. 499.049. Industries chily. agr.; with extensive fisheries from Yarmouth. Cap.

Norwich (q.v.).
Norfolk, c. on N. Hrbr., N. co., Virginia, U.S.A.;
shppe, genl. manuf., coffee-roaste; i.p. 67,452; also
c. on Elkhorn R., Madison co., Nebraska, U.S.A.,

in faring, country; p. 4, 120.
Norfolk Isl., fertile 4st. in Pacific, 800 m. E. of N.S.W.; area 13 sq. in.; formerly a penal settlement; pines, oranges, etc.; p. 1,000

Noric Alps, mins. rgn. in Styria, Salzburg, S. Austria, and Carinthia, betwn. valleys of Drave and Danube.

ann Carintina, netwin, valleys o' Drave and Danube, Normal, vzl. nr. Bloomington, M'Lean co., Illinois, U.S.A.; p. 5,220. Normandy, t. nr. Middlesbrough, N.R. Yorks; Normandy, old French prov. on Eng. Channel, mainly agr.; now divided into deps. Manche, Calvados, Eure, Seine Inférieure, and part of Orne. Rouen

was cap. The Roman Lugdunensis; later a powerful Dukedom, conquered Eng., 1065-69.
Normanton, colliery and ry. £. W.R. Yorks, Eng.; p. 15,033; also t. on R. Norman, Queensland; p. didst, 1,465. (40,453 cm.; p. 170,456. Cap. Pitea. Norbotten, on Pitea, N dest. Orizen, Sweden; area Nortstown, bor. on Schuylkill R., Montgounery co., Penn., U.S.A.; textile, hosiery, carpets, etc.; p. 27,874.

27.875.
Norrkjöping, c. on R. Motala, Östergötland prov.,
Sweden; cotton spinning, cloth wvng., shipbdg.;

p. 45,826.
Norriand.—(See Nordland.)
Norsewood, A. nr. Napier, New Zealand; p. 1,640, mainly immigrant Norwegians. [5,826. mainly immigrant Norwegians.

Nort, I. nr. Nantes, dep. Loire-Inférieure, France; p.

North Adams, c. on the Hoosac R. Berks co., Mass.,

U.S.A.; textiles, boots and shoes; p. 28,287.

Northallerton, mkt. L. in agr. dist. N.R. Yorks, Eng.;

p. 4,806. Northam, par. nr. Bideford, Devon, Eng., p. 5,500; also t. on R. Avon, nr. Perth, W. Australia; p. (dist.)

also t. on R. Avon, nr. Pertit, W. Australia; p. (assa.)
p. 4,249.
Northampton, S. Midland co. Eng.; area 685 sq. m.,
chfly, agr.; ming, and m.nuf. (especially boots); p.
348,552. Cap. N., t. on R. Nen, metrop. of Brit.
boot-mikg ind.; p. 90,076.
Northampton, c. on the Connecticut R., Hampsh. co.,
Mass., U.S.A.; collegate and mftg.; p. 22,149.
North A. "Aover, t. nr. Boston, Mass., U.S.A.; p. 5,40.
North A. "Boboro', t. in Bristol co., Mass., U.S.A.;
jewellery manuf.; p. 7,740.
North Australia, dist. or terr. N. of S. Australia,
washed by Timor S., Arafura S., and G. of Carpentaria.

4,948.

North Baltimore, vol. Ohio, U.S.A., Wood co.; p. North Berwick, t. on F. of Forth, Haddingtonsh.,

Scotl.; p. 3,247.

North Bierley, mftg. and ironwks. 4. nr. Bradford,
W.R. Yorks., Engl., p. (sub. dist, includg. Wyke),

w.k. fork., Engl., p. (suo. dist, includg. wyke), 22,130.

North Brabant, prov. in S. Holland. (See Brabant.)
Northbridge, industri. et n. Worcester, Mass., U.S.A., p. 6,230 (U.S.A., p. 4,124.
North Brookfield, mfig. vi.!, nr. Worcester, Mass., North Cape.—(See Nord Cap.)
North Cape.—(See Nord Cap.)
North Capo.—(See Nord Cap.)
Northouse, et n. Melbourne, vi. of tu. S. A., E. of Tennessee and S. of Virginia, area 52,250 sq. m., agr., cotton growg, and unifig., tolstee cult, and manuf., p. about 2,000,000, nearly one-third coloured. Cap. Ralegh, chf. port. Wilmington.
Northoote, et nr. Melbourne, Victoria, fruit-growg, and pastoral dist., p. 8,124
North Dakota, N. W. et of U.S. A., mainly rolling pratifie, agr. and miml., area 70,795 sq. m., p. 350,150.
Cap. Bismarck.
North Danville, et in Caledonia co., Vermout, U.S. A., p. 2,542.
(J.S. A., p. 3,052.
(J. S. A., p. 3,052.
(

Potriment, industri. 7. on R. Runnie, Hanover, Pruss., p. 8,20.
Northfield, vil on Cannon R., Minnesota, U.S.A., D. Northfield, vil on R. Thames, Engl., ading. Gravesend, p. 14,184. [and Nebraska, U.S.A. North Fork of Platte R. (800 m.). Colorado, Wyomug, North Holland, prov. of the N., heriands, on Zuyder Zee, and N.S., area 1,069 sq. m., p. 900,120. Cap. Activation 16, 421.

Zee, and N.S., area 1,059 sq. m., p. 900,120. Cap. Amsterdam (c. v.).
North Kingston, & Rhode Isl., U.S.A., p. 6,281.
North Kingston, & Rhode Isl., U.S.A., p. 3,488.
North Manchester, & Indiana, U.S.A., on Eel R.,
Wabash Co., p. 4,921.
North Mallon, & N. Devon, Eng., nr. S. Molton, on Northop, csf. par. Flintsh. Wales, p. 5,604.
Northowam, & nr. Halifax, W.S. Yorks, mfg., p.
North Plainfield, bor. Somerset co., New Jersey,
U.S.A., p. 5,849.
North Platte, c. Netraska, U.S.A., on Platte R., Lincoln Co., p. 4,724.

coln co., p. 4,744.
North Providence, r. Rhode Isl., U.S. A., p. 3,888; also isl. of the Bahanas.—(See Nassau.)
North Sea, or Germ. Ocn., arm of the Atlantic, E. of Gt. Brit., W. of Norway, Sweden, and N. Germ., and

N. of Holland, Belgium, and France, length 600 m., width 400 m.

North Shields, mkt. f. Northumberld., Eng., a Tyne port and part of the borough of Tynemouth (g.v.).

North Smithfield, f. Rhode Isl., U.S.A., p. 4,864.

North Somerset, ss. Arctic America, N. of Boothia, also suburb of Sydney, N.S.W., p. 39,470, and E. of Prince of Wales Isl.

North Sydney, spf. Cape Breton Isl., Nova Scotia, p. North Tarrytown, vsf. New York, U.S.A., p. 5,493.

North Tonawanda, c. Nigara co., New York, U.S.A., unfig., p. 12,261.

I and S. of Harris, 18 m. long.

North Unit, 101, of the Outer Hebrides, W. of Skye.

Northumberland, N. maritime co. Eng., on border of Scoti., area 2,015 sq m., pastoral, ming. and mare

Northumberland, N. maritime co. Eng., on border of Scotl. area 2,015 sq m., pastoral, ming, and man with shiphidg, on Tyneside, p. 69,014; cap. New-castle-ou-Tyne (g v)
Northumberland, bor. on Susquehanna R., Pena, Northumberland Isls., off E. cst. Australia.
Northumberland Straits, separates Prince Edward Isl, from Nova Scott-, and New Brunswick.
North Vernon, c. Indiana, U.S.A., Jennings co., p. 4-870.

4.870.

North Walsham, mkt. f. nr. Aylsham, Norfolk, Eng.,
North West Passage, betwn. Atlantic and Pacific,
on N. est, of America

North-West Frontier Province of India, area 13, mg. pq. mt., p. over 2,000,2000; cap. Peelukuur (2.7.).
North-Western Provinces and Oudh, former name of what is now officially styled the United Provinces of Agra and Oudh, Brit. India, total area 123,620 sq. mt., p. 48,00,000; includes the divs. of Meerud, Agra, Gorakpur, Kumaun, Rohikhand, Allahabad, Benares, Lucknow, and Fyzabad, also the nat. sts. of Rampur and Garwhal in the Himalayas, all of wh. see. North-West Territories of Canada, the tracts of Brit. N. America, N.W. of the older part of the Canadian Idomnion, inclig: the Alberta, Assimbola, Athabasca, Frankin, Keewatin, Mackenzie, Seekat-North-West Frontier Province of India, area 13.20

Athabasca, Franklin, Krewatin, Mackenzie, Saskat-Actionsca, Frankin, Keewatin, Mackenzie, Seskat-chewan, and Ungava, rearranged and organised at 1904 as the two provinces of Alberta and Saskato chewan (all of wh. seel. Area 2,523,375 st. m., p. 220,074 (includy, 27,000 Indian.) (salt mine dist., p. 18,15). Northwich, mkt. J. nr. Warrington, Cheshire, Eng., North Woolwich, L. on R. Thames, Essex, Eng.,

manuf., p. 7,480.
Norton, par. nr. Sheffield, Derbysh., Eug., p. 3,919.
Norton on-the-Moors, par. nr. Burslein, Staffs, Eng.,

Portion Sound, inlet W. est Alaska, Behring S., son Norwalk, t. on Long Isl. Sound, Farrfield c., connecticut, U.S.A., good harbr, flourishg, manuf., p. 21,163; also bor. Huron co. Ohio, U.S.A., mftg, centre of farming dist., p. 7,166.

Norway, sountry of N. Furope, W. sectn. of Scandinavian penn. area 12,441 So. m., p. 2,246,248, minous.

vian penin, area 124,411 50 m., p. 2,246,238, minous, with cst. broken by many fiords; cap. Christiania

(g.v.).

Norwich, c on R Wensum, Norfolk, Eng., cathedra'runed castle, manuf., p. 121,403; also vil. on Chemany, R., New York, U.S.A., in darrying regn., p. 6.25, also c. E. London co., Connecticut, U.S.A., paper and textle factories, p. 21,460.

Nerwood, S. subn. div. Lambeth, Sprrey, Eng., mainly result. for London workers and bus-men, p. 62,256 also vil. Hamitton co., Ohio, U.S.A., subn. to Connecticut, p. 7,460; also S.E. sub. Adelaide, S. Australia.

[10, 25,483.] Australia. [p. 35.483

Australia.

Nosari, c. in Baroda, Bombay, India, nr. Surat, mftg., Nosari Bé, French 12/2, col. off N.W. est. Madaguscar, area 130 sq. in., volcanic; coffee, sesame, sugar, toulacco, p. 10-420; cap. Hellville.

Notta, c. nr. Syracuse, Sicily, cathedral, wine, units Nottingham, midld co. Eng., area 824 sq. m., mannly pastoral and woodld., p. 604,077; cap. Nottingham c. on R. Trent, centre of Eng. lace industry, R.C. cathedl., fine bldgs., castle, museum, gt. mkt. sq., p. 250-042.

Notifing Hill, subn dist. W. London, Eng., p. 48,64.
Notting Hill, subn dist. W. London, Eng., p. 48,64.
Nouméa, or Port de France, cap. New Caledonia 22,
p. 10,826. [K. Meuse, foundriev, p. 9,226
Nousco, 2. nr. Mézières, Ardennes dep., France, on
Novara, Alpine 2702., N. Italy, in Piedmont, area
2,553 sq. m., cap. N., mftg. t. nr. Milan, p. 50,760.

Nova Scatla, markime prov. Canada, area 21,088 sq. m., mainly fertile uplands and rich valleys, but with mina along the cst., nr. B. of Fundy; much mineral wealth, and very val. fisheries, p. 46,600;

mmeral weatin, and very val. naneries, p. 404,000; cap. Halliax.

Nova Zembla, two large uninhabited is/s, in Arciic Coean, included in Russn. govt. Archengel, total area 35,321 Sc. m.

Novelda, f. on R. Vinalopó, Alicante prov., Spain; wine-growing dist., saline and sulphurous springs,

wine-growing cast, same and suppurous springs, p. 10, 116.

Novgorod, govt. N. Russia, adjing. St. Petersburg, area 47, 296 sq. m., agr. and mftg., p. 1,500,000; cap. Velki Novgorod, c. on R. Volkov, nr. Lake limen, old cathedl., p. 97,460.

Novi, s. nr. Medna, Italy, mftg., p. 7,081.

Novibazar, or Veni-Bazar, s. on R. Rashka, Bosnia, occurd by Austria, 1800, p. 1200.

Novibazar, or Veni-Bazar, & on R. Rashka, Bosnis, occupd. by Austria, 1879, p. 12,000.
Novigrad, 594. nr. Frume, Hungary, p. 8,936
Novi Ligure, & nr. Genoa, prov. Alessandria, Italy, noted for silk manuf., p. 74,600.
Novo Alexandrovsk, & govt. Kovno. Russ., nr. Dinaburg, p. 7,140.
Novo Georgievsk, industri. & nr. the Dnieper, Kherson govt., Kussia, p. 8,466.
Novograd-Volhynsk, & on Sluch R., Volhynia, Russ., iron and soap wks., busy fairs, p. 18,608.
Novograd-Wolhynsk, & nr. Grodina, govt. Minsk, Russ., mftg., 12,240.

Novogrodes, A. nr. Grodus, govt. Minsk, Russ., mflg., p. 13,242.
Novol Oosen, industri. A. govt. Samara, Russ., mflg., Novokhopersk, A. nr. Veroneszh, Russ., mflg., Novolkhopersk, A. (intrid.), Kherson govt. Russ., p. 4,622.
Novomoskovsk, A. (mflg.) on R. Samara, Yekater-Novo Redondo, 59t. Portug. W. Afnca, p. 6,146.
Novo Rosslysk, 59t. on N.E. cst. Black S., Caucasia, Russ., cf. grain export. p. 18,688.

Russ., grain export, p. 18,688. [12,883. Novo Sibkov, & Tchernigov govt., Russ., gd. tr., b. Novousensk, t, on Uzen R., Sauara govt., Russ., fortified impt. fairs, p. 15,468. Novoxybodf, t. surrounded by marshes and forest, in Chernigov govt., Russ.; tallow, hemp, preserved

meat; p. 17,464.

Nowgong, dist. Brahmaputra Valley div., Assam,
India; area 3,258 54. m., tea-growing; p. 261,000
(decreasing); c. N., t. on Kalang R., p. 5,050; also
name of a t. in the nat. st. of Chhatarpur Bundelikand
agency, India, with Brit. military cantonment; p.

Nowo-Radomsk, or Radomsko, t. nr. Plotrków, Russ. Poland; bent-wood furniture, textile, tanneries,

etc.; p. 14.650. Nowra, A. in co. Vincent, N.S. W., p. (dist.) 4.260. Nowra, A. Corunna prov., Spain; a very old t. with lace and linen industries; p. 9.684. Noyon, A. dep. Oise, France; burthpl. of Calvin, fine

cathed; p. 6.420.
Nubla, the anc. Ethiopia, an African country S. of Egypt, now included in Egyptian Soudan; chf. c, Khartoum (g.v.).
Nuble, R. and prov. Chili, bordering on the Argentine;

area 3.556 sq. m., p. 174,600; cap. Chillan.

Nueces, R. S.W. Texas, U.S.A., flows (400 m.) to
Corpus Christi B., G. of Mexico.

[4.548.

Corpus Christi B., G. of Mexico. Principe. (4.548. Nuevetaa, 59t. N. est. prov. Puerto Principe. Cuba, p. Nuevo Leon, st. Mexico; area 24,324 sq. m.; agr. and stock-rsg.; p. 350,480; cap. Monterey. Nukahiva, one of the Marquesas isls. (q.v.). Nukha, fort t. Transcaucassa, Russ.; noted for silk industry v. ne. r82.

Nukma, 10ff s. transcaucasa, kuss; nuceu or sine industry p. 90,784.

Numeerkah, s. Victoria, nr. N.S.W. border, p. ddist.)
Nua, chi. mith, of R. Niger; also R. (130 m.) on S. frontier of Morocco, with t. thereon, nr. C. Nun, gd. tr.; p. 5,40; also R. Manchuria, China, trib. (300 m.) of the Sungari.

Numawading, s. on Blackburn Creek, Victoria, p.

of the Sungari.

Nunawading, L. on Blackburn Creek, Victora, p.

Nunawading, L. on Blackburn Creek, Victora, p.

Nunaeaton, mist, t. Warwicksh, Eng: ribbon manul.,

glazed bricks, sanitary pipes; p. 37,082.

Nuariwak, ist. (yo m. long) in Bering, S. Alaska.

Nuoro, t. nr. Cagllari, Sardinia; industri.; p. 7,052.

Nurensberg, old c. in Middle Franconia, Bavaria, on

the R. Pecgnitz; manul, wooden toys, clocks, beer,

pencils, etc.; great hop tr.; castle and many

interestg, bldge.; made a free imp. c. in 1219, annexed to Bavaria, 1816; p. (commune) 29,651. [5,08. Nurfootpa, f. nr. Adelaide, S. Australia, p. (dist.) Nurfootpa, f. nr. Adelaide, S. Australia, p. (dist.) Nusco, f. in Avelino prov., Italy; manuf.; p. 5,082. Nusco, f. in Avelino prov., Italy; manuf.; p. 5,082. Nusco, f. in Avelino prov., Italy; manuf.; p. 5,082. Nusfled, par. sur. Nottinglanu, Eng., p. 2,143. Nustral, p. par. sur. Nottinglanu, Eng., p. 2,143. Nuwara Eliya, sanuadrisson, of Ceylon, 6,20 ft, above sea-level with Pedrotallegalla mnin. (2,05 ft. higher behind it, res. p. 5,000. Nusck, vil. on R. Hudson, Rockland co., New York, Nyanza, -See Albert Nyanza, Albert Edward Nyanza, and Victoria Nyanza. (1900. Nusco, 1900. Nusco, 1900. Nusco, 1900. O Centh. Africa, 1,500 ft. above 502-level, area 17,000 sq. iii. Nyasaland Protectorate, British Centl. Africa, on interestg. bldgs.; made a free imp. c. in 1219, annexed

Nyasaland Protectorate, British Centl. Africa, on

Lake Nyasa; area 44.00 50, in.; p. 948.276.
Nyborg, fort. \( \times \) on rsl. of Funen, Denmirk, p. 5.609.
Nyir Bathor, \( \times \) nr. Debreczin, Hungary, p. 4.540.
Nyireghyhaza, mftg. \( \times \) in Hungary, 29 m. N. of

Nyireghyhaza, mftg. £ in Hungary, 29 m. N. or Debirczin, p. 32,410.
Nykerk, £ in Gelderland, Holland; industl.; p. 7,650.
Nykephing, \$\text{st}\$. Denmark, co. Maribo, on lal. of Falsier; exports butter and bacon; p. 7,894.
Nykjöhing, \$\text{st}\$. Eventen, at hd. of ulet on coast, 68 m. S.W. of Stockholm; engineerg, and shipbligt, nimber tr.: p. 8,247.

[p. 240,669]; cap. Helsingfors.
Nymagee, £ in Mouramba, copper-ming, dist. N.S.W., 2. 472.
[fitst.] 4,684. Nymagee, t. in Mouramba, copper-ning, dist. N.S.W., p. 3,472. [dist.) 4,684. Nyngan, t. on Bogan R., Gregory co., N.S.W., p. Nyon, or Mion, t. on L. of Geneva, cart. Vaud, Switzld., p. 3,803. Nyona, t. n. Avignon, dep. Drôme, France p. 3,624. Nystad, 746. in govt. Abo-Björneborg, Finland, on G. of Bothma, p. 3,807. Nystrom, Mt., Fremont co., Wyoning, U.S.A. Nzobe, t. at W. extrem. Congo Free State, Centl. Africa, p. 8,100.

Nzoia, R. Equatorial Africa, flowg. (120 m.) to L.

Oahu, one of the Sandwich Isls., S.E. of Kauai; area 600 sq. m., p. 98,586, cap. Honolulu; also L. (fed by glaciers) in Mt. Cook dist., New Zealand (S. Isl.).

graciers) in Mt. Cook user, New Zenanu (5. 1814, 12 m. long by 24 m. wide.

Oajaca, or Oaxaca de Jaurez, st. on Pacific coast, Mexico, area 35,140 sq. m. agr. and mnning, p. 915,200 : cap. O., c. on Rio Verde, alt. 4,800 ft., centre of cochmeal trade, p. 34,126.

Oakbark, A. rr. Adelaide, S. Anstralia, p. (dist.) 4,248; also par. nr. Mid-Calder, I:dinburgh, Scotl., oil worke

Oak Bluffs, summer resort, Edgartown, Martha's Vineyard, Mass., U.S.A.; famous for its camp meetings. Oak Cliff, t. Texas, U.S.A., on Trinity R., Dallos co. p. 4,86a.

Oakengates, & nr. Shrewsbury, Shropsh., Eng., p. Oakham, nikt. & co. Rutland, Eng., p. (civil par.) 3,3ro. Oakhampton.—(See Okehampton.)
Oakland, & on San Francist o B. California, U.S.A.,

Oakland, c. on San Francisco B, Caltornia, U.S.A., of which it is a favourite resident, sub., p. 100,174.
Oakleigh, township, co. Bourke, nr. Melbourne, Victoria, p. (dist.) 1,874.
Oak Park, vid. Illinois, U.S.A. (now included in Oakworth, infig. t. nr. Keighley, W.R. Yorks, Eng., p. 4,279.
Oamaru, spt. on E. coast, S. Isl., New Zeelland, nr. Oatlands, eccl. dist. nr. Chertsey, Surrey, Eng., p. 2,180; also township nr. Hobart, Tasuania, p. 1,184.
Oaxaca.—Geo Qaiaca.

2,180; also towards and account of Coxaca. (See Oajaca.)

Ohan, spt. and burgh on Firth of Lorn, Argylish, Scotl.; fav. wat. pl. and summer resort of Highland Scotl.; fav. wat. pl. and summer resort of Highland.

Scotl.; fav. wat. pl. and summer resort of Higmston tourists; p 6.5%. [Ioum; impt. r. centre. Obeid, or El Obeid, t. in Kordofan, 215 m. S.W. Khar-Oberalp, Alpine per (all. 6.70 ft.) connecting Andermath with the Vorder Rhem Valley, Switzld. Ober-Ammergan, vol. nr. Munich, Up. Bavaria; famous for its decennial Passion Play, and for ivory and wooden toys. [p. 5.248.

Ober-Ehnheim, c. nr. Strassburg, Alsace, Germany,

Oberhausen, iron-mftg. 4. nr. Cologne, Rhenish Pruss., p. 42,684: also wil. nr. Ettenheim, Baden, Germany,

p. 43,684: also wd. nr. Ettenheim, Baden, Germany, p. 3,840.
Oberlahnstein, £ in Hesse-Nassau, Germany, at junction of Rs. Lahn and Rhine; old castle, anc. walls; wine tr. and mining; p. 8,330.
Oberland, or Bernese Oberland, plcturesque minous region in cant. Bern, Switzld.; great tourist resort.
Oberleutensdorf, £ in Britk dist., Bohenia; colliery dist., textile and other manufs.; p. 13,286. [4,123,0berlin, zvf. Lorain co., Oliio, U.S.A.; college; p. Oberpfalz, or Upper Palatinate, Bavariancircte adjng. Bohemia; area 3,779, 30, m. p. 550,456, cap. Ratisbon.
Oberrad, mfg. £ nr. Frankfort-on-the-Main, Pruss., p. 6,125. [for cutting precous stones; p. 18,744.

6,135. [for cutting precious stones; p. 18,724.
Oberstein, t. on R. Nahl, Oldenburg, Pruss.; famous
Oberwesel, t. nr. Coblenz, Rhenish Pruss.; formerly free imperial t, with towered walls, and ruined

free imperial t, with towered walls, and ruined castle of Schönburg, opp. romantic rocks of the "Seven Sisters," p. 26,48.

Obi, Ob, or Obe, R. of W. Siberia, flows from the Altai Mtns. to the G. of Obi, length (with its trib. the R. Irtish) 2,600 m., the G. of O. is an inlet of the Arctic O (length 600 m) N. of Siberia.

Obock, or Obok, French 39t. on Tadjura B., in the Red S., with a col. (extending 40 m. inland) opp. the extreme S.W. of Arabia.

Oboyan, t. in Kursk govt., Russia; industl., p. 8,124.

Obwalden, half cant. Unterwalden, Switzld. (9,20), area 189 sq. m.

Obwaigen, nair cant, Onterwaigen, Spinger, 19-5460.

Ocala, c. Florida, U.S.A., impt. ry. centre Marion co. Ocana, and L. un the O. plateau nr. Aranlucz, Toledo prov., Spain, centre of pottery industry in winegrowing, dist., runned castle, p. 6,000; also t. in Magdalena st., Colombia, indust., p. 7,140.

Occhiobello, t. (mfg.) on R. Po, nr. Rowigo, Italy,

p. 5,083. Occan Grove, t. in New Jersey, U.S.A., seaside rest.

S. of Long Branch, p 3,126.

Occania, or Occanica, name given to the isids, of the

Pacific; divided usually into Australasia, Malaysia, Polynesia, Melanesia, and Micronesia. Ochakoff, fort. L. in Odessa dist., Kherson govt., Russia, on a cape of the Black S.; gt. grain tr.,

Russia, on a cape of the Black S.; gt. grain tr., p. 72,670
Ochill Hills, Scottish range reaching from the Firth of Tay to nr. Striling; highest ik., Ben Cleugh.
Ochrida, t. on L. of O. Albaina, Turkey, nr. Monastir, p. 17,180. The L. of O. (anc. Lacus L.ychnits) is about 18 m. long.
Comulgee, R. Georgia, U.S.A. in the Comulgee on in W. of Savannah (after flowing 250 m.) to form the Altam tha.
Comonowac, t. nr. Milwaukee, Wisconsin, U.S.A.; Oconto, t. on Green Bay, and the O. R. O. co. Wisconsin, U.S.A.; manuf., p. 7,148.
Cossinge, t. nr. Falenque, Chiapas st., S.E. Mexico; anc. ruins, p. 11,460.

occusing 9. nr. raienque, Chapes st., S.E. Mexico; anc. ruins, p. 11,460.
Ocumare, t in Bolivar st, Venezuela, nr. Caracas; Odawara, est. t. nr. Tokio, Japan; p. ró,424; gt. trade Odemish, Turkish t. in Asia Munor, N.E. of Aidin and W. of Suyma; p. xo.,122; flourishg, trade.
Odenkirchen, mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss., nr. Düsselderf nr. den mftg. t. in Rhemsh Pruss.

dorf, p. 16,140.

Odense, spt. on isl. of Funen, Denmark; anc. c. said to have been founded by Odin; thrug, ind. and tr.,

p. 43,484.

Odenwald, wooden mtn. rrgn. of Hesse, Germy, betwn. R.'s Neckar and Main; with many romantic ruined castles; highest pt., hill of Katzenbuckel,

ruined castles; highest pt., hill of Katzenbuckel, overfooking Eberbach, 2,057 ft.

Oder, R. Germy, flowing (550 m.) from Moravia through Siletia, Brandenburg, and Pomerania, past Breslau, Frankfort, and Stettin, to the Baltic; the Roman Vladus.

[Opitrogium; p.,712-00derzo, J. nr. Venice, prov. Trevso, Italy; the anc. Odessa, chf. 59t. Russia, on Black S.; gt. grain export founded 1994, bombached by English and French 1984; p. 478,900.

Odlham, mat. t. nr. Winchester, Hants, Eng., p. 3,002.

Odechburg, or Sopresy, ryl. free c., Hungary; cap. Odechburg co.; flowinshing tr.; p. 33,000. [6,800.

Gederan, t. nr. Zwickau, Saxony; woollen manuf.; p.

case, r. on R. Ous, ar. Breslau, Prusan. Silesia; castle; p. 10,840.

Oelsaitz, e. on Weisse Elster, nr. Plauen, Saxony; Oelwein, c. and ry. centre, Fayette co., Iowa, U.S.A., 19, 7,183.

Oerebro, mfg. e. at end of Hjelmar L., Oe læn, Cesel, s.e. in the Baluc, govt. Livoma, Russ., 45 m. by 25 m.; p. 55,460; chf. t. Arensburg.

Oesstergölland, læn or prov. of S.E. Sweden; area 4,207 89, m.; p. 27,085. Oels, t. on R. Oels, nr. Breslau, Prussn. Silesia; castle;

4,267 sq. m.; p. 270,868.

Eta, m/n. in Centrl. Greece, flanked by the pass of Thermopylæ; the modn. Katavothra; alt. 7,060 ft.

Thermopylæ; the modn. Katavothra; alt. 7,060 ft. Offenbach, \( \ell \), on R. Main, nr. Frankfort, Hesse, Germy.; fancy leather yds., manuf.; p. 75,000.
Offenburg, \( \ell \), on R. Kinzig, nr. Carlsruhe, Baden; cotton and other manuf.; p. 15,450.
Ogden, \( c \) of Weber co, Utah, U.S.A., nr. the Great Salt L.; impt. \( 1 \) and ry. centre; p. 25,580.
Ogdensburg, \( c \), and \( r \) on R St. Lawrence, New York, U.S.A., opp. Prescott; good trade: p. 13,811.
Ogecchee, \( R \), Georgia, U.S.A., flows (200 m.) to the Atlantic, S. of Savania:
Oggersneim, \( L \), an the Palatinate, Rhenish Bavaria; Oglio, \( R \), Italy; traverses L. Isee, and flows (23 m.) to the Po.
Ogmore and Garw, industri, \( L \), in Bridgend, Glacogowe, \( R \), of Freich W. Africa (700 m. long), enters Atlantic at C. Lopez.
Ohlo, \( R \) of America, tiib, of R. Mississippi; formed

Ohio, R of America, tilb. of R. Mississippi; formed in Penn., U S A. by the junctu, of the Monongaliela and Alleghany Rs. at Pittsburg, thence mayigable for 975 m. to Cairo in Kentucky, 1,260 in, from the mth. of the M. R.

Ohio, centrl. state of U.S.A., N. of the O. R. and S. of L. Erie and Mr. higan; area 41,660 sq. m; gt. farming and ming rean, p. 4,500,000; cap. Columbus; largest cities Cleveland and Cincinnati.
Ohlau, c. on R. Oder, Silesia, Pruss., nr. Breslau; in

Ohlau, 2 on R. Orier, Silesia, Fruss., nr. Breslau; in tobacco grower, and mftg. dist.; p. 10,402.
Ohligs, tormerly Merscheid (q.v.).
Ohlomura, L. on Kiu-Siu Isl., Janjan; active tr., p. Ohrdruf, L. dijng. Luwenthal, Saxe-Coburg-Gotha, Germany; porcelain wrks., p. 6,510.
Olich, Loch, L. in the Great Glen, Invernesy-sh., Scotl., 6 ni. long, 1 m. wide.
Oli City, Venango co., Penn., U.S.A., on the Alleghany
Olise, dep. N. France, traversed by R. Ouse (189 m., till. of R. Senie), atea 2,292 sq. m.; agr., gdng. and manuf., p. 400,000, cap. Beauvais (q.w.)
Oka, R. Kuss., trib. (sgo m.) of R. Volga at Nizhai Novgorod, elso R. of Siberia, in the Russn. govt. Irkutsk, trib. (sgo m.) of R. Angora.
Okasaki, L. nr., G. of Ovari, Jajun; industri, p. 16,112.
Okayama, L. in Bizen prov., Npon isl., Japan; gt. tr., and throver, manuf., p. 57,240.

Okayama, I. in Bizen prov., Nipon isl., Japan igt. tr., and thrive, manuf., p. 57,240.
Okehampton, old inkt. I. in: Tavistock, Devon, Eig..
Okhotsk, cst. I. in E. Siberia (p. 8,12c), on Sea of U. a gt. guif (1,000 m. by 500 m.) of the North Pacific, enclosed by the Siberian maintld., Kamschatka, the Kurikes Isls., Yesso, and Saghalien Isl.
Oki, grp of Japanese Isls., N of prov. Isumo, princpl. Dógo, total area 179 sq. m. p. 64,800 : cuttle fishing.
Okiahoma, Yate of the U.S. A., including the Indian Terr. m. 1800 area 20.025 sq. m. p. varure, bajass, and

Terr. in 1800, area 70.057 sq. in cluding the indian Terr. in 1800, area 70.057 sq. in ; prainte, plains, and inthe, p 1.657, 155, inclusive of 12.000 Red Indians in the reservations Clif ie., Guthirie (the cap.) and Oklahoina Clit, both of which have a gd cotton tr. Oktoloma, 2. in Mississippi, U.S.A., Chukasaw co.

p. 4.120.
Oland, or Oeland, isl. on Calmar Sound, E. cst, Sweden, area 533 sq. m. p. 30,500. Cht. t. Borgholme, a sea-side resort (q. v.).

Olathe, mftg. t. on Missouri R., Kansas, U.S.A., nr Kansas City, p. 4836. [nr. Birmingham, p. 32,240. O'dbury, mkt. and industr! /. in Worcestersh., Eng., O'l Castile, former prov. of Spain, N. portion of anct. kingdom of Castile, now divided into Santandor,

Soria, Segovia, Logrono, Avila, Valladolid, Palencia, and Burgey prov., all of which see. Oldebroek, 201. in Gelderland, Holland, ar. Elburg; industri., p. 5, 136.

Oldenburg, grand-duchy of Germany, total area 2,479 sq. m.; agr., brewing, manuf., shipping, p. 490,146; cap. O., c. on R. Hunte, nr. Breinen; impt. horse fatr, grand-ducal palace, p. 28,460. Also name of a t. in Holstein, Pruss., 30 m. N.E. of Lubeck, p. 3,440. Oldenzaal, f. in Overyssel, Holland, nr. Delden; ganut, p. 4,74. [anthractic coal regn., p. 6,184.] Old Forge, bor. in Lackawanna co., Fenn., U.S.A.; Old Forge, 60:: th Lackawanna co., renn., U.S.A.; Oldham, cotton mfg. f. on R. Medlock, nr. Manchester, Lancs, Eng., p. 147.495.
Old Man of Coniston, min. N. Lancs, Eng., alt. Old Medrum, vil. in Aberdeensh., Scott., p. 7.170.
Old Town, c. on Penobscot R., Maine, U.S.A.; industri n 6.628

Jid 10wm, c. on renouscot R. Maine, U.S.A.; industri, p. 6,088. [regn., p. 10,472. Glean, c. on Allephany R., New York, U.S.A.; oil Oleggio, c. in prov. Novara, Italy; industri, p. 9,428. Glenek, K. Siberia, flows W. of the Lena, 800 m., to Arctic Qeean,

Arctic Ocean. [p. 19,470]
Oleron, French & On B. of Biscay area 59 sq. m.,
Oleronol, t. in Podolia govt., S. Russ.; niftg., p. 6,149.
Olinas, cst. t. in Faro dist., Portugal ; fisheries, p. 10,110.
Olifant R., S. Africa, rises nr. Heidelberg in the
Transval Colony, joins the Limpopo in Portuguese
terr., and flows to the Atlantic.

Distant Colons of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of Post of

CHILARI R., S. AITICA, RISSS Nr. Heldelberg in the Transvala Colony, Jonn the Limpopo in Portuguese terr., and flows to the Atlantic.

[J. 8,848]

[J.

Ols.—(See Oels.) Olsnitz.—(See Oelsnitz.)

Oltenitza, t. on R. Danube, Ilfov. dist., Roumania; the anc. Constantiola, p. 5,800.
Olvera, t. nr. Cadiz, Spain; thriving tr., p. 8,894.
Olviopol, t. on R. Bug, Kherson govt., Russ.; mftg.,

p. 6,120.

Olympia, a plain of Peloponnesus, Morea, Greece, on R. Ellis, where were held the Olympian games; also name of a modern c. of Washington, U.S.A.; timber

name or a much service of trade, p. 4,100.

Olympus (mod. Elymbo), min. Thessaly, Macedona, W. of the G. of Salonica, alt. 9,753 ft.

Olympus, bor. on Lackawanna R., Penn, U.S.A., p. [on R. Irtish.

on, A. Siberia in the Russ, govt. Tonsk, trib. (330 m.)
Omagh, t. on R. Strule, Tyrone, Ireld, p. 4,220.
Omaha, c. on Missouri R., Nebraska, U.S A., gt. tr.
and mfg. centre, p. (exclusive of South Omaha)

Oman, kingdom on S.E. cst. Arabia, under Brit. supervism, area 82,000 sq. m., p. 7,500,000, agr. and fruitgrowg. Cap. Muscat (9.2.). The G. of Oman, an arm of the Arabian S., forms entrance to Persian G. Ombay, Australusian 111/1, 50 m. by 30 m., N. of Timor, p. 196,220. p. 2,289.

monay, Australasian 1st., 50 m. by 30 m., N. of Timor, p. 395.200.

Combersley, par. nr. Droitwich, Worcestersh., Eng., Combrone, R. of Tuscany, Italy, flows to the Mediterranean (85 m.) nr. Grosseto, the anc. Umbro Gendurman, c. in the Soudan, on R. Nile opp. Khartoum, built by the Mahdr; here Kitchener defeated the Dervishes, 1898.

Commence, Parasity, Victoria, Benambra co., p. (dist.), 3,140.

Commence, Parasity, Victoria, Benambra co., p. (dist.), 4,140.

Commence, Parasity, Victoria, 4,140.

Commenc

Ladoga, area 3,765 sq. m., also R. of the Russ, govt. Olonetz and Archangel, flowg., oo m. to the C. of Onega, a southern arm of the White S.; also t. in the govt. Archangel, at mth. of O. R., p. 3,120. Oneglia, 3% on G. of Genoa, nr. Nice, Italy, olive oil

Onegia, 59. on 0. or Genoa, nr. 1810, navy, ourse on tr., p. 7,98. on Manukoa Harb., nr. Auckland, New Zealand, p. 3,120. Oneida, L. nr. Syracuse, New York, U.S. A. (20 m. by 6 m.) discharges by R. Oneida (16 m. long) to R. Seneca; Oneida t. Madison co., N. York, is on bank of 0. or from C. 10. or for the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the form of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the

p. 11,248. [Ingoda. Onon, R. Siberia and Mongolia, trib. (380 m.) of R. Ononduga, L. nr. Syracuse, New York, U.S.A., 5 m.

Onon, R. Siberia and Mongolia, trib. (380 m.) of R. Ononduga, L. nr. Syracuse, New York, U.S.A., 5 m. long by 1 m. wide.

R. Syaco Onstwedde, mftg. t. prov. Gröningen, Holland, 1. Ontario, L., smist, of the great lakes of the St. Lawrence basin, separating the Canadian prov. of O. from New York, U.S.A., area 6,500 sq. m. The prov. of O. fromerly called Canada W., or Upper Canada has a total area of 222,000 sq. m., great mineral wealth with much fertile land, producg: mmense grain crops, p. 2,250,000. Chief towns Toronto (the prov. cap.) Ottawa (the cap. of the Dominion), Hamilton, and London (all of which see).

Onterliente, industri. 4. on R. Clariano, Valeucia, Spain, Oosterhout, mftg. 4. pr. Breda, N. Brabant, Holland, p. 11,436.

Opatow, 4. nr. Sandomier, Radom govt., Russ., on the Opelika, mftg. 4. Lee co., Alabama, U.S.A., p. 10,180.

Opathy M. Malay Penus, 45 m. E.N.E. of Mainchester, p. 18,480

Ophilr, 1847. Sumatra, nr the Equator, alt. 9,603 ft.; also ming. t. nr. Dunedin, New Zealand; also gold-field dist. N. Sw., nr. Bathurst.

Oporto, 184, of Portugal on R. Donro, second c. in the ctry, for commercial improve.

Zcaland i also gold-field dist. N S.W., nr. Bathurst. Oporto, spt. of Fortugal on R. Douro, second c. in the ciry, for commerci. impirce, and pop. (188,000), gt. wine tr., many manuf, flourishg. fisheries, contains the royal pal of Torre de Marca, and many fine bldgs, and large myntutins oppelin, L. on R. Oder, Frussn. Silevia, former cap. of principality, remains of palace, sear of administin, Upper Silesia, p. 36,424.
Oppido, L. nr. Palmi, Calabria, Italy, industri., p. 6,840
Opwyck, mfg. vil. nr. Brussels, Belgium, p. 4,945.
Oran, port of Algeria, on G. of Oran, gt. tr. in wood, wines, od., and grain, p. 100,050 (more than a quarter

Oran, port of Aigeria, on the of Oran, get. tr. in woon, wines, oi, and grain, p. 100,050 (more than a quarter each French and Spaniards).

Orange, and A Vauchuse dept., France, p. 10,120; also t. in fruit growg, and mining dist. N S W., p. 7,420. also c. Essex co., New Jersey, U.S.A. (residi. sub. of New York et al. 20, 680.

or Soc. 1886 C., New Percy, U.S.A. (restan sub. or New York C.), p. 29,680.

Orange (or Gariep) R., chief R. of S. Africa, flow-(1,200 m.) from Basutoland to the Atlanta.

Orange Free State, province of the Union of S. Africa,

area 50,392 sq m., exports wool, hides, diamonds, ostrich feithers, etc., p. 385,000 (143,419 being

Orangeville, & in Wellington co , Ontario, Canada, p Oranienburg, on R. Havel, nr. Potsdam, Pruss,

Oranienburg, on K. Havel, nr. Potslan, Pruss, industri, p. 5,123.

(cathed), p. 4,123.

Orchetal, fortifi. Z. Grosseto prov., Tuscany, Italy, Orchha, Urchha, or Tehri, nat. st. Bundelkhand Agcy, Centl. India, area 2,000 sq. m., p. 384,00.

O. t. on R. Betwa, the former cap., has a palace and fort; Tehri, prest. res. of the clft, is 40 m. S. and is also fortified.

(Footh, alt. 1,200 ft. Ord O'Calthness, **ill* and **hdland*. nr. Helensdale, Ord of Calthness, **ill* and **hdland*. nr. Helensdale, Ordu, **O on th. cst. Asia Minor, nr. Kersaund, gd. tr., p. 6,084.

(p. 19,268); cap. O. (See Oerebro.)

Orebro, **prov. Sweden, **area, 3,502 sq. m., Torgon, Pacific **st., U.S.A., between Washington and California, area 96,000 sq. m., mountainous and timber and minl.-producing, fishery and fish canning, mftg., p. 68,240; cap. Salem; Oregon c. is a small mftg. centre on the Williametro R., at the falls, in Clackmanas co., within Oregon st., p. 4,040.

Orekhov, **t. in Taurida govt., **Russ., nr. **Yekaterinoslav. industri., p. 7723.

Orel, govt. middle Russ., E. of Smolensk, area 18,040 sq. m., agr. and stock-kpg., p. 2,250,000; cap. Orel, on R. Oka, p. 72,000; the R. Orel flows 130 m. to the Dnieper, in the Poltava govt.
Orenburg, prov. E. Russia in the S. Urals, area 73,816 sq. m., rich in minerals, p. nearly 1,750,000; cap. Orenburg (famons for its horse fairs, and its shawls knitted from goat wool), p. 95,406.
Orense, inland prov. N.W. Spain, area 2,738 sq. m., timber and fruit growg., agr., p. 405,000; cap. O., c. on R. Mino, p. 15,766.
Orfa, or Urfa, fort. t. of Turkey in Asia, nr. Diarbekr; p. 3,846.

on R. Mino, p. 15,760.

Orfia, or Urfa, fort. L. of Turkey in Asia, nr. Diarbekr;
p. 3,846.

Orford, fishery L. on R. Ore, Suffolk, Eng., nr. Ipswich;
p. 3, 346.

Orford Ness is a cst. promonty, 2½ m. to
the S. E. [Old Dacian fortress; p. 1, 4,608.

Orghyseeff, L. in Bessarabia prov., Russ.; on site of an
Orla. or Uritana, A. nr. Hrindisi, prov. Lecce, Italy;
gd. tr.; p. 8,980.

Orlente, **terr* of E. Ecuador, N. of R. Maranon,
inhabited mainly by roving Indians, est. at about
480,000. [clist., with silk and other manuf.; p. 27,110.

Orlinella, L. in Alicante prov., on the R. Segara; agr.

Orlinella, L. in Alicante prov., on the R. Segara; agr.

Ontario, Can.; p. 5,018.

Orlinoco, R. Venezuela; rises in Parinia mtns, and
flows circuitously 1,480 m. to the Atlantic opp.

Trinidad. Its rib., the Casaquiare, connects it with
the Rio Negro and the Annazon. Jindustri, p. 4,220.

Orlolo, L. in prov. Cosenza, Italy, nr. Roseto;
(7,20), Brit. India, formerly a Hindu kingdom, fell
later under Mogul and Mahrata rule, and then
under British domination in 1803.

Orlistano, L. on R. Tirso, Cagharia, Sardinia; cathedl.;

B. 1,124.

p. 7,124.
Orizaba, t. in Vera Cruz prov., Mexico; p. 30,180;
good tr. Near is the slumbering volcano, same

good tr. Near is the slumbering volcano, same name, alt. 17,38 / ft.
Orkhon, R. Mongolia, trib. (310 m.) of R. Selenga.
Orkney, 22, of Scotl., fornied of an insular grp, in the N. Sea, 68 isls in all, 20 being inhabited; total area, abt. 360 sq m.; p. 25,500 Largest isl, Poinona or Mainland, Kirkwall (7 v) cap. [9, 4824.
Orlando, industri. c. Florida, U.S.A., in Orange co. [9450.00] is old Agest. France, Corpus pondung analysis. Orléannais, old prov. France, corresponding mainly to pres. deps. of Loire-et-Cher, Eure-et-Loire, and

Loiret.

Orleans, c. on R. Loire, Loiret dep., France; and cap. Orleannais; gt. trade in wine, brandy, wool, blankets, etc.; hdqrs, army corps; grand cathedl.;

blankers, etc.; helgrs, army corps; grand caihedl.; university; p. 73,400.
Orleana, Iale of, in St. Lawrence R., nr. Quebec, Canada; area o sq. m. [p. 24,583, Ormesby, industri. nr. Middlesbrough, Yorks, Eng.; Orme's Head, Great and Little, promontories on cst. Canarvon, N. Wales, 33 m. W. of Liverpool.
Ormskirk, silk and cotton mfg. L. Lancash., Eng.; p. 7,409.
Ormus, tst. and strait at entrce, to Persian Gulf; rained Orne, dsp. Normandy, France; area 3,372 sq. m.; agr., dairying, stock-keeping, fruit-growing; p. (decreasg.) 324,000. Cap. Alencon (g. 21.)
Orono, t. Maine, U.S. A., on Penobscot R.; p. 4,764.
Orontes, R. of N. Syris; flow; 200 m. past Antioch to the Mediterranean. [plg keepg, dist.; p. 29,460.
Oroshaza, mkb. t. Hungary, nr. Szegedin; in agr. and

orontes, K. O. N. Syra; how soo in pass America. to the Mediterranean. [pig keepg. dist.; p. 29,460. Oroshaza, mkt. f. Hungary, nr. Szegedin; in agr. and Orotava, f. in Tenerife, Ganary 181, g. dt. r.; p. 8,50. Oroya, f. on R. Montara, Peru, alt. 12,178 ft.; p. 8,50. Orpolagon, per. and residenti. dist., Kent., Eng., adjng. Chislehurst, p. 3,869. Orana, indust. f. nr. Bovino, prov. Avelino, Italy, p. Oraha, Russian f. m R. Dnieper, Moghilov govt.; mkt. for grain and tumber; p. 15,400. Orake, f. on R. Ural, Orenburg, Russ. in prairie and stock-raising dist.: tanneries and tallow factories; p. 16,603. [Cates Pass, p. 5,066. Orawa, mkt. f. on R. Danube; Hungary, nr. the Iron-Orta, f., of Italy, W. of Lago Maggiore, area 7 sq. m; also t. in Foggia prov.; on shore of L. Orta, p. 7,132. Ortes, f. in Italy, on R. Tiber, nr. Viterbo; hudustr.; p. 4,893. [France; manuf.; p. 7,012. Ortics, f. on the Gave du Pau, dep. Basses Pyrénées, Ortics, f. in Guarico st., Venezuela; good tr.; p. 8,946.

Ortler Spitz, mtn. 10 m. S. of Glarus; the loftlest in the Tyrol, alt. 12,811 ft. [2,657. Orton, mkt. 2. ar. Appleby, Westmorland, Eng., p. Ortona, mfg. 4. on the Adriatic, prov. Cheet, Italy; cap. of anc. Frentanl, p. 15,65.
Oruro, dep. Bolivia, E. of I'eru; area 21,320 sq. m.; p. 112,000 (three-fourths Indians); cap. O, t., p. 13,000. Orvieto, 4. in Umbria, Italy, prov. Perugia, on R. Pagia; cathedral, Etruscan antiquities; p. (communal) 18,246.
[Irou Ilpswich to Harwich. Orzell, R. Suñolk, Eng., estuary of R. Gipping, runs Orzel-Norvi, 4. nr. Bresci, N Italy; industri. p. 6,822. Osage City, nr. Topeka, Kausas, U.S.A., p. 4,185.
Osaka, large spt. 2. and commercial centre, Hondo I.J., Jajan; great tr. and mpt silk, tea, and other industries; Sluntoand Buddhist temples; p. 1,250,000. Osawatomle, c. Kansas, U.S.A., on the Osage R., p.

Osawatomie, c. Kansas, U.S.A., on the Osage R., p.

Osborne, Isle of Wight, former marine English royal res. now Convales. House for Army and Navy Officers,

oscarschamn, vt. on Calmar Sound, Sweden, p. 7,878.
Osceola Mills, bor. Clearfield co., Penn., U.S.A., p. 3,824.
I and machine factories; p. 11,040.
Oschatz, t. on R. Döllintz, Leipsic, Saxony; sugar oscherselben, t. nr. Magdeburg, Saxony; lignite mines, various manuf.; p. 15,082.
Oscoda, vd. nr. Bay City, Michigan, U.S.A., p. 3,426.
Osero, coast t. on Adriatic, Lossini Isl., Austria; p. 2,885.

2,845. [13. 40,820. Osh, r. Fergana govt., E. Turkestan; large China tr., Oshawa, vil. on L. Ontario, nr. Toronto, Canada, p.

Oshima, group of 3 sm. Japanese isls, S. of Kiu-Shiu.
Oshkosh, c. on Fox R., Wisconsin, U.S.A.; extensive

Öshkosh, c. on Fox R., Wisconsin, U.S.A.; extensive manuf.; p. 33.0'22.

Oshmuneyn, vvl. in Egypt W. of R. Nile, tr. centre, Oshtaskov, t. on L. Seliger, govt. Tver, Russ., taniery and boot-make, centre, p. 1,243.

Osimo, t. in Ancona prov., The Marches, Italy, cathiedl, silk-spinning, p. 5,100.

Okaloosa, c. of Mahaska co., lowa, U.S.A., in agr. and colly, regin., p. 11,748.

Osman Bazar, t. Bulgaria, nr. Shumla, gd. tr., p. Osmabriick, govt. Hanover, L. of Holland, p. 310,000; cap. O., t. (sometimes called Oshaberg) in valley N. of the Pentofurger Forest, cathedl., many manuf., p. 66,004.

p 00,000.
Ospina, t. in Portuguesa st., Venezuela, good tr., p.
Ossa, mtn. Thessay, N. of Vale of Temple and Olym-pus, alt. 0,00 ft (Elig., p. (with Gawthorpe) 14,081.
Ossett, industri. bov. in: Wakefield, W.R. Yorkshi, Ossining, val. Westchester co., New York, U.S.A., on Hutton R. (formerly Sing-Sing), has famous prison,

Ossining, 7nl. Westchester Co., New York, U.S.A., on Iludson R. (formerly Sing-Sing), has famous prison, p. 8,400.

Stend, 5tl. and pop. wat. pl., Belgium, pas. route betwn. Britam and cont. of Europe, p. 50.180.

Sterburg, A. nr. Magdeburg, Pruss. Saxony, p. 4,870.

Osterode, t. at foot of Harz niths, nr. Göttingen, Ilanover, metal and textile indust, p. 7,152; also t. on L. Drewenz, E. Pruss., old Teutonic castle, papulatories, agr. and timber tr., p. 15,110.

Ostersund, t. in Jamiland, Sweden, on Storr L., in dustri., p. 7,488.

Ostia, anc. fort on R. Tiber, f. c. of Rome, Italy, marshy situata, archaeological remains,

Ostiglia, t. nr. Mantua on R. Po, Italy, industri., p. Ostrau, t. on R. Ostrawitza, Moravia, in colly, and ironwks, dist., p. 35,800; also t., opposite the latter, in Austrian Silessa, in coalfield, p. 21,564.

Ostrog, C. in Vollynia govit., Russ., on R. Gorvi, leather tanning, p. 16,245.

Ostroy, t. in Russn. Poland, govit. Lumza, agr. melv. Ostrow, t. in Russn. Poland, govit. Lumza, agr. melv. Ostrow, t. nr. Brindis, prov. Lecce, Laly, mantif, and tr., p. 20,120.

Ostund, t. nr. Brindis, prov. Lecce, Italy, mantif and tr., p. 20,120.

tr., p. 20,120, Osuna, t. in Seville prov. Spain, commerci., p. 19,44, Oswaldthistle, mfig. t. nr. Blackburn, Lanca., Eug.,

p. 15,720. Oswego, industri. c. New York, U.S. A., on L. Ontano;

foundries and factories; p 23,368; also t. on Neosho

foundries and factories; p. 02,568; also t. on Noosho R., Kansas, U.S.A., p. 4,500. [p. 9,991. Oswestry, mkt. t. Shropsh, Eng.; ry. centre, castle; Otago, prov. dist. New Zealand, S. porin. So. 8.1 area 23,467 sq. m., mknous, aiforested, rich in gold; cap. Dunedin (p. v). Otaheite, or Tahitd, largest of the Society titls., French possn. in Eastern Archipelago; area 41sq. m.; cap. Papeete, p. 12,060. [quake in 1868. Otavalo, t. nr. Quito, Eucador, destroyed by earth-otchakov, t. on R. Dnieper, Kherson govt., Russ.; industri ; p. 7,468. Otley, t. on R. Wharfe, W.R. Yorks, Eng.; mchy., paper, and printing works, tanneries, etc.; p. 9,843. Otranto, fishg. t. S. Italy, on Strat O. (entrance to the Adriatic between Albania and Italy), p. 2,874. Once a flourshing c, cathedral and fine mossic pavement. Lecce prov. was formerly known as Terra di

the Adnatic between Albamia and Italy), p. 2874.
Once a flourishing c, cathedral and fine mossic pavement. Lecce prov. was fornierly known as Terra di Otranto.
Otsego, L. in O. co., New York, U.S.A., 9 m. Jong.
Otsu, L. in Om prov., Yeso isl., Japan: busy tr.; p. 21.600.
Ottaliano, L. nr. Naples, at foot of Mt. Vesuvis, p. 39.455.
Ottakring, f. subn. to Vienna, Austria, p. 39.455.
Ottakring, f. subn. to Vienna, Austria, p. 39.465.
Ottakring, also cat mouth of Fox R., Illinos, U.S.A.; nanuf; p. 11,460; also c. on Osage R., Kansa, U.S.A.; nanuf; p. 11,460; also c. on Osage R., Kansa, U.S.A.; nanuf; p. 11,460; also c. on Osage R., Kansa, U.S.A.; nanuf; p. 11,460; also c. on Osage R., Kansa, U.S.A.; nanuf; p. 11,460; also c. on Osage R., Kansa, U.S.A.; nanuf; p. 11,460; also c. on Osage R., Kansa, U.S.A.; for midst of gr condien! p. 22.012.
Ottoman Empire.—(See Turkey.)
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Ottoman Empire.—(See Turkey.)
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m 1700. Awadh, **του. (and former kingdom) amal-gamated with N.W. Provs., linda; area 23,965 κq m; p. 13,000,000: vast well-cultivated fertile plain be-tween Nepual and R. Ganges; cap. Lucknow (φ.ν.). Oadtaboorn, τνί. C. Colony, Brit. S. Africa, on Oliants

R., p. s.084.

Oudtaboorn, vst. C. Colony, Brit. S. Africa, on Olifants R., p. 8084.

Ougree, t. on R. Meuse, nr. Liège, Belgum; industri, (in colly, dist.); p. 15,470.

Ouilling, t. nr. Lyous, dep. Rhône, France; manuf.; Ouiton Brasad, L. Suifolk, Eng., nr. Lowestoft.

Oundle, mkt. t. on R. Nen, Northants, Eng., p. 2,008.

Ouray, c. Colorado, U.S.A., Ouray co.; industri.; p. 5,049.

Ourour Preto, t. cap. Minas Geraes prov., Brazil, nr. gold-muses, p. 0,1600.

Ourthe, R. Belgiun, trib. (50 m.) of R. Meuse.

Ouse, or Great Ouse, R., Eng., flows (150 m.) to the Wash; also R. of Sussex, flows (30 m.) to Eng. Channel at New Haven; also R. of Yorks, formed by R.'s Swale and Ure, flows past York and Goole to Humber estuary (150 m.)

Outmonder, dist. Gt. Namaqualand, S. Africa.

Ovanden, industri. L. nr. Halifax, W. R. Yorks, Eng.; Over, L. on Ingoon Aveiro, Portugal, 2, m. S. of Oporto; grows onlons and other vegetables; fishery; p. 3,100.

Ovenden, industri. L. nr. Halifax, W. R. Yorks, Eng.; Over, L. nr. Middlewich, Chesh., Eng.; manuf.; p. Over Darwen.—(See Darwen.)

Overtos, r. nr. R. Dee, Filmtsh., N. Wales; one of the Flint bors.; p. 1,208.

Overton, t. nr. k. Dee, Filmtsh., N. Wales; one of the Flint bors.; p. 1,508. Overyasel, Dutch prov. borderg, en Zuyder Zee; area 1,201 sq. m.; p. 349,120; cap. Zwolle. Ovidiopol, t. and prt. sprt on R. Dnieper, govt. Kherson, Russ., p. 6,426. Oviedo, mantine prov. N. Spain; area 4,001 sq. m., p. 625,484; agr., fruit, sardine, and other fabories;

cap. O., £ on R. Nalon; gt. mkt.; p. 50, roll. Gothic cathedl.

cathedi.

Owatomas, & in Spelle co., Minnesots, U.S. A., p. 5,456.

Owatomas, & in Spelle co., Minnesots, U.S. A., p. 5,456.

Owatomas, C. on Suscientaria, Tioga co., N. York, U.S. A., p. 6,826.

Owansbarough, e. on Ohio R. (cap. Davies co.), Kentucky, U.S. A.; tobscco factories, whiskey distillentes; p. 16,246. [Can.; good tr. and manuf.; p. 1.,1820. Owen Sound, bort on Georgian B., Grey co., Ontarao, Owen Stanley, mtm. Brit. New Guines, alt. 13,205 ft. Owosso, e. on Shawassee R., Michigan, U.S. A.; timber tr.; p. 10,124.

Owyhee R. Nevada and Oregon, U.S. A., flow, (250 m.) Oxenhope, industri. & nr. Keighley, W.R. Yorks, Eng., p. 24,51.

p. 2.451.
Oxford, co. (S. Midland) Eng.; area 756 sq. m., p. 159,277; mainly agr.; cap. O., c. between R.'s Cherwell and Thames. Famous seat of learning; university and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th and many fine colleges; p. 53,049; also sml. t.'s in New Jersey, U.S.A., and Ashley co., New Zealand.

Oxley, 7, no. Delattie, Victoria, p. 3,180.
Oxus, 7, Asia.—See Arnu Daria.) [p. test.] xôo, 500.
Oya, 4, in W. Africa, cap, Yorulu ctry.; gt. tr, centre;
Oyater Bay, fav. cst. rezert, Long Isl., 50 in. E. New
York, U.S.A., res., p. 16,500. [p. 6,698.] York, U.S.A., res. p. 16,500.

Oystermouth, per: nr. Swanson, Glamorgansh., Wales, Ozien, e. nr. Sasari, Sardima; industri.; p. 9,60.

Ozor Roo, mfig. e. nr. Warsaw, Poland, p. 11,245.

Paar, R. Bavaria, trib. (70 m.) of R. Danube, Paardeburg, on Modder R., Orange R. Col., Brit S. Atrica; here Cronje and his Boer command

S. Africa; here Cronje and his Boer command surrendered to Lord Roberts, 27th Feb., 1900.

Paarl, L and summer 122. Cape Col., Brit. S. Africa, 38 in. E. of Capetown, p. 20,246.

Pabanalze, or Pabanance, mfug L in Petrikau govt., Russn. Poland; in forest hunting dist., p. 28,032.

Pabana, or Pubna, 262. Rubshab div., Bengal, Brit. India; area 1,839 sq. m., suffered from earthquake, 1897; rice and jute crops, p. 1,28,000; cap. P. t. en R. Ichhamati, nr. old bed of R. Ganges; gd. trade, p. 1, 200.

R. Ichhamati, ir. old bed of R. Ganges; gd. trade, p. 10,000.

Pacages, L. La Paz dep., Bolivia, manuf., p. 11,010.

Paccoo, f. ir. Trapani, Italy; industri, p. 1468.

Paccagea, f. ir. Trapani, Italy; industri, p. 1468.

Pacchao, f. ir. Trapani, Italy; industri, p. 1469.

Pachino, f. ir. Cape Passaro, Syracuse, Sicily; grape grows, basket-indg., and fishg., p. 10,046. [n. 18,480.]

Pachloua, f. ir. Hidalgo St., Mesico, ir. productive silver mines, p. 44,480.

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Pachloua, f. ir. Hidalgo St., Mesico, ir. productive distribution of the silver mines, p. 44,480.

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Pachloua, f. ir. productive mines, p. 10,100.

Pachloua, f. ir. productive mines in the p. 14,480.

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Pachloua, f. ir. p. p. 14,480.

Pachloua, f. ir. p. is 2,475 fathoms The greatest known depth is at a point between Hawan and the Philippines, where a point between Hawan and the Philippines, where a sounding of 5,265 fathouis, or about 6 miles, has been taken by a U.S.A. telegraph surveying ship. Padang, free spt. 6. Sumatra, cap. of Dutch gove. of W. cst. of the lsl., p. 16,400.
Paddington, parly, bev. of W. London, Eng.; readdiant industria, p. 142,576; also bor. N.S. W., suba. to Sudden in the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of th

Sydney, p. 26,000.

Sydney, p. 26,000.
Paderborn, t. m. Dorimund, Westphalia; printing and brewg, industr., cattle, corn and wool tr., mail. springs, cathed; p. 26,284.
Padermo, t. m. Monza, Milan, Italy; industri., p. 6,287.
Padrama, t. Gorakhpur dist., n. Burnley, Lancs., Eng., p. 13,637.
Padrama, t. Gorakhpur dist., N.W. Provs, india; gd. Padron, t. on R. Ulla. Corunna prov., Spain; graies, grapes, and fruit-growing dist., textile manst., indeed. p. 2,140.
Padetow, spt. t. on R. Camel, nr. Bodmin, Coruwal, Padua, fort. t. nr. Venice, in Padua prov., Italy; university and many fine bidgs., flourishg. industries, p. (commune) 98,000; (of prov.) over 500,000.

Paducab, c. on the Ohio R., McCracken co., Kentucky, ranusan, c. on the Onio K., McCracken co., Kentucky, U.S.A.; tobacco factories and large tr.; p. 24,100.

Padula, t. nr. Salermo, Italy; industri., p. 9,043.

Paesana, t. on R. Po, nr. Valuzzo, Italy; manuf.,

p. 8, 196

p. a. 190.

Pagan, rowshp, of Myingyan div., Upper Burma, at one time cap, of the Burmese Empire; many pagodas. [mills], macaroni factories; p. 19.3.202.

Pagani, r. nr. Salermo, Campana, Italy; cotton Paganica, industri, r. nr. Aquila, Italy; p. 6.149.

Pago, ist. Dalmatia, off Croatian est. in the Adriatic;

37 m. long; p. 6,504.

Pahang, one of the Federated States of the Malay
Penins., under Brit. influence; p. 118,000; cap. P. t., p. 7,460.

ignton, cst. 4. on Tor B., Devon, Engl.; p. 8,500. linesville, vil. on Grand R., Lake co., Ohio; Paig Pain ndustri, p. 5.245.
Paisley, port and mfg. f. on White Cart R.,
Renfrewsh, Scoti, anc. abbey; p. 84,477.
Pakhol, treaty M. in Kwangtung prov., China; dry

fish export; p. 25,000. [p. 6,400. Pakmam, s. at mth. of Menam R., Siam; gd. tr.; Paknam, 4. at mth. of Menam R., Siam; gd. tr.;
Pakokku, dist. Minbu div. Upper Burma; area
6,210 sq. m.; grows rice, grain, tobacco, sugar, etc.;
also exports petrol and teak; p. 290,200. Hdqrs.
6, P., on R. Irawadi; boat-buildg. centre;
p. 20,100. [Punjab, India; gd. tr.; p. 7,128.
Pakpattan, f. nr. R. Sutlej; Montgomery dist.,
Paka, f. on R. Danube, nr. Buda, Hungary; manuf.;
p. 2007.

Palseorystic S., ice-region extending for z,200 m.
Palseorystic S., ice-region extending for z,200 m.
round the N. Pole.
Palsfurgel, z. in Gerona prov., Spain; manuf.

round the N. Pole.

[D. 6,845]
Palafurgel, t. in Gerona prov., Spain; manut.;
Palagonia, t. nr. Catania, Sicily; industri.; p. 5,734.
Palais, t. on Belle isl. off Britany cst. France;
p. 4,826, t. on Belle isl. off Britany cst. France;
p. 4,826, t. on Fisa, Italy; manuf. and tr.; p.
Palaka, t. nr. Pisa, Italy; manuf. and tr.; p.
Palakcilu, t. Godavari dist., Madras, India; gd. tr.;

Palazonu, Godon Dagour div., Bengal, India; area 4,005 sq. m.; silk and lace exports; p. 60,680; much unprofitable jungle
Palamkotta, f. in Tinnevelly dist., Madras, India, on Tambrapami R. opp. Tinnevelly t.; official hdqrs.,

Tambrapami K. opp. Timevelly t.; official hodgis, gd. tr.; p. 16,980.

Palanka, 3 Danubian vilis, of Hungary (Neu, Alt, and Deutsch P.) 12 m. S.W of Bacs; industrl.; p. 9,140 collectively.

Palanpur, nat. x. Gujarat div., Bombay, India; area 3,177 80, m., has suffered severely from plague and famine: p. 22,024. P. t., the resid. of the Diwan (of Afghan descent), is a riwy. t. with 18,000 inhbs.

Palar R., S. India flowing (230 m.) from Mysore to the sea.

the sea

Palatinate, circle of Bavaria, W. of the R. Rhine, comprising Kniserlautern, Manuheim, Landau, and Speyer, all of which see. The c. (total p. 720,000) reaches to Baden, Alsace, Hesse, and Rhenish Pruss.

resches to Baden, Alsace, Hesse, and Rhenisd Pruss. Palatinate, Upper, croré of Havaria adjing. Bohemia, p. 550.840 (cap. Ratisbou, g.v.)
Palawan, ist of the Philippine grp., lying towards Borneo, area 4,576 a.i., p. 50,550.
Palazzo, f. nr. Melis, Fateniza prov., Italy; industri, Palazzo, Adriano, industri, f. nr. Coerleone, Palermo prov., Sicily, p. 6,843.
Palazzolo, f. nr. Noto, Syracuse prov., Sicily, on site of anc. Acrae; many antiquities, p. 12,010.
Palembang, f. on Musi R., Sumatra; cap. P. residey., p. 59,460. The Dutch res. of P. corresponds to the old kingdoms of P. and Jambi.
Palencia, inid. prov. Spain; partly fertile plain, partly wooded and mitnous, area 3,rep 50 ms. p. 158,460; cap. P., on R. Carrion, old local industries, barracks, p. 17,864. p. 17,864.

p. 19,504.

Paleaque, vil. in Chiapes st., Mexico, nr. extensive and magnif pelace and temple ruins, p. (dist.) 9,898.

Palermo, 9st. c. and cap. of former kingdom Sicily, on N cst. of isl.; many beautiful squares, pub. bldge, and promenades, extensive tr., fisheries and manuf. (sills, &c.), cathedral, Norman Saracenic, p. (commune) 342,000; (prov.¹ abt. 800,000.

Paleatine, Philistia, or The Holy Land, the anc.

country of the jews, southn. portn. of Syria betws. the Mediterranean and the Lebanon and Anti-Lebanon S. and N., and the Dead Sea and the Desert of Syria and Arabia W. and E.; ares 10,000 sq. m., p. (estimd.) 800,000; under Turkish rule, pres. Hebrew p. being only abt. 12,000. Christn. 80,000, the remainder of the inhabts. Mohammedan:

80,000, the remainder or the insurers, accomminded in chi.c.; perusalem (r.v.). Palestine, mftg. t. in Texas, U.S.A., cap. Anderson co.; agr. and forest regm., p. 10,040.
Palestrina, t. nr. Rome, Italy; the anc. Premeste, cathedral, p. 64,99.
Palghat, t. Malabar dist., Madras, Brit. India; busy

Palghat, I. Malabar dist., Madras, Brit. India; busy trade centre, p. 44,560.
Palitana, cap. P. st., Kathawar, India; a city of Jain temples, inhabited by priests and their sevrants.
Palk's Bay and Strait, gulf and chend, betwn. Ceylon and S. India, arm of the Indian O.
Pallanza, I. on Lago Maggiore, Pledmont, Italy; beautiful winter resort, p. 3,466.
Palma, fort. I. on the Spanish isl. of Majorca, largest of Batenra grp.; ine pub. bldgs., gt. tr. m wine, silk, &c., also impt. manuf., p. 68 oo; also t. nr. Nota, Caserta prov., Italy, p. 7,840; also t. nr Girgenti, Scily, industri, p. 13,240; also t. in Huelva Girgenti, Sicily, industri., p. 13,240; also t. in Huelva

Girgenti, Sicily, industri., p. 13,240; also t. in Huelva prov., S. Span, p. 5,416.

Palma, San Miguel de, one of the Canary isls., area 333 sq. m.; traversed by mtn. range, p. 42,120; cap. Santa Cruz de la Palma.

Palmas, Cape, prom. on coast Liberia, West Africa.

Palmas, Cape, prom. on coast Liberia, West Africa.

Palmas, Las, c. on N. est. Grand Canary, Canary Iv'es: cathedral, good shipping and local tr.; p. 54,488.

Palmella, d. nr. Lisbon, Portugal; industri.; p. 6,864.

Palmer, textile mftg. f. Hampden co., Mass., U.S.A.;

Palmer, textile infig. L. Hampden co., Mass., U.S.A.; p. 8,433.

p. 8,433.

Palmerston, township ir. Dunedin, New Zealand, p. (dist.), 1,805; also t. (North P.) nr. Wellington, New Zealand, p. (dist.), 1,805; also t. (North P.) nr. Wellington, New Zealand, p. 1,622; also t. co. Perth, Ontario, Canada, p. 1,724.

Palmi, L. in Reggio prov., Calabria, Italy; olive ou, Palmyra (anc. Tadmor), L. (runned) in Syrian desert, 120 in. N.E. of Damascus, extensive remains; also vil. Wayne co., New York, U.S.A., p. 3,648; also t. Marion co., Missouri, U.S.A., p. 4,886; also lagoon islet of Polynesia (Brit.) N.W. of Christmas Isld.

Palni, L. Madura dist., Madras, India; good fr.; p. 12,120.

[Peccan, India; highest peak 7,050 ft. Palni Hills, range between E. and W. Chaits, S. Palo, c. nr. Barf, Iraly industri.; p. 11,226.

Palo Alto, L. in Santa Clara co., California, U.S.A., p. 2,246. Here was fought first battle of war between Mexico and U.S.A., in 1866.

2.26. Here was fought first battle of war between Mexico and U.S. A. in 1846.
Palombara, t. nr. Tivoli, Central Italy; good tr.; p. Palos, 59t. on Rio Tinto, Huelva prov., S. Spain, p. 1,620; Columbus voyaged hence in 1852.
Palota, t. nr. Veszprim, Hungary; industri; p. 5.84.
Palotae, t. of Idaho and Washington, U.S.A., trib. (220 m. of Snake R.).
Palteh, or Tambro, remarkable ring-shaped lake of Tibet (nearly 50 m. long), 50 m. S.W. of Lhavsa.
Palwal, tradnor t. in Gurgan dist., Punjab, India, p.

Tibet (nearly 30 m. long), 50 m. S.W. of Lhassa. Palwal, trading t in Gurgaon dist., Punjab, India, p

Pambula, t. In Auckland co., N.S.W., ur. the Pacific

coast, p 2,268.

Pamiers, t. on R. Ariège, nr. Foix, France; iron

Pamiers, 2. on R. Ariège, nr. Foix, France; iron manuf.; p. 10, 102.

Pamiers, Festa Féderau from which the prin. mtn. chams of Asia diverge, alt. 13,000 ft. Often called "the roof of the world," it lies on the borders of the Russian, Chinese, and Brit. Indian empires, Nr. E. of Aighanstan, W. of East Turkestan, and S. of a great portion of Asiatic Russia.

[Carolina, 75 m. by emplants of Asiatic Russia.

Pampa, 1err. in centre of Argentina; area 36,300 sq. m., p. 36,000; stock-rearing; cap. General Acha.

Pampas, great open grassy Fásins in S. Amer., atretching from the Arides to the Atlantic, and from Tierre del Fuego to El Gran Chaco; Pampas del Sacramento is the specific name of the plains of Peru traversed by the Ucayale R.

Pampeluna, or Pamplona, c. on the R. Arga, N. Spain, nr. the French frontier; was cap. of the anc.

kingdom of Navarre Fortified, cathedral; p. 32,000. Thrving textile industries- [p. 10,420. Pamplona, f in Santander st., Colombia; good trade; Pana, c. Christian co., Illinois, U.S.A., in colly. dist,

p. 5.840. Panama, t. in dep. same name, Colombia, S. America, at the upper end of the Pauma G., and 3 m. from the Pacific terminus of the Panama railway and canal works and dock; gd export tr. in lindes, pearl-shells, etc.; p. 35.000. The length of the canal works across the Isthmus of P. from P. to Aspinwall or Colon is 40 m. The Isthmus (formerly called the I. of Parichi, the connecting link of N and S. America. of Darien) is the connecting link of N. and S. America, and the narrowest land neck between the Atlantic

and Pacific; p. of dept. 420,000.

Panaro, R. of Italy, trib. (75 m.) of R. Po.

Panay, 65. of the Philippine grp., S.E. of Mindoro; area 4,708 sq. m., contains Iloilo and antique provs,

area 4,708 sq. m., contains stone and sample total p. over 1,000,000.

Panch Mahals, dest. Gujarat div., Bombay, India; area 1,613 sq. m.; grows rice and poor gram; manuf., lacquered ware and toys; p. 261,500 (decreasing); suffered very severely from famine 1899-1900; administ, hdqrs., Godhra.

Pancsova, I., fort., on R. Tennes, Hungary, nr. Belgrade; manuf., p. 18,240. Here the Austrians defeated the Turks in 1739, and the Austrians the Hungargain 1840.

defeated the Turks in 1739, and the Austrians the Hungarnans in 1840.

Pandharpur, I. in Sholapur dist., Bombay, India, on R. Bhima: Teunile of Vishnu, the most frequented place of pilgrimage in the Deccan, p. 21,710.

Panhandle, popular name for projecting dists. N. of W. Virgima, N. W. Texas, and Idalio, U.S.A.

Panipat, I. Karnal dist., Punjab, Brit. India, nr. old bank of R. Junna; it. and military centre, p. 28,622.

Panissière, I. nr. Montbrison, Loire dep., France; industr., p. 8860.

industri, p. 5.860.

Panna, nat. st. Bundelkhand agency. Centl. India; area 2,568 sq. m., had fanous diamond mines, now unprofitable, p. 240,564; cap. P., t. nr. Banda, p. 14.750.

Panteg, or Panteague, par. in iron and colly. dist., Monmouthsh., Eng., nr. Pontypoul, p. 7,864. Pantellaria, volcanic isl. in Mediterranean; belongs to

Pro, on N.W. cst., p. 3,478.

Pantin, t. of S. Denis, dep. Seine, just outside the fortnins, of Pans, France; industri. dist, p. 33,468.

Panton, t. in prov. Lugo. Spain; matnous, agr., and

wine-growg, dist., p. 13, 108.

Panwel, t. in Thana dist., Bombay, India; gd. tr.,

Paola, cst. t. nr. Cosenza, Italy; oil and wine tr.,

p. 9,149; also mftg. c., Miani co., Kansas, U.S.A.;

p. 4,216,

P. 4.216.

Pao-ting, one of the chief cs. of Pe-chi-li prov., China, on the R. Yung-ting; gt. tr., p. 170,000.

Pápa, mftg. f. in Veszprém co., Hungary, nr. Fresburg, p. 16,085.

Papasquiaro, f. Durango st., Mexico; impt. tr., Papenburg, f. nr. R. Ems, Hanover, Pruss.; good canal tr. and shipbldg. industry, p. 8,114.

Papielt, French f. on cst. of Otaheite (or Taheiti) isl., in the Society grp., p. 3,688.

Papa of Jura, grp. of three mins. on Jura Isl., Scotl., highest pk. 2,566 ft.

Papua. (See New Guinea).

Par. 5t. nr. St. Austell, Cornwall, Eng., p. 1.684.

Par, spt. nr. St. Austell, Cornwall, Eng., p. 1,584, Para, estuary of Rs. Amazon and Tocantins, N.E. Brazil, 200 m. long, and 40 m. wide at entrce. to

Para, or Grão Para, prov. Brazil, traversed by the Lower Amizon R., and borderg. on Guiana, and the Atlantic, area 443,000 sq. m., p. 450,600; also a spt. on the Para, cap. of prov., centre of river tr. of the Asnazon system; exports rubber, balsam, hides, etc.,

Amazon system; expoits subver, descending p. 64,860.

Parablago, mkt. f. nr. Milan, Lombardy, Italy, p. Paradas, industri. f. nr. Seville, Spain, p. 5,748.

Paraguay, R. S. America, flows 1,600 m. from Brazil to the Parana, nr. Corrientes, forming pt. of E. bdy. of Bolivia, and W. bdy. of Paraguay, repuis S. America, lying mainly betwn. the Paraguay and Parana R.'s and bounded by the Arometine. Bolivia. and Brazil, area 174,204 5q. m., p. Argentine, Bolivia, and Brazil, area 174,204 5q. m., p.

650,000 (inclidg. 80,000 Indians of the Chaco). Climate tropical, vegetatn. luxuriant; industries: fruit growing, cattle-rearing, prepn. of Paraguayan tea, tobaccoplanting, timber-cutting, etc. Cap. Asuncion (e.v.). Parahiba, R. Brazil (200 m.) flows to Atlantic in State of P., area 28,854 sq. m., p. 300,550. Cap. P., t. nr. mth. of R. P., p. 46,260; also R. rising in São Paulo st., Brazil, and flowing 658 m. betwn. Rio de Janeiro and Minas Geraes to the Atlantic N.E. of Rio de J.; Parahitinga is a t. of São Paulo on the latter R., p. 6,210. [ft. rand industries, p. 32,460. Paramaribo, 591. on R. Surinam, Dutch Guiana, active Paramythia, i. nr. Yanina, Turkey, p. 5,424. Parana, R. S. America (2,00 m.) flows from Brazil through Paraugay and Argentina to Join the Uruguay and form the est. of La Plata, Also prov. Brazil, betwn. R. P. and the Atlantic, area 85,453 sq. m., p. 65,000. Cap. Curitho: also t. on R. P. in Argentina, Entre Rios st., p. 26,840, active tr. Paranagua, 541. Parana prov., Brazil, exports Paraguay toa, etc., p. 8. Parana prov., Brazil, exports Paraguay toa, etc., p. 8. Parana prov., Brazil, exports Paraguay toa, etc., p. 8. Parana prov., Brazil, exports Paraguay

tea, etc., p. 8,640.

tea, etc., p. 8,040.

Paranahyba, R. Brazil, prov. Goyaz, flows 500 m. W. to jom the Curamba; both affluents of the Parana; also another R. of Brazil, flowing (830 m.) to the Atlantic, at the port of San Luis de Paranahyba, in prov. Piauly, p. of t. 15,450.

Parapara, L. in Guarico St., Venezuela, nr. Ortiz, p. Parapara, L. in Guarico st., venezuela, nr. Ortiz, p. Parapara, L. in Guarico st., venezuela, nr. Ortiz, p.

Parati, spt. Rio Janeiro prov., Brazil; good tr., p.

12,865

602

10,865

Parchim, I. on R. Elbe, Mccklenburg Schwerin, Germy., minl. spring: birthpl. of Field-Marshal Molke, p. 10,500. [Igratz: old chateau, p. 19,518. Pardubitz, I. on R. Elbe, B. shema, Austria, nr. Köng-Parecha, or Paro, cap. Paros, id. of the Cyclades, in the Agean S., p. 2,480. Parenzo, cst. t. nr. Rowigno, Istria, Austria, fishg. and shipbdg., mulberry plantatins., p. 10,087. Parga, fort. cst. I. Epirus, Turkey, nr. Arta, p. 4,810. Paria Kimed, J. Gangam dist. Madras, Brit. India, res. of raja, college, gd. tr. p. 21,849. Parima, Sierra, msn. range, S. Venezuela, highest pt., abt. 10,000 ft. Paris, G. cap. of French Repub. on R. Seine, enclosed

pt., abt. 10,000 ft.

Parfs, C., cap, of French Repub. on R. Seine, enclosed within fortificins. 22 m. long and includg, an area of 30 sq. m. Contains some of the finest bldgs, in the world, and has many splendid boulevards, open spaces, and monuments, while for art, literary and scientific collections its renown is universal. Its industries "wealth and comparts are snormasts." scientific collections its renown is universal. Its in-dustries, wealth and commerce are enormous; p. 2,000,000. In 1871 captured by the German Army, after a 4½ months' siege, since which period the fortificms, have been rendered the most extensive in existence

existence.

Paris, c. in cotton and grain dist., Lamar co., Texas, U.S.A., p. 9,840, also c. in agr. regn., Edgar co., Illinois, U.S.A., p. 6,646, also c. cap. Bourhon co., Kentucky, U.S.A., p. 5,148, also t. on Grand R., Brant co., Ontano, Can., p. 3,540.

Paris Hill, t. cap., Oxford co., Maine, U.S.A., p. Parkersburg, c. on Oho R., Wood co., W. Virginia, U.S.A., manuf. centre in oil and nat. gas regn., ironworks D. 12,460.

works, p. 13,460.

Parkes, gold-ming f. Billabong dist., N.S.W., p. 3,894.

Parkeste. (See Weston and Parkeste.) [Eng. Park Gate, industr. sub of Rotherham, W. R. Yorks. Parkhead, E. sub. Glasgow, Scotl., residl. and industl., p. 9,428

industl., p. 9,428
Park Range, chn. of the Rocky mtns., Colorado,
U.S.A., mt. Lincoln, alt. 14,297 ft.
Parma, prov. Emilia, Italy, area, 7,250 sq. m., cap.
Parma, b. between the Apennines and the R. Fo,
flourishg, tr., felt hat and other factomes, university,
cathedi., and other fine bdgs., p. 51,260.
Parnassus, mtm. ridge in Greece, 83 m. N.W. of
Athens, nr. the ancient Dephi, the modern Liakhura,
highest summit, Licorela, 8,068 ft.
Paros, 1st. in Grecian Arch., 5 m. W. of Naxos, area
63 sq. m., p. 9,840, cap. Para (g.w.)
Parramatta, t. on P. R., Cumberland co., N.S.W.,
noted for orchds. and orangeries, oldest t. in
Australia, p. 33,084. [p. 16,500.

Australia, p. 13.684. [p. 16,500. Parras, t. nr. Maplini, Durango st., Mexico, gd. tr., Parret, R. Dorset and Somerset, Eng., flows (35 m.) to Bristol Channel, nr. Bridgwater.

Parry Cape, on Arctic cst., N. America, Parry Isls., grp. in Arctic Oc., N. of Melville Sound, includg. Melville Isl., Bathurst Isl., Prince Parrick Isl., &c., Parry Sound, t. on Georguan B., Ontario, Can. p. 2008.

p. 2,078, p. 2,078, p. 2,078, p. 2,078, p. 2,078, p. 2,078, p. 3,142. Parsonstown, King's co., Ireld.—15ee Birt., p. 8,142. Partabgarn or Pratabgarh, dist. Fyzibad div., Oudh, Brit. India, area 1,439 sq. m., grows suyar, hemp, opum, and indigo. p. 894,260, admin. hdqrs.,

Partabgarh or Pertabgarh, nat. st. in Rajputana Partabgarh or Pertabgarh, nat. st. in Rajputana Agency, India, area 95 95, m., p., (decrease), 25,000, cap., P., t. on rwy., p. 1,300. [Talermo, p. 14,800, Partanna, industri. t. in Trapan prov., Sicily, nr. Parthenny, t. nr. Niort, Deux-Sevres, France, on promonty, overlooke, the Thouet, anct. ramparts and interests, old bdgs., woollen indust., p. 7,010. Particle, mfig. sub of Glasyow, Scotl., p. 66,818, has flourishg. Clydeside simp-bldg yards. [22,428, Partinico, mfig. and tr. t. nr. Paiermo, Sicily, p. Parton, 1st. adding. Whiteliaven, Cumberland, Eng.;

p. 1,624. [tr.; p. 10,050. Parvatipur, t. Vizagapatanı dist., Madras, İndia; gd. Parys Mtn., hill in N.E. Anglesey Wales; copper mines.

Pasadena, c. Los Angeles co., California, U.S.A., in fruit-growg. regn. base of San Gabriel Mtns.: p. [hqueur manuf.; p. 3,484. 30,281.

pasages, spt. Guipuzcoa prov. Spain; wine and Pasages, spt. Guipuzcoa prov. Spain; wine and Pasagani, t. in Suciava dist., Moldavia, Roumania; industri. p. 8,425.
Pasco, or Cerro de Pasco, t. in famous silver-ming, dest

dist., Junin dep., Peru; situated 14,280 ft. above sea-level; p. 16,120.

Pas-de-Calais, French name of Strait of Dover; also mantime dept., N. Fiance; area 2,606 sq. m.; agr. and coal-field dists; p. (alit.) 1,000,000; cap. Arras. Pasewalk, old mftg. f. iir. Stettin, Pomerania, Pruss.; p. 10,814.

Pasig, z. on P. R. Luzon, Philippine Isis.; commerci.

centre of the lake regn.; p. 23,648.

Pasitano, est. t, industri, in: Salerno, Italy; p 5,873.

Pasman, tst. in Zara, in the Adriatic, belonging to Dalmatia, Austria (15 m. long, 31 m. wide); wine,

oll, etc.; p. 10,415.

Passage, West, 5/6. on Cork Harbr., Ireld.; p. 2,618.

Passage, West, 5/6. on Cork Harbr., Ireld.; p. 2,618.

Passaic, c. on P. R., P. co., New Jersey, U.S.A.; thryg, manufs.; p. 54,770. Passaic R. flows 100 m. to Newark B.

Passamaquoddy Bay, arm of toe Atlantic (15 m. long), betwn. New Brunswick and Maine, U.S A. Parsarowitz, mitg. t. nr. R. Danube, Servia, nr.

Beigrade; p. 12,463.

Passaruan, t. in. Dutch residey. of P., Java; inpt. tr.;

Passaru, d. on R. Danube, Lower Bavaria; cathedi, j.

fortified; p. 18,528. [19,460.

Passy, W. sub of Paris, E of the Bois de Boulogne, Pasto, t. in Cauca st., Colombia, on flank of Pasto

Pasto, f. in Cauca St., Colombia, on naine of ratio volcano; p. 11.240.

Paszto, f. on R. Zugyya, Hungary, nr. Pesth; industri, Patagonia, southnmost, form, of America; inclig all of Argentina St. of the Rio Negro, and all of Chili S. of Chiloe prov. Area (exclud. Tierra del Finego) 235,000 sq. m., abt. one fifth of which is Chilian terr. The p. is, sparse, and includes allt. 20,000 wandering The p. is sparse, and meludes able 50,000 wandering Indians of tall stature. Along the csts, are flourished civilised settlements. The Andes ranges, stretching 1,000 m, from S. to N. of Patagonia, divide the Chillian str. on the W. from the Argentine ports, on

the E. Patan, f. in Gu'arat, Baroda st., India; p. 34,620; impt.

tr, : also t, in Nepal, nr. Khatmandu : p. 37,420. Patani, nat. st. in Malay penin ... trib. to Siam ; p.

Patani, nat. st. in Malay penins, trib. to Siam; p. (abt.) roo,coo; cap p., t. on E. c.t., p. 2,800.

Patapaco, R., Maryland, U.S.A., flows 80 m. to Chesapeake B in Baltimore. [N. isl.); p. 1,460.

Patea, l. nr. New Plymouth, N. Zealand (on S.W. cst. Pateley Bridge, inkt. l. on R. Nidd, W. R. Yorks, Eng.; p. 7,753.

Paterno, c. Catania, Sicily, at ft. of Mt. Etna; p. (communal) 18,600; on site of anc. Hybla; gd. tr.

Paterson, c. New Jersey, U. S.A., on Passaic R., 17 m.

N.W. New York; great mftg. centre, called "the Lyons of America," because of its extensive silk industry; p. 125,002 also name of t. in Durham co., N.S.W.; p. 26,48.
Patials, native st. within the Punjab, India, S. of the Sutlej R. (sometimes called Putnala); area 5,472 sq. m.; p. 1,607,659. Cap. P., t. on riwy, from Bhatinda to Rajpura; p. 56,428.
Patkai, min. range Indo-Chinese penins, betwn. Assam and Burma; Chaukan (or Lugayak) alt. 0,000 ft.

Assard and Johns, Chabban (or Engager) and Joseph (St. 20 m. S. of Samos, W est. Asia Minor, one of the Sporades, belongs to Turkey, monastery to St. John the Divine.

Patna, siv. (area 23,675 sq. m., p. 16,000,000), and dist, of same (area 2,076 sq. m., p. 1,750,000) of Behar prov., Bengal, india; optum is extensively grown, and prepared for market in the cap. c. of P., on R. Ganges, a great industri. and commel. centre with a p. of 135,000; the c. stietches for 9 m. along the R., and the mil. cantonmt. of Dinapur joins it on the W. Patna, feudatory st. in Cichattisgarh div., Central

provs, India, area 2,300 sq. m., 277,560; this st. was formerly under Brtt, administratin, and the ruling cht is a raiput of high lineage.

Patras, fortid, sph. on G. of P. W. cst Greece, 70 m. from Cornth, citadel and castle, gt. tr. in currants,

Patras, fortíl. 59. on G. of P., W. cst Greece, 70 m. from Cornth, citadel and castle, gt. tr. in currants, raisms, figs, olives, wine, skins, etc., p. 40,000, Patricroft, industri. 4. nr. Manchester, Lancs, Erg., p. 12,140. [oil manuf., tunny fishg., p. 10,406, Patti, t. Messina prov., Suily, cathedh, silk and olive-Paturage, t. nr. Mons, Belgium, industri. p. 12,424. Pau., t. and health rer. on Gave de Pau, Basses-Pyrénées dep., France, p. 21,465; the R. Gave de Pau flows rog in to join R. Adour, nr. Bayonne. Pauillac, t. on R. Gronde, nr. Bordeaux, France, Médoc wine tr., p. 52,48. [6,014, Pauliton, par. in. Bath, Somerset, Eng., p. 2,428. Pauliton, par. in. Bath, Somerset, Eng., p. 2,428. Pauliton, par. in. Bath, Somerset, Eng., p. 2,428. Pavia, prov. Lombardy, Italy, area 1,290 sq. mi, p. 511,000; cap P. c. on the Ticmo, nr. Milan, "the city of a hundhed towers," fine cathedl, bashlica, and Visconti palate, also university and Carthusian monastery, unitary engineerg, wks., and many manufs, p. 36,500.

Pavlogar, f. in. prov. Semipalatinsk, Asiatic Russ., on R. Irtish, tr. centre for the Kirghiz cattle-lirecders, p. 8,580. [Voltchya, manuf, and tr., p. 16,210. Pavlograd, f. in. Yekaterinoslav govt. Nim-Novgorod, Russ., cuttlery wks., p. 14,875.

Paviory, nidustri. Ł. on Oka K., govt. Nijm. Novgorod, Russ, cutlery wks. p. 14.485.
Pavlovsky: Posad, Ł. on Kly4.ma R., Moscow govt., Russ., woolleft minuti., p. 12.624.
Pawtucket, c. on P. R., Providence co., Rhode Isl., U. S.A., cotton manuf., foundries, etc., p. 51.622.
Paxo, or Paxos, one of the Ionan 18.61., nr. Corfu, Greece, ohve oil, p. 5,810.
Paxos, one of the Ionan 18.61., p. 4,110.
Paxos, one of the Ionan 18.61., p. 4,110.
Paysandu, niftg. c. on Rio Uruguay, Uruguay, tomharded by the Brazhaus 1865, p. 14,123.
Payson, mdustri. Ł. nr. Mt. Nebo, Utah, U.S.A., p. 12,201 formerly called South Danvers.
Peabody, leather niftg. Ł. Essex c., Mass., U.S.A., p. 12,201 formerly called South Danvers.
Peabody Bay, arm of Smith Sound, N.W. cx. Greenland. flows (1,000 m) to L. Athabasca.
Peace, R., rises, in Rocky Mtns. Brit. Columbia, and Peak of Derbyshire, nintous, der. mid. Eng., extendigfrom Chesterfield to Buxton, and Ashi ourne to Glossop, highest pt. Kimderscout, alt. 2,086 ft.
Pearl, R., Mississipp, U.S.A., flows (400 m) to G. of Mexico, name also given to Canton R., S. China.
Pearl Isla, sml. grp. in B. of Panama, belong, to

Pearl Isls., sml. gry. in B. of Panama, belong. to Colombia.

Pecchial, 2 nr. Pisa, Tuscany, Italy, industri., p. 7,416.
Pecchi-li, prov. N. China, adjing. Mongolia and the G. of Pe-chi-li, area 58,949 st. nu., p. 28,000,000; the G. of P. is an arm of the Yellow S., and the Strak of

P. connects the two.

Peckham a S. E. sub. of London, Eng., industrl. and residtl, included in bor. of Camberwell.

Pecos, R., of New Mexico and Texas, U.S. A. (764 m.), trib. of Ro Grande.

Pecs, mftg. t. in Baranya prov., Hungary, famous for wine, porcelain, and organ manuf., p. 48,000.

Peddapur, t. Godavari dist., Madras, India; gd. tr., p. 17,140.

Peddie, t. in Cape Colony, Brit. S. Africa, in P. div., Pedee, c. Great Pedee, R. N. and S. Carolina, U.S.A., flows to Winyah B., nr. Georgetown; navigable 150 m. Pedrotalizaga, mss. in S. of Ceylon, alt. 8.35 fl. Peebles, co. S. of Scotl. betwn. Lanark and Midlothan, Selkirk and Dumfries; area 354 sq. m., mainly agr., but mntous., p. 15,358; cap. Peebles, health rest. on R. Tweed, p. 5.554.

R. Tweed, p. 5.554.

Peekskill, f. Westchester co., New York, U.S.A., on Hudson R.; annual campg. grd. of the National

Hudson R.; annual campg. grd. of the National Guard, p. ro.500.

Peel, fishery t. on W. est. Isle of Man, p. 4,560; Peel R., N.S.W., trib. (with the Namoi, 600 m. long) of R. Darling; also R. Canada (300 m.) joins the Mackenze R. at the delta. [Saxony, p. 5,010.

Pegal, vil. ar. Voltri, on G. of Genoa, Italy, p. 4,894.

Pegalitz, handstream of the R. Regnitz, Bavara, flows 60 m. to Fürth; also name of a sml, industri. t. nr. source of R. P., p. 1842.

66 m. to Fürht; also name of a smi, inquistri. t. nr. source of R. P., p. 1,842.
Pego, t. in prov. Alicante, Spain, nr. Valencia, mítg., Pegu, str., of Lower Burma, includg. Rangoon and neighbg, dists.; area 13,063 sq. m., gt. rice crops, p. nearly 2,000,000; cap. P., t. on P. R., p. 13,140.
Pel-ho, R. in prov. Pe-chi-li, China (300 m.), unites with R. Yun-ho at Tientsin and flows to G. of Pe-chi-li.

- The Reacles Pursen Siliesia: mftg., p. 2,834.

Peilau, f. nr. Breslau Prussn, Silesia; mftg., p. 7,835. Peine f. Hanover, Prussn, Brunswick; breweries,

cartle mkt., p. 18,246.
Peipus, L. Westn. Russ. (length 80 m. by 32 m.) dis-

Pelpus, L. Westn. Russ. (length 80 m. by 32 m.) discharges by R. Narova to G. of Finland.
Pekin, c. in Tazewell co., Illinois, U.S.A.; gt. grain mkt. in agr., and coalfield regm., p. 10,018.
Peking, or Pekin, c. cap. of Chinese Empire lying in the plain betwn. the Pei-ho and Hun-ho R.'s, and 6 m. S.E. of the Great Wall; an immense c. 25 m. in circumfee, divided betwn. Chinese and Tattar go m. S.E. of the Great wait; an timmense c. 25 min circumstee, divided betwn. Chinese and Tartar communities, and having a p. est. at abt 7,000,000; prin. bldgs, the impreial Palace in the "Purple Forbidden c.," Bell Tower and Drum Tower in the Tartar c., and "Temple of Heaven," in the Chinese c.; suffered severoly in Boxer rising, and captul. by allied Brit, and American forces, Aug. 14, 1900.
Pelago, £. (industri.) nr. Florence, Tuscany, Italy, p. 11, 106 (communal).
Pelew Islas, Pacific grp. W. of the Carolines, Germin. (See Micronesia.)
Peling, 1st. of E. cst. Celebes (50 m. by so m.): also isl. off W. cst. Corea, at the Yellow Sea; also range of hills S. of the Hoang-ho Valley, N., W. China.
Pelion, or Zagora, Celebrated min. S. of Mt. Ossa, Thessaly, Greece, alt. 5,210 ft.
Pella, Industri. £. Marlon co., Iowa, U.S.A., p. 3048; also name of missn. stn. Bushmanland on Drange R., Cape Colony, Brit. S. Affrac. [on N. cst. So. Isl. Pelorus Sound, extends as m. ind. from Cook Strait, Pelvoux, min. France, betwn. Iskre and Haures-Alpes alt. 13,445 ft.

alt. 13,442 ft.

emba. ssl. (45 m. long, p. 10,000) off Zanzibar cst.,

Brit. E. Africa; also t. on L. Moeru, Equatorial

Africa, p. 8,480; also t. in Dutch New Guinea.

Pemberton, t. adjoing. Wigan, S.W. Lancs, Eng.; thriving manuf., p. 35,640. Pembroke, maritime co. S. Wales, adjng. Cardigan and

Pembroke, maritime 20. S. Wales, adjng. Cardigan and Carmarthen, area 617 sq. m. hilly, mainly agr., with fisheries and mitg. industries, p. 80,050; cap. Pembroke, dockyd. t. on creek of Milford Haven, p. 35,73. The Fembroke dist. of Parly bors. comprises P., Milford, Tenby, Haverforders, Wiston, Narberth, and Fishguard. P. is also name of a t. (mitg.) in Ontario, Canada, on the Alumette L., p. 5,95; and of two t. is in the U.S.A., viz. P. in Washington, co. Maine, nr. Eastport, p. 5,04; and P. on the R. Merrimac, New Hampshire, p. 5,245. Pembroke, town. kip N. of Dublin c., Ireld., p. 99,260. Pena, A. nr. Albagh, Kolaba dist., Bombgy, India; gd. tr.; p. 8,86.
Penaflel, industri. L. nr. Oporto, prov. Minho, Portugal, p. 5,20; also mitg. t. in Valladolid prov., Spain, p. 4,548.
Penang, or Prince of Wales Isl., Brit. possn. Straits Sottlements off W. Cst. Malay Pen.; area roy 5q. m.,

Settlements off W. cst. Malay Pen. : area roy sq. m.,

p. (includg. Wellesley prov., opp., and the Dinding ial.) sp., ooc; cap. Georgetown.
Pen Argyl, bor. Penn., U.S.A., industri. centre on border Northampton co., p. 4,068. [Wales, p. 15,488. Pennarth, spt. 2. at mth. of Taif R., Giamorgans., Penas de San Pedro, f. nr. Albicacte; industri.; p. 4,246.
[1893 H. Pendle Hill, nr. Clitheroe, N.E. Lancash., Eng., alt. Pendleton, industri. c. adjoing, Manchester, Lancash., Eng., and N.W.. D. 64,286.

Eng., on N.W., p. 6., 366. Sco. Alagoas prov., Brazili, Eng., on N.W., p. 6., 366. Sco. Alagoas prov., Brazili, Penge, S.E. sub. of London, Eng.; Crystal Palace park partly in the hamlet; residential; p. 22,331. Peniche; for t. on Atlantic est., Portugal, nr. Lisbon,

p. 3,148. [2,736.] Penicuik, L. on N. Esk R., nr. Edinburgh, Scotl., p. Penig, L. on R. Mulde, nr. Leipsic, Saxony; manul.;

p. 7.125.

Penjatone, mkr t on R Don, W.R. Yorks, Eng., p. Penjadeh, or Penhideh, Russn. t. in Centrl. Asia, nr the Afghan border, on R. Murghab, N. of Horat; captd. in 1885 by Komaro I.

Penkridge, industrl. t. on R. Penk, Staffordsh., Eng., 6 m. S. Stafford; p. 3,427.

Penmearmawr, t. and cst. wat. pl. nr. Conway, Carnarvonshire, Wales, p. 4,642.

Penner, or Pennair, K. of Mysore and Madras, India, flows 358 m. to sea nr. Nellore; also another R. flowing S of this (245 m.) to Cudaalore on the Coromandel cst. [3,408.

mandel cst.

Pennsylvania, one of N. Atlantic states. U.S.A., includes the terr. colonised by William Penn in 1682; total area 45,213 sq. m.; mtnous., and rich in cod, iron, and petrol; very ertensive manuf; p. nearly 7,500,000; cap. Harrisbury; princ, cities, Philadelphia and Purchy (ell of bidge) and Pittsburg (all of which see). Penn, is frequently spoken of as "the Keystone State."
Penn Yann, A at ft. of Keuka I..., New York, U.S.A.;

renn yann, t. at n. or Keuka L., New York, U.S.A.; grape-growg, dist.; p. 5,040. [an arm of the Atlantic-Penobecot, R. Maine, U.S.A., flows 275 m. into P. Bay, Penon de Valez, Spainsh fort, and settlement in Fez, Morocco, 75 m S E. of Ceuta. [Carnaryonsh., Wales, Penriyn, extensive slate-quarrying dist. nr. Bethesda, Penrith, mkt. t. Cumberland, Eng., nr. Carlisle; ruinod

castle: p 8,973 Truro div., Cornwall, Eng., on Falmouth Harbr, grante quarries, p 3,092.
Pensacola, sp. on P. Bay, Florida, U.S.A., exports,

Pensacola, 59t. on P. Bay, Pionda, U.S.A., exports, timber, fruit, cotton, p. 22,982.

Pentland Pirth, 5rant betwn. Orkney and the Calthness cst., Scotl. P. Hills, range running S.W. through the counties of Lanark, Edinburgh and Peebles, Scotl. highest pk. abt. 1,000 ft.: P. Skerries, grp. of small isles in P. Firth. a with lighthouses.

Pentonville, an ecclesiastical dist. of N. London, p. 10,120, industri, and residenti.

Penza, gov. F. Ceuti. Russ., S. of Nijni-Novgorod, area 14,997 sq. m., mainly agr., dairying, and stock-raisg., p. 1,605,000; cap. P., t., on R. P., gt. tr. in grain, p. 66,240.

Penzance, spt. and bor. Cornwall, Eng., at hd. of Mount's Bay pilchard fishg., exports, copper, tin, Mounts Bay Picchard nish., exports, copper, tin, and china clay, p. 13,468.

Penzing, Industri. vii. nr. Vienna. Austria, subn. to Peoria, c. on Illinois R.. Peoria co., Ill., U.S.A., a great grain mkt. of the Mississippi valley, p. 66,275.

Pepin Lake, (28 m. long, 3 m. wide), an extens. of the R. Mississippi in Wisconsin and Minnesota, U.S.A.

Perparell, c. in Middlesex co., Mas, U.S.A., p. 4,120, Pera, swb. Constantinople, Turkey, N. of the Goldeu Horn.

Horn. Perak, one of the Federated Malay States under Brit. Perak, one of the reduction malay states under srit.

administratin. area 10,000 sq. m., c.ft, product tin,

p. 348,714. [Northumbld, Eng., p. 8,125,

Percy, or Percy Main, ecclesl. "srt. on R. Tyne,

Perekop, Isthmus of, connects Crimea with S. Russ.

proper, and exparates Sea of Azov from Black Sea;

p., t. in Russn. govt. Taurida, on the isth., p. 4.830.

Perealavi-Zalieski, mftg. t. nr. Vladimir. Russ., p.

808

8,948.

Pereyaslavi, mfig. and fr. f. in Poltava govt., Rubs., Pergamoa, anc. name Bergama, or Bergamo; c. in Asia Minor on R. Caicus, 50 in. N. of Smyrna, impt. architectural antiquities.

Pergola, f. nr. Urbina, in the Marches, Italy, on R. Cesano, industri., p. 10,190.
Periakulam, f. nr. Madura, Madras, India, gd. tr., p. Périgueux, f. on R. Isle, Dordogne, France, the anc. Vesuna, cathedl., gd. tr., noted for it. "Périgord pies" of partridges and truffles, and for fine young

pigs, p. 30,740.
Perim, Brit. frl. in Strait of Babelmandeb. (See Aden.)
Perleberg, indust. f on the Stepenitz, Brandenberg,

Pruss., p. 9.428.

Perm, govt. of E. Russia, in the Ural Mtns.; area 128,217
sq. m., great mineral wealth, impt. agr, and stockkeeping (including bees) industries; p. 3.250,000,
chiefly peasantry and rural dwellers. Cap. P. t. on
R. Kama i manuf.; p. 50,520.

Pernambuco, maritime prov.. Brazil, S. of Paralyha
and Capta area 4.655 sq. m. p. 1, 198,000. Pruss., p. 9.428

Pernambuco, maritime prov. Brazil, S. of Parahyha and Cearri, area 40,625 sq. m., p. 1,180 000; great sugar and cotton export. Cap. P. (or Reclie), on the Atlantic coast, p. (with the isls. comprised in the communel close on 200,000.

Pernau, forfid. 39th nr. Riga, in Livonia, Russia; gond foreign trade; p. 14,180. [strongly fortfid.; p. 6,042.

Perote, Industri. A. nr. Vera Cruz, Mexico; formerly Perovak (formerly Ak-metchet), fortfid / Kokand, Asiatic Russ., on the Sir Daria R.; cattle tr.; p. 6,154.

Perpignan, fortfid. A che. Pyréndes-Orjentales, France; cathedla, anc. res of the kings of Marjorca; flourishg, trade and industries; p. 40, 248

cathedl., anc. res of the kings of Marjorca; flourishg: trade and industries; p. 40, 748
Perry, c. and tr. centre Noble co., Oklahoma, U.S. A., Perryville, t. in Boyle co., Kentucky, U.S. A.; battle, American Civil War. 1862.
Pershore, mkt. t. on R. Avon, Worcestersh., Eng., p. Persus, Aingdom S. Central Asia, between Turkeyand Baluchistan and Afghanistan W. and E., and Transcaucasia, the Caspian, and W. Turkestan N. to the Persun G. and G. of Oman S. Area 636,330 sq. m., contin 1904. Englands and min chiling with avid party lofty tablelands and mtn. chains, with and desert, and partly fertile and beautiful plans; p. 9,500,000 (3,000,000 nomadic). Cap. Teheran: large co.'s Tauris, Ispalian, Meshed (all of which see); prod.,

co. 's Tauris, Ispalian, Meahed (all of which see); prod., wheat, fuit, sugar; manuf., shawls, silks, carpets, embroidery, arms, etc. The Persian G. is an arm of the Indian Ge., between P. and Arabia, 550 m. long-the Indian Ge. Scotland, N. of Stirling; area 2,588 sq. m., hilly, mftg., and agr.; p. 194,339. Eng. P., c. on R. Tay; dyeing, floori ofth, glass, wincey, and linen factories; p. 35,851. Also c. on Swan R., cap. W. Australia; flourishg, trade and industries; p. 38,500. Also c. in Lanark co., Ontario, Canada, p. 4368. p. 4,268.

p. 4.258.

Perth Amboy, c. and port on Raritan Bay, New Jersey, U.S.A.; terra-cotta works and many flourishg; industries; p. 32,160.

Pertula, industri. c. nr. Avignon, dep. Vaucluse, France, Peru, popula, N. W. of S. America, between S. Pacific, Brazil and Bolivia, and Ecuador and Chilt; area 695,730 s.q. nn., p. (about) 5,000.000, half aboriginal. Traversed by the Cordilleras of the Andes; produces suggestions in the state of the Andes; produces the cordinal pages are constant of the state of the Andes; produces suggesting of the Andes; produces suggesting of the Santagara. Traversed by the Cordilleras of the Andes; produces guano, nitrates, sugar, sait, cotton, nipaca, etc. Cap. Lima; chief port, Callao (ev.). Also name of a c. on Wabash R., Miann co., indiana, U.S.A., mig. centre in agr. regon, p. 0,014. Also mig. c. in colliery dist. Lasalle ro., illinois, U.S.A., p. 7,780. Perugla, prov. Central Italy, traversed by the Apennines: area 3,719 sq. m., p. 700,500. Contains the beautiful L. of Perugia, 30 m. round (the anc. Thrasymene). Cap. of prov. P., c. on hills above R. Tiber; university, cattledral, freecoed "hall of the money-changers." Seat of the Umbrian school of pathers of the Renaissance; p. (communal) 6,980. Peruwels, L. or. Mons, Belgium; industri.; p. 8,855. Peaarc, fortid. L. in the Marches, Italy, on the Adriatic coast; the anc. Plasturum. famous for its figs.; p.

Pesaro, fortid. L. in the Marches, Italy, on the Adratic coast; the anc. Plasturum, famous for its figs.; p. 84,000 (communal). It, rif 8-q. in., p. 75,000; Cap. P. Pesaro and Urbino, prov. Italy, in the Marches; area Pesacadores, str. grp. 30 in. W. of Formoss, in the typhoon track, comprise, 48 leiets, total area 451 qm. p. 95,000; also grp. of Peruvian cat, N.W. of Callao; also sml. grp. of the Marshall Isis. in the Pacific; Pescadores' signifies in Spanish "Fishers' isids." Pescara, R. of Centl. Italy, flows 50 in. to the Adratic, nr. Pescara, t. prov. Cheti, p. (comml.) 6,800. Peschiera, fort l. on L. Garca, nr. Mantus, N. Italy, p. 3,700.

Pescia, c. in prov. Lucca, Italy, nr. Plorence; cathedl., Pescas, c. in prov. Lucca, Italy, in: Florence; cameran, p. 14826, Peschas, d. in prov. Aquila, Italy, nr. Avezzano, Peschawar, dir. (area 2,444 sq. m., p. 800,000) and div. (area 8,806 sq. m., p. 1,750,000) of the Funjab, India; cap, of dist., div., and of the N.W. Provs, P., c. on R. Bara, at the entee of the Khaihar Pass; gt. tr. depot for Afghanistan and Centl. Asia, p. 90,440; W. of the c. is a mill cantonium a acculumedating a W. of the c, is a mil. cantonment, accommodating a force of 20,000.

Peath, c. of Hungary, on l. bank of R. Danube, opp. Buda, and connected therewith by suspensa. br., the two c.'s forming the Hungarian cap. of Budapesth. (See Buda.)

(See Buda.)

Petaluma, c. Sonoma co., California, U.S.A., p. 5,484.

Petcheneg, niftg. f. on R. Sievermoi Donetz, govt

Klurkov, Russ., p. 9,440.

Petchill, China.—(See Pe-chi-li.)

Petchora, K. N. Russ., flows 1,400 m. from the Ura.

Mun. othe Arctic. Oc.

Mus. to the Arcti. Oc.

Peten, L. Centl. America, nr. Yucatan frontier of
Guatemala, 45 m. by 3 m.; also id. in. L.

Peterborough, c. Northarts, Eng., on R. Nene
cathedl., brickworks, and factories, p. 33,578; also
mfg. t. on Otanabee R., Ontano, Can. at the falls,
p. 18,500, also vil. nr. Concord, New Hampshire.
U S A. [also inti. on cst. of Queensland, alt. 381; ft.

Peter Botte Mtn., reinkble rock Mauritus, alt. 2,600 ft;
Peterhead, fielly, port E. Abericleensh., Scotl; grante
output, herring trawling, one of the Elgin burghs,
p. 2,515;

P. 15,513
Peterhof, f. on G. of Funland, 76 m. from St. Petersburg, Russ: beautiful impl. pilace, p. 17 416
Petermann Peak, mr/1, m. F. Greenland, on Kaiser
Franz José Fisord, all, 17,448 ft.

Petersburg, c on the Appomattox R., Virginia, U.S.A; retersion of the Optomation K., vagina, U.S., tolacco manut, and ment-carning, p. 24, 127, also t. on Sangamon R., Illinois, U.S.A., p. 4,028; also twinsip. S. Australia, in Kimberley ming Gist., p. 23,85 Petersfield, mkt. A. nr. Portsmouth, Hants. Eugrey. Petersham, sub. Sydney, N.S.W., p. 23,650; vil. in Peterswaldau, f. nr. Breslau, Prussi. Silesa; industri,

p 9,146. Peter Bay, on est, of Manchura, S of Peterwarden, tortifi. f. on R. Danube, Austra-Hungary, t. e Gibraltar of Hungary, t. 4,100. Petit-Quevilly, 1.e, f. adjoung, Rouen, dep. Seme-Inferieure, France; cutton-spinning, gutta-pewhand chemical wks. b. 20 0054

Infericure, France; cotton-spinning, gutta-pershaut chemical wis, p. 22,034.

Petiad, J. in Baroda 8t., India; gd tr., p. 15,085.

Petone, J. nr. Wellington, New Zealand, p. 3,469.

Petoskey, F. on Little Traverse Bay, L. Michigan, Michigan, U.S.A., est. tr., p. 6,404.

Petra, ruined J. Arabia Petraca, on Wadi Musa brook, in the valley betwn, the Dead S. and the G. of Akabah, Interesting, excavatins.

Sip. 10,180.

Petrikau, 2002. Russi. Poland, on Pruss., frontier, area 4,729 sq. m. p. 901.452; cnp. P., t. on R. Strada, manuf., p. 26,840

Petrograd. (See St. Petersburg.)

Petroles, J. and 2017. on Bear Creek, Lambton co. Ontario, Can, oil wells, p. 4,250.

Petroleum Centre, J. nr. Oil City, Venango co., Penn., U.S.A., p. (dist.) 5,448.

U.S.A., p. (ilist ) 5,418.

Petropavorse, industri. 2 on R. Ischim, Russa. govt.,
Akmoliusk, Siberia, p. 21,400.

Petropaviorseki, smi. 391. in Siberia, on E. est.
Kamtchatka, occupied jointly by the English and French in 1855.

Petropolis, t. ur. Rio Janeiro, Brazil, beautiful health

Petropolis, £ iir. Rio Janeiro, Brazil, beautiful health resont, a.300 ft. above sea-level, p 6,240. Petrovacz, industri. vid. iir. Bates, Hungary, p, 8,416. Petrovoszelo, mfig. t. nr. Old Becse, Hungary, p, 9,684. Petrovesk, pt. on the Casplan, Daghestan prov., Transcaucasia, Russ., hot sulphur baths, naphtha springs, p. 11,400: 1800 tin Russus, govt. Saratov, on R. Medvyeditza, manuf. p. 19,884. Petrozavodsk, t. on L. Onega, Olonetz govt., Russ., orfinance wks., p. 12,380. Petala, or Ipek, t. nr. Scutari, Albania, Turkey, and st, of the Servian patriarch, p. 10,000. Pettau, t. on R. Drave, nr. Marburg, Styria, p. 4,896.

Petuna, or Bodune, f. Karin prov., Manchuria, nr. the Sungari R., p. (est.) 20,000.

Petworth, inkt. f. nr. Chichester, Sussex, Eng., p. Petzka, infig. f. nr. Szegedin, Hungary, p. 17,25.

Petragao, industri. c. nr. Coni, Pedmoni, Italy,

Pewsey, mkt. l. nr. Marlborough, E. Wilts, Eng., p. Pezenas, l. nr. Montpellier, dep. Hérault, France, absinthe distillg., p. 7,500.

Pfeffers, or Pfaffers, vul. cant. St. Gall, Switzld., hot

medicinal baths, p. 2,046.

Pforzheim, industri. t. on edge of Black Forest,

Paletan, moustri. t. on edge of Black Porest, Baden, Germany, jewellery manuf., p. 70,460.

Phaltan, nat. st. Deccan div., Bombay, Italy, area 397 sq. m., p. 68,400; cap. P., t., 37 m. N.E. Satara, [p. 8,425. Phaphund, L. Etawah dist., N.W. Provs., India, Pharsalus, c. in dist. Pharsalia, Thessaly, anc. Greece, the mod. Fersala, scene of Cæsar's triumphs over

the mod. Fersala, scene of Cresar's trumpns over Pompey, 48 B.C.
Philladelphia, c. on Delaware R., Penn., U.S.A., covering an area of 129 sq. m., gt. commerci. industril., and educatil. centre, divided by the Schuylkill R., flourishg. university and city instins., and many thriving manuf., p. over 1,550,000.
Philippeville, spt. c. Algeria, on B of Stora, nr. Constantine, in vineyd. dist., with cork forests, fine liesther. n. 21,000.

harbr., p. 21,000. Philippi, ruined t. nr. Drama, Macedonia, Christian

Philippol, ruined t. nr. Drama, Macedonia, Christian ch. founded here by the Apostle Paul.

Philippine Isls., architet. between the Pacific and China Sea, total area 127,853 sq. m.; comprises Luzon, Cannarines, Mindoro, Panay, Leyte, Samar, Mindanas, Cebu, Negros, Bohol, Palawan, and smir. islands; p. 8,000,000; cap. Manila, prod. tobacco, sugar, coffee, nce, cucca, heup, etc.; ceded by Spain to U.S. 4. in 1808.

Philippoolis, viv. in Orage R. Coll., Brit. S, Africa, lettwu Bethulse and the O. R.

Philippoolis, c. op Manitaz Rul. E. Roumelia Rul.

Philippopolis, c. on Martza R., E. Roumelia, Bulgaria; gt. commerch centre; exports rice, cocoons, attar of roses, wine, corn, etc.; Greek cathedl.; p.

Phillack, t. on St. Ives B. Cornwall, Eng.; p 4,120
Phillaur, t. nr. Thalandar, on R. Sutlej, Punjab,

India; p. 8,000.

Phillipsburg, c. on R. Delaware, Warren co., New Jersey, U.S.A.; ironwks.; p. 11,528.
Phoenix, c. on Salt R., Maricopa co., Arizona, U.S.A.;

industri.; p 6,125.
Phænix Isls., sm. grp. betwn. the Equator and Samoa, Polynesa; formerly productive of guano, now uninhabited. [iron-bridge bdg. wks.; 10,142. Phenixville, her on Schuylkull R., Penn., U.S.A.; Phoukok, French isl. G. of Siam (34 m. by 16 m.); p.

2,820.

Phthiotis and Phocis monarchy (or prov.), Greece, betwn. the G. of Cornth and Thessaly; area 2,349 sq. m.; p. 138,000.

sq. m.; p. 138,000.

Placenza, prev. Emilia, Italy; area 955 sq. m., p. 250,000; cap. P., fortid, t. and military stn. on R. Po; arsenal, mannf; cathedli, noted ch. of San Shto, Palazzo Communale; p. 36,000.

Plans de Greci, t. nr. Palermo, Sicily; industri.; p. Planella, mftg. t. nr. Chiett, Teramo, Italy; p. 7,143.

Plano di Sorrento, t. on B. of Naples, Italy; gd. cst. tr; p. 9,124.

[govt, Siberla, flows to Arctic O, Plassin, J., (75 m. by 30 m.) and R. (250 m.), Yenkeisk Plattigorsk, t. and wat. pl. in Stavropol govt., nr. Georgiewsk, Russ.; hot springs; p. 35,478.

Plattra, t. on R. Bistritza, Kounania; many churches; timber and wine tr.; 17,500.

Platra, I. on R. Bistritza, Roumania; many churches; timber and wine tr.; 17,500.
Plauhi, or Plauhy, maritime prov., Brazil; area info.218 8g. m.; p. 305,000; cap. Therezma; also R. of P. prov. (flows 300 m.), trib. R. Caninde.
Plave, R. Italy (125 m.) flows to Adriatic 52 m. E.N.E. of Venice.
Plavozero, L. W. of Archangel, Rúss.; 50 m. long, 35 m. wide.
Plazza, c. nr. Caltaniaste Stichte Venice.

pagate waster. Caltanisetta, Sicily, Italy; good tr.; p. Piazzaola, mkt t. nr. Padua, Italy; p. 6,124. [22,686. Picardy, old \$rov. France; now div. into deps. Yonne, Olse, Aisne, Pas-de-Calais, and Somme. Pichincha, \$rrov. Ecuador; area 6,225 sq. m., p.

210,800; also volcano, W. of Andes range, nr. Quito;

210,800; also volcano, W. of Andes range, nr. Quito; cap. P. prov.; alt. 75,924 ft.
Pickering, mkt. t. N.R. Yorks, Eng.; p. 3,674; also sub. dist. prov. Ontario, Can. [detta (g. v.).
Pic-Nethou, pk. of the Pyrenées; also called Maia-Pico, ist. of the Azores; area 25, 52, m., wine tr.; p. 224,00; also volcano on same, alt. 7,600 ft.
Picton, 59t. Marlborough prov., New Zeald.; p. 3,924; also port on B. of Quinté, nr. Kingston, Ontario, Can.; p. 3,493; also t. in co. Camden, N.S.W.; p. 4,018

4,018

Pictou, spt. P. co., Nova Scotia; coal export; p. 3,464. Piedimonte, t. nr. Taormina, Catania, Sicily; p. 5,894; Piedmonte d'Alife, t. nr. Caserta, S. Italy; p.

Piedmont, terr. N. Italy, embracg. provs. Turin, Cupeo, Novara, and Alessandria; area 11,340 50, m., p. 35,500,000; mainly agr. Cap. Turin, c. [g. v.]. Piedra Blanca, t. prov. Catamarca, Argentina; gd. tr.; p. 14,289. Elig., nr. Ramsden Dock. Piele, szl. (with ry. stn.) nr. Barrow-im-Furness, Lancsh., Pierce, c. Missouri, U.S.A., impt. ry. centre, Lawrence co.; p. 5,296. Quebec, Can.; p. 3,240. Pietreville, vvill. on R. St. Francis, Yamaska Co. Pietreville, vvill. on R. St. Francis, Yamaska Co. Pietreville, vvill. on R. St. Francis, Yamaska Co. Pietra Galla, t. Potenza prov., Italy; industri, p. 7,042. Pietra Galla, t. Potenza prov., Italy; industri, p. 7,042. Pietrasanta, t. nr. Luica, Italy; gd. local tr., p. (communl) 15,108.

munl ) 15,108.

muni 1 25,108. Pilcomayo, or Araguai, R. rising in S. Bolivia, and flowg, through the Gran Chaco, separating W. Paraguay from the Argentine; trib, (r.400 m.) of the Paraguay, which it lone opp. Asuncion. Pillbhit, 24tt. Rohilkhand, div. N. W. Provs., Brit. India, area 1,372 SQ. m.; grows rice, wheat, and sugar, p 470,000; (ap. P., t. on Desha R., p. 35,000. Pilkington, mfg. t. S.E. Lancash, Eing. p. 16,18. Pillau, fortid 5tt. betwn. Frischesstaff and Baltic, E. Pruss.; outport of Königsburg shipbldg., amber

workg., p. 3,000. Pilsen, c. at juctu. of Rs. Radbusa and Mies, Bohema,

Austria; beer-brewg, bell-fdg, p. (includg, suburbs and garrison) 80,420 [London, Eng., p. 23,520. Pimlico, 41st (residtl, and industr.) of Westminster, Pinar del Rio, c. of W. Cuba, centre of Veulta Abajo,

Pindar dei Rido, c. of w. Choa, centre of ventia Abajo, tobacco industry, p. 10,164.
Pinczow, industri, t. in Kielce prov., Poland, p. 7,082.
Pind Dadan Khan, t. Jhelum dist., Punjab, India; hnassware, embrondered scarves, pottery, &c., p. 15,000.
[Greece, highest pk., 8,050 ft. Pindus, mtn. chn. betwn. Thessaly and Albania, N. Pine Bluff, c. Jefferson co., Arkansas, U.S.A.; in cotton rem. p. 16 vice.

Pine Bluff, c. Jelferson co., Arkansas, U.S.A.; in cotton regn., p. 12,100.

Pinegar, R. of Archangel, Russ., trib. (50 m.) of R. Pinerolo, mig. L. in Turn prov., Italy, p. 18,62.

Pines, Isle of, French possn. in the Pacific, nr. New Caledonia, area 293 sq m.; convict settlement; also Spanish isl. of the W. Indian Arch, nr. Cuba, area 1,214 sq. m. [the Pina R.; grt. water tr., p. 34,834 Pinask, L. in Minsk govt., W. Russ., on the marsies of Pinxton, industri. vzl. nr. Alfreton, Derbysh., Eng., p. 2,518. p. 2,51

p. 2,518. [D. 9.075]
Piove di Sacco, £. nr. Venice, in Padua, Italy; manuf., Piperno, £. nr. Prosinone, S. Italy, on the Amaseno R., the Volscian Privernum, p. 6,042. [manuf., p. 13,708]
Piqua, £. on the Miani R., Ohio, U.S.A.; agr., imp Piquetberg, £. in P. div., W. prov., Cape Col., Brit. S. Africa, p. (dist.) 3,222. Pirzeus, £. and port nr. Athens, Greece: great tr., p. Pirano, 34. Istria, A. Mastria, nr. Tineste; vine and olive culture, manuf., p. 14,190. [10,586. Pirtemedi, fortid. m Janina vilayet, Albania, Turkey, p. Pirtu, cst. £. Venezuela, opp. Pirtu Isls., p. 8,200. Pirmasens, mfg. £. nr. Zweibrücken, Rhenish Bavaria, p. 16,842.

Pirmasens, mfg. t. nr. Zweibrücken, Rhenish Bavaria, p. 16,824.
Pirna, industri. t. on R. Eibe, Saxony, p. 21,020.
Pirot, t. (with mediæval fortress) on R. Nishnana, p. (incidg. military) 11,083.
Pisa, prov. Italy, area 1,180 sq. m., p. 318,140; cap. P., c. on R. Arns, famous leang, tower, cathedi., university, mineral baths, royal stud farm, cotton manuf., p. 66,100.
Pisek, or Piseca, mfg. t. nr. Tabor, Bohemla, p.

Pishni, mm. valley Afghanistan, ait. 5,000 ft., area 3,600 sq. m., p. 60,000. [nr. Martingny, 230 ft. Pissevaché, famous valerfall, cant. Valais, Switzld., Pisticci, £ nr. Matera, Basilicata, Italy; industri., p. 9,004. [with citadel, thriving industries, p. 30,006. Pistoja, £ nr. the Ombrone, Florence, Italy; walled, Pisuserga, £. Old Castile, Spain, trib. (140 m.) of R. Douro. Douro.

Douro.

Pitcaira Isl., most S. of the Low Archipelago, E. Pacific, area 3 sq. m.; under admin. of N.S.W., p. 196, mostly descendits. of the mutmers of the "Bounty."

Pites, R. N. Sweden, flows 180 m. to G. of Bothnia; Pitesci, or Pitesti, t. on R. Arges, Willachus, Roumanis; flourg, tr., p. 16,744. [tt., p. 17,846 Pithapur, t. Godavari dist., Madras, India; gd. local Pithivers, t. nr. Orleans, dep. Loiret, France; saffron growg, dist., noted for pies and cakes, p. 6,684.

filochry, picturesque Highland vil. nr. Pass of Kilhecraukle, Perthsh., Scotl.; tourist res., resdtl.,

Killecrankle, Perthsh., Scotl.; tourist res., resoftl., p. 1,640.
Pitaligo, New, c. nr. Fraserburgh, N. Abordeensh., Pittenween, burgh on F. of Forth, Fife, Scotl.; one of the St. Andrews Burghs, p. 1,883.
Pittsburg, gt. ironworks c. of Alleghany co., Penn., U.S.A., at confi. of Alleghany and Monangaheth R.'s; university p. (with subs.) 750,000: also a c. o. Crawford co., Kansas, U.S.A.; zinc-smeltg., p. 13,140
Pittsfield, c. on the Housdtonic R., Burks co., Mass., U.S.A.; zu. Cytton and boot factories, p. 22,211 also Pittaneid, c. on the Housdomc K., Berks Co., Mass., U.S.A.; cotton and boot factories, p. 23,12; also vsl. nr. Quincy, Pike Co., Illinois, U.S.A., p. 4,800. Pittston, c. on Susquelasima R., Luzerne Co., Penin, U.S.A.; anthracite coal regn., p. 14,150. Pura, N. deß., Peru, area 13,931 sq. m., p. 240,280; c.p. P., t. nr. the cst., p. 13,500. Pizzo, 7,97. Catanzaro prov. Calabria, Italy, on steep cliff overleg, G. of Santa Eufemia; castle, tunny and creat felice. p. 8,866.

coral fishg. p. 8,860 [p. 7,94].
Placentia, t. on W. cst. Avalon Penins., Newfoundhand,
Placentia Bay, sules of the Atlantic, S. cst. Newfound-

Placentia Bay, suite of the Atlantic, S. cst. Newlound-lund, 6g in. long.

Plainfield, c. Uinon co.. New Jersey, U.S.A., 24 in. from New York; resultl., p. 20,550

Plaintow, dist. E. London, Eng., in bor. West Ham, p. 105,024; industrl. and resultl.

Plaquerrine, vol. on Missussipin R., Louisiana, p. 4,385.

Plasacencia, t. on R. Jerse, Laceres prov., Spain; tr. in agr. prodee, p. 5,054.

Plassey, battle/rid on Binagirathi R., Bengal, India. Plata, La.—See Argentina.)

Plate R., on Kio de la Plata, estuary of the Paraná and Uruguay R.'s, flowing to the Atlantic betwn. Argentina and Uruguay, 170 m.; width at lead 25 m., at mouth, 138 in. [[500 m.] of R. Missouri. at mouth, 738 iii. [[300 iii.] of R. Missouri.
Platte R., or Little Platte R., Iowa, U.S.A., 106.
Platte (Or Nebraska, R., 498., 1,129 iii.) of the
Missouri, from Colorado, Wyonung, and Nebraska, of Pesth.

U.S.A. e. (of Pesth. Platten See, L. (area 266 sq. m.) Hungary, 55 m.S.W. Platterille, f. Grant co., Wisconsin, U.S.A., on Little Platte R., D. 3,949. (York, U.S.A., D. 9,070. Plattsburg, infly, f. on L. Chaplain, Clinton co., New Plattsmouth, c. Cass. co., Nebraska, U.S.A., at conf. of Platte and Missouri R.'s; grain and cattle tr.,

p. 5.646.

Plauen, f. on Weisse Elster R., nr. Zwickau, Saxony; plano works, cotton factories, etc., p. 92,148.

Pleasant Hill, f. nr. Kansas c., Missouri, U.S.A., INow Zealand.

Pleasant Hill, t. nr. Kansus c., Missouri, U.S.A.,
p. 4.12c,
Plenty Bay, arm of the Atlantic, N F. cst. No. Isi.,
Pleatenberg, t. nr. Arnsberg, Westphalia, p. 4,840.
Plevna, fortid. t. on Touchinitza R., Bulgaria; many
mosques; besieged and captured by the Russns,
1877; large tr. wine and cattler, p. 19,000.
Plialimmon, men. Monnrouthsh. and Cardigan.,
Wales; ait. 2,450 ft.
Plock, c. on R. Vistula, Poland; grain and wood export,
p. 28,000; cap. Russn. govt. of P.; area 4,200 sq. m.,
p. 524, 440.
Plockmeur, cst. f. Morbihan dep., France, p. 11,440; 

Plombières, f. nr. Epinal, Vosges dep., France; warm

saline springs; p. 2,820. Plumstead, ass. of Woolwich, Kent, Eng.; contains

Plumstead, astr. or woodwich, went, Ling., Johannes royal arsenal; p. [E. and W.) 71.223. Plymouth, spt. and dockyd. t. Devon, Eng., on Ply-mouth Sound Comprises the "three towns" of P., Devonport, and Stouchouse; p. 112.042. Ship

and engineery, works, and many manufa.

water r m. long, and extensive forticus.

Plymouth, sec. on P. Harbr., P. co., Mass, U.S.A., nr. Plymouth, 5st. on P. Harbr, P. co., Mass, U.S.A., nr. Buston; manuf, and tr.; p. 10.450. Plyrnu fathers landed here 1600; also bor, Luzerne co., Penn., U.S.A., on Susquehanna R., in authractic coal regn., p. 16.246; also t. on Yellow R., Indiania, U.S.A., p. 4.250; also sml. pt. N. Carolina, U.S.A.
Plympton, mkt. f. Devon, Eng., 4 m. E. Plymouth, nr. K. Plyn, p. 1,450.
Phom Penh. f. nr. Udoug, Cambodia, on R. Mekong; Po. R. Italy flows from Monte Vso, through Pudmont and Lomluardy (340 m.) to the Adrauc.
Pocahontas, 6: nr. W. Virgnia; also sub. of Petersburg, Chesterfield co., Virgnia, p. 5,470; so mfg. f. in Taxewell c., Virginia, p. 5,470; also sub. of Petersburg, Chesterfield co., Virgnia, p. 5,470; Podgoritza, f. nr. Scutari, Montenegro, fortifd., p.5,898.
Podgorze, niftg. f. on R. Vistula, opp. Cracow, Austria, Gaucia, p. 1,4070.

Gancia, p. 14,610.

Podolia, gout. S. Russ., N. of Bessarabla, and borderg. on Austra; area 10,224 sq. m., p. 3,25,000. Industries, agr., stock-raising, gding., bee-keepg., etc.; chf. t. Kamentez-Podolsk, or Kamentez-Polye, etc.; chf. t. Kamentez-Polye, etc.; chrometer-Roughest etc., pointe-a-Pitre, etc. in isl. of Guadaloupe, French W.

Pointe-a-Fitte, f. in an of Onderstope, Floraci F., f. index, p. 7,1840. [the anc. Pinclacim; p. 8,120. Poissy, f. nr Versailles, dep. Seme-st-One, France; Pointers, or Pointers, or Pointers, or Pointers, or Pointers, or Huguenot stronghold, from cathedral; near here the Black Prime defeated the Franch in 1350, and cap-

tured King John; p. 42,164 (communt).

Pokrovsk, industri. 2. Samara govt., Russ., p. 20,458.

Pola, fortid. 20. on Istria pen., G. of Venice; chf. naval stn. and arsenal of the Austro-Hungarian Empire; the Roman Pietas Julia; cathedl., many Roman antiquities; impt. commel. harbr. and centre; p. (with garrison) 48,500.

with garrison, 48,500. Poland, former indpt. cv. E. Centl. Europe, partitioned 1772 and 1795, and incorporated by Austria, Pruss., and Russ. The portion retaining the name now forms the W. div. of Russ.; area 49,159 sq. m., p. 10000,000; cap. Warsaw (ρ. ν.). Polignano, ρ. nr. Burn, Italy, on the Adriatic, p. 8,546. Polilla, 15t. of the Philippine grp., E. of Luzon, 30 m. by 20 m.

Poinila, 1st. of the Primppine g. pr., by 20 in. by 20 in. by 20 in. claim, tally, nr. Regglo; industri.; Pollensa, t. in Calabria, Italy, nr. Regglo; industri.; Pollensa, t. in Majorca, Balearic Isla, nr. Palinia, p. 8, 35. pollenza (the auc. Polentia), t. in Macerata prov., Italy, Pollokshaws, burgh to Renfrewsh, Scotl., ashin, to Glasgow; industri. and residenti., p. 12, 922. [p. 4, 018. Pollokshields, S.W. 18th. Glasgow, Scotl., residenti.; Polna, t on Moravian frontier, Bohenia, Austria; Starch manuf.; p. 5, 250. [Vitelask, Russ., p. 21, 585. starch manuf.; p. 5, 250. [Vitelask, Russ., p. 21, 585.]

Folias, 7 oil artestant notice; bordenias, acetar, starch manuf.; p. 5,255. [Vitelsk, Russ., p. 21,585. Polotsk, or Polots, industri. 4 on R. Duna, govt. Polotsva, geov. S. W. Russ., area 19,265 50. in a sgr; p. over 3,500,000, mainly peag-intry; cap. P., industri. t. on the Vorska R.: Formerly land great wool fairs,

now declined: p. 55,000.

Polynesia, sub.-dev. of Oceania, comprising the isls, and groups of the Pacific within 30 degrees N. and S. of the Equator, and betwn. 135 degrees E. and W. long; all of which are dealt with under separate

Pomarance, t. nr. Velterra, Pisa prov., Italy; mdustil.; p. (communl.) 8,446.
Pombal, t. nr. Leiria, Estremadura, Portugal; p.

mdustil.; p. (communl.) 8, 46.

Pombal, d. ar. Leira, Estremadura, Portugal; p.
4,840; also t. m Paralila prov., Brazil; p. 4,346.

Pomerania, prov. N. Russ., area 11,628 sq. m.,
p. 1,700 640; divided into govts. Stettin, Straisund,
and Košin (all of which see).

Pomeroy, c. on Ohio R., Meigs co., Michigan, U.S.A.;
p. 5,864; Eoul.fs. 463 and salt works.

[p. 10,434.

Pomogla or Manifand, one of the Orkneys, 12,72];
also c. Los Angelos co., California, U.S.A.; fruitculture: 16,427. culture; p. 6,427.

Pompeti, ruined c. of Italy, stood 13 m. S.E. of Naples, nearly at foot of Venevius; destroyed A.D. 79, site discovered in 1748; many most interesting

Ponanii, t. Malabar dist., Madras, India p. 73,414.
Ponane, vol. st., Caroline grp., Pacific Uc.; 12 m.
long; Germn. Penape, vol. st., Caroune grp., racinc OC.; 12 m. long; Germa.

Ponce, t. on S. est. Porto Rico, nr. San Juan; medit.inal Pondicherry, c. on the Coromandel est.; eap. French E. India; too m. S. of Madras; cotton, rice, etc., exports; area of dist. ris 54 m., surrounded by Brit. terr. S. Arcot; p. s85,000; p. of c. 52,600.

Pondoland, terr. Cape Col., Bnt. S. Africa, S.W. of Natal; p. (abt.) 200,000.

[and tr.; p. 20.746.

Ponesyah. A nr. Vilas. 2004. Koyto, Russ.; manuf.

teir, S. Arcot; p. 485,000; p. of c. 52,600.
Pondoland, terr. Cape Col., Bnt. S. Africa, S.W. of
Natal; p. (abt.) 200,000.
[and tr.; p. 20,126.
Poneveh, f. nr. Vilas, govt. Kovno, Russ.; manuf.
Pons. t. dep. Charente-Inférieure, nr. Santes,
France; p. 4,814; also t. m, nr. Montpeller, dep.
Herault, France; p. 5,740.
Ponta Delgrada, t. on Sao Miguel, Azores; largest t.
m the Isles; Portugues p. 18,412.
Ponta-Mousson, t. on R. Moselle, nr. Nancy, France;
lacquer-ware manuf.; p. 13,084.
Pontarlier, fortid. t. Doabs dep., France; absinthe
distilleres; p. 8,582.

Pontarlier, fortid. f. Doals dep., France; ausmine distillenes; p. 8,583.
Pontaasieve, unfig. f. nr. Florence, Italy; p. 12,130.
Pont-Audemer, t. on R. Risle, dry. Eure, France; metal and leather factories; p. 6,082.
Pontchatrain, L. N. of New Orleans, Louisiana, U.S.A.; 40 m. by 25.
[a principality; p. 10,018.
Pontedera, unfig. f. on R. Arno, nr Pisa, Italy; p. 12,510.
Pontefract, industri., ni Wakefield, W.K. Yorks, Ponteward, 2 metal. Ponterfact, f. industri, in Wakeneld, W.K. Yorks, Pontevedra, Prov. Spain, on Atlantic est; area, 1,739 Sq. m.; agr., live-stock, fisheries; p. 449,810. Cap. P., t. nr. K. Lerez; p. 20,184.

Pontiac, c. on the Clinton R., Oakland co., Michigan, U.S.A.; sptg. resort (fishg. and shooting on the lakes); p. 11,410; also sml. c. on Vermillion K., Livungstone

p. 17,410; also sml. c. on Vermillion R., Livingstone co., Illinos; p. 4,815.

Pontianak, f. on W. cst. Borneo; thriving Dutch Ponticelli, vvl. nr. Naples, Italy; p. 6,819.

Pontifical States, States of the Church, or Page States; compartment of Italy, formerly comprising the present dist., Umbra, the Marches, and Latun. Pontine Marshes, swampy tract extending 25 m. slong the Italian cst. S. of the Compagna di

R. Öma.

Pontivy, formerly Napoleonville, t. on R. Blavet, dep. Morlyham, France; military centre, anc. castle of the dukes of Robiam; p. no. 15.

Pontnewyndd, t. nr. Pontypool, Mounnouth, Eng.; Pontoise, t. nr. Pans, dep Sumeer-Close, France; old Celtic t. with good modern trade; p. 8.04.

Pontremoll, t. in Magra Valley, Tuscany, Italy; cathedral, citadel, mineral springs, marble quarries; p. xt,4io.

Pontypool, mkt. t. nr. Newport, Monmouth, Eng.; p. xt,4io.

Pontypool, d. Newport, Monmouth, Eng.; p. 18.46.

Pontypoold, or Newpirige, nekt. t. on R. Taff, Glanorgansh, Wales, manuf., remarkable bridge; p. 43.216.

A3.215.
Possza, chf. tsl. of the sm. Ponza group off coast Campans, S. Italy: was a state prison place under the Roman emperors; p. (of the group, including Palmarolla and Zannone) 3.627. Anciently called the Pontine Isls.

[local trade: p. 11.826.
Poo-Ching-Filen, t. in Fo-Kien prov., China; good Poole, chf., and mkt. t. E. Dorset, Eug.; oyster fisheries, seed barbary: 1. 2. 286.

Poole, sp. and mkt. f. E. Dorset, Eug.; oyster fisheries, good harbour; p. 3886,
Peona, dist. Deccan div., Bombay, Brit. India; a rea 5,30 sq. m.; agr., cotton, silk, and blanket manuf.; p. (nearly) 1.00.000. Cap. Poona, or F2na, c. on the Muta R. Indigs. of Bombay array; thrwing industris; p. 173,360 (including castenment 30,000).
Poperiagha, c. ascen st., Columbia, p. 8,946.
Poperiagha, c. h. W. Flanders prov. Belgium, in hop-grawing dist., p. 17,956.
Popolar, par. E. London, Eng., Thame-side industri.
Popocatepetl, active volcame, pr. Publa, Mexico, alt. 17,754 ft.

17,764 ft.

10. 7,855.

Porbander, uat. st. Gujarat div. Bombay, India, on the Kathawar coast; are 656 sq. m., p. 85,000. Cap. P., considerable native bost trade; p. 20,004.

Porco, min. group in Andes of Bolivia, alt. of highest peak, 16,000 ft.
Pordeaone, /in Udine prov., Venetia, Italy; cathedral, silk and cotton industries; p. 7,814.
[D. 4,864, Porsgrund, 5t. Norway, on Skaper Rock; timber tr.;
Port Adelaide, 5tt. St. Australia, nr. Adelaide c., on G. St. Vincent, p. 6,366.
Portadown, t. on R. Bann, Armagh, Irel.; lines manuf; agr. prod. mikts; p. 11,797.
Portage, c. on Wisconsin R., Columbia co., Wisconsia, U.S.A.; tarnumg and tumber region; p. 6,506.
Portage la Prairie, port Macdonald co., Manitoba, Canuta; gram expti; p. 4,847.
Port Albert, spt. t. Victoria, nr. Corner Inlet, p. (dist.) 3,600.

3.6%.
Portalegre, dist. Portugal, agr., olives, wines, area.
2,482 sq. in., p. 190,000. Cap. P. c., 103 m. N.E.
Lisbon, cork and woollen manuf., p. 11,428.
Lisbon, cork and woollen manuf. p. 11,428.

Portarlington, mkt. t. on R. Barrow, Queen's and

King's Co, Jieli; P. 2,440.

Port Arthur (Linice Lu-shun-Kou), fortness S. of the Liaoting pennsula, Manchiria, formerly a Chinese navil anean, captured by the Japanes 1894, Isaact to Russ. Inter, but again surrendered to the Japan. after a stubborn siege, Jan. rst, root. A most import, strategy point commandg, the Gulf of Pe-chi-li and the Yellow S.; t. Ont. Can., p. 17, 200.
Port Augusta, J. on Sponcer G., S. Autralia, fine harbour and t. hall, p. 1,560; also spt. W. Australia,

on Cape Leewin.

of the Haytan Republic, on B. of Consuves, gt. tr., suffered sevi. times from earthquake and fire, p.

50,000. Port Blair, Indian conv.ct settlemt., Andaman Isls. Port Chester, mifg. vil. Westchester co., New York, U.S.A., on Long Isl. Sound, p. 8,680. Port Darwin, or Palmerston, chi. t. and harbr. nr.

terr. S. Australia, p. 3,018.

Port de France, or Noumea, cap. New Caledonia.

(French), p. 10,000.
[Fortholl, p. 10,000.
Port Denison, harbr. and bay on P. cst., Queensland, Port Dundas, N. sub. Glasgow, Scotl., junct. of Forth and Clyde and Monkland canals, p. 5,018. [Africa. Port Darnford, harbr. on cst. of Zululand, Brit. S. Portel, Le, cst. vil. dep. Pas-de-Calais, France, p.

5627.

Por Blizabeth, 59t. on Algua B., Cape Col., Brit. S., Africa, exports skins, wool, ostrich teathers, p. 38,600.

Portentruo, industri. t. cant. Bern. Switzld., p. 5,845.

Port Brin, ist. vit. nr. Castletown, Isle of Mag.

naneries.

Port Fairy, or Belfast, cst. 1. in Victoria, p. 2,918,

Port Glasgow, shipbidg. centre on R. Clyde, 20 m. below Glasgow, Scott. p. 17,749

Port Hope, Chf. 1. Durham co., Ontario, Can., on M. shore L. O., indust. p. (dist.) 6,024.

Port Huron, c. and 11. on St. Clair R., Michigas, U.S.A. p. 22,108, gt. gram and tumber tr.

Porticl, 1. on B. of Naples, Italy, industri. and residt.

Portice, t. on B. of suppose, and suppose property in 13,400. Portishead, cst. t nr. Bristol, Somerset, Eng., p. 2,946. Port Jackson, splendid harb. (18 m. long) on cst. co. Cumberland, N.S.W., Sydney co. (9,v.) on S. shore. Port Jervis, vil. on Delaware R., Orange co., New York, U.S.A., railwy, wks. and manuls., p. 9,510. Portknockie, fishg. vil. on cst. Banfish., Scotl., nr. Banbles v. vil.

Buckie, p. 1,248.

Portland, c. Oregon co., Multnomah, U.S.A., on R. Willamette; gt. wheat and flour export, p. 207,214; also c. Cumberland co., Maine, U.S.A.; flourishg, spt., fine harb., p. 58,046; also t., Middlesex co., Connecticut, U.S.A.; stone quarries, p. 4,000; also t. N. of and subn. to St. John, New Brunswick, Can.

p. 16,420.

Portland Canal, ford on N.W. est. of America, formg. bdy. between Alaska and Brit. Columbia; lower

portion known as Portland Inlet. portion known as Portland Iulet.

Portland, Isl. of, peninsula and t. (with dockyd. and convict prison) 4 m. S. of Weymouth, Dorset, Eng.; Bill of Portland at extremity.

Portland Town, diet. in St. Marylebone, Middlesex;

Portland Town, diet. in St. Marylebone, Middlesex;

Pott Louis, sp. 10-0. Morbihan, France, in: Lorient,

p. 3.469; also cap. of isl. of Mauritius, Indian Oc., chf. commerci. pl. in col., p. 72.460.

Port Macquarie, t. (and trated) on cst. N.S.W., at Hastings R., p. (dist.) 4, 124.

Portmadoc, 59t. on Premadoc B., Carnarvonsh., Wales; copper and slate export.

Port Mahon, 59t. can. isl. Minorca, Spain; quarronsh., wales; copper and slate export.

Port Moody, terminus Canadian Pacific Ry., Brit. Columbia, Vancouver. [on S.E. cst., p. 1, 264.

Port Moresby, t. and stn. of govt. Brit. New Guinea, Port Natal.—(See Durban.)

Port Nicholson, **Aardr.** at S. extrem. N. isl., New Porto Alegre, cap. c. Ru Grande do Sul st., Brazil; exports lard, preserved meats, &c., p. (est.) 100,000.

Porto Edip. vat. \$0. on F. of Forth, Edinburgh, Scotl; one of the Leith Burghs, p. 9,385

Porto Calvo, t. in Alagoas prov. Brazil, p. 8.666.

Porto Empedocle, t. and spt. Grigenti prov., Spain; sulphur exports, p. 7,808.

[gd. tr. p. 10,008.

Porto Feliz, t. Sao Paulo prov., Brazil, on R. Tite; p. 5,802.

Porto Spain, cat. isl. Trinidad, W. Indies, p. 25 cor. of Spain, cat. isl. Trinidad, W. Indies, p. 25 cor.

p. 5,802.

Port of Spain, cap. isl. Trinidad, W. Indies, p. 35,000.

Portogenaro, t. nr. Udine, prov. Venice, Italy;

industri., p. (commune) 9,864

Porto Maurizio, prov. Liguria, Italy; area 455 sq. m.,
p. 148,600; cap. P. M., t. on G. of Genoa, bathing

p. 12,000. W. Indian 11/2. of the Greater Antillesceeded by Spain to the U.S.A. in 1296; area 3,600 sq. m.; produce coffee, sugar, cocoa, tobacco, &c., p. nearly 1,000,000, mainly natives of unixed Spenish and aborigunal descent; cap. San Juan de Porto Rico. Porto Santo, sml. 13% of the Madeira grp., 26 m. N.E. Madeira.

Porto Santo Stefano, spt. S. of Tuscany, Italy, p. Porto Vecchio, spt. Corsica, Italy, nr. S. extrem. of

Porto Vecenio, 30 Corsica, 17a1y, nr. S. extrem. or sit, p. 2,76 ay on S. cst. Victoria (40 m. long, 40 m. wide); Melbourne stands on R. Yarra Yarra at its mth. in P. P. Bay.
Port Piric, 30. on Spencer's G., S. Australia, p. 1,246.
Portree, 50. on W. cst. Skye, Inverness co., Scotl.

p. 884.

Port Republican. (See Port-au-Prince and Hayti.)

Port Richmond, part of Richmond bor., New York

city, U.S. A., on N. shore Staten Isl, p. 6,50.

Port Royal, fortfd. t. Jamaica, nr. Kingston, dockyd,

and barracks, p. 16,000.

Portrash, 19t. nr. Coleraine co., Antrim, Ireld., p.

Port Said, 19t. Egypt, N. end Suez Causl., p. 40,000.

Portsea, Island, fortfd. 1st. on cst. of Hants, Eng.,

College of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of th

between Portsmouth and Langston Harbours. (See

between Portsmouth and Langston Harbours. (See Portsmouth.)
Portsmouth.)
Portsmouth, bor. and naval port, Hants, Eng., o. 6.454.
Portsmouth, bor. and naval port, Hants, Eng., on Portsea isl., opp. Isle of Wight, p. 32,105, has largest naval estab. in the world: Portsmouth is the garrison t.; Portsea has the naval dockyds, Landport is resident! from the industr!, pop., and Southsea is a pop. mod. wafz, pl. within the bor. area; across the harbour is Gosport (p. v.).
Portsmouth, c. on the Ohio R., Scioto co., Ohio, U.S.A., iron and boot manuf., p. 32,481; also spt. at mth. of Flazabeth R., Virginia, U.S.A., rly, wks. and many manuf., p. 33,20; also c. on Piccataqua R., New Hampshire, U.S.A., cotten manuf., p. 11,438.
Portsoy, 5pt. nr. Banff. Scotl., p. 1,051.
Port Townsend, c. Jefferson co., Washington, U.S.A., tumber tr., p. 35,200.

timber tr., p. 3500.

Portugal, republic of the Iberian penin., S.W. Europe, area (includg. Madeira and the Azores) 35.655 sq. m., mtnous, with wide fertile valleys; prod. grapes, cereals, oranges, olives, multiperies; agr., mftg., and fisheries, p. 5,500,000; cap. Lisbon

Portugalette, f. nr. Bilbao, Biscay prov., Spain, p.

Portuguesa, st. N.W. Venezuela. area 6,815 sq. m., p. 86,000; cap. Guanare; also R. Venezuela, trib. (200 m | of R. Apure. I. 1,190. Portugua, to n. R. Shannon, co. Galway, Ireld., p. Port Vendres, spt. nr. Perpignan, dep. Pyrénées-Orlentales, France, p. 3,542 Posadas, t. on R. Guadalquwer, nr. Cordova, Spain, Poschaerste t. in South (See Pasacanuste).

Poscharevatz, t. in Servia. (See Passarowitz.)
Posen, prov. of Prussn. Poland, area 11,184 sq. m. Posen, prov. of Prussn. Poland, area rr.184 sq. m., p. 1,900,000, stock-raise, mining, and niftg.; also dist. or govt. in same, and c. (cap. of prov. and govt.) on R. Wartha, fortfd. hdqrs. 5th German Army Corps, carhedl., and many manuf., p. 125,000.
Posgam, t. nr. Yarkand, Chinese Turkestan, p. 8,245.
Possnet Bay, W. cst of Sea of Japan, Asante Russ.
Pössneck, old t. in Saxe-Meiningen, Germy., nr. Jena,

Possneck, old I. in Saxe-Meiningen, Germy., nr. Jena, porcelan and flanuel manuf., p. 14,268.
Potchefstroom, wil Transvaal Col., Brt. S. Africa, on the Vaal R., p. 4,728.
Potenza, prov. S. Italy, area 5,845 sq. m., p. 555,405; cap. P., forfd. t. nr. Salerao, cathedi., wine, brickmig. p. 10,500.
Potenza Piscena, I. on the Adriatic, Macerata prov., Potl. I. and 5pl., forfd., on R. Kion, Transcaucasia, Russ., p. 3,859.
Potomac, R. oi U.S. A., dividg. Virginia from Maryland, flowg. (400 m.) past Washington to Chesspeake Bay.

land, flowg. (400 m.) past Washington to Chesspeake Bay. Potosi, dep., Bolivin, adjoing. Chil and the Argentine; area 52, 100 sq. m., famous for silver mines, p. 35,800. Cap. P., on slo, e of Cerro Gordo de Potosi, 13,330 ft. above sea-level, flourishg. tr., p. 20,860. Potsdam, f., Pruss., 16 m. S.W. Berlin, in centre of picture-que lake dist. of Havel. Cap. Potsdam govt., beautiful parks and gardens and many palaces, includig German limpl. res., p 64,000. Potteries, The, dist. N. Staffs, Eig., centre of earthciuware industry, comprisg. tr., Burslem, Hanley, Fenton, Tunstall, Stoke, and Longton, all of which see.

which see

winco see.

Potton, m&t. t. Bedfordsh., Eng., p. 2,263.

Pottstown, bor. on Schuylkill R., Montgomery co.,

Penn., U.S.A., ronwks., p. 14,082.

Pottsville, c. of Schuylkill co., Penn., U.S.A., manuf.

Pottsville, c. of Schuylkill co., Penn., U.S.A., manuf. centre in anthractic coda regn., p. 20.236.
Poughkeepsle, c. in Duchess co., New York, U.S.A., on Hudson R.; clothing and iron factories, in: Vassar Coll. for women, p. 27.236.
Poultney, C. nr. Vermont, U.S.A., on New York border, p. 4.256.
Poulton-le-Sands, townshp. on Morecambe B. Lancs, Poverty B., rutet on E. est., N. 1st., New Zealand Po-Yang, L. prov., Kiangesi, China, Bo in. long, 40 m. wide

wide

write

Wild

Pozoblanco, f. nr. Pedroche, Cordoba prov., Spain, cattle fairs, rich lead mines in dist., p. 12,000.

Pozsony, f., on R. Danube, Hinigary, 3g m. E. of Vienna; dynamite and fine brush manuf., p. 70,000.

Pozzuoli, f., ir. Naples, Italy; mini. baths, ordnance works, p. 17,110. Notable Roman ruins.

Praga, f., on R. Vistula, Poland, opp. Warsaws, stormed by Russns, under Suvaroff, 1794; p. 4-180.

Plague, c. of Bohemia, picturesque anc. cap, on R. Moklau, universy, founded in 1348, extensive manuf. and tr., fine cathi.dl.; p. (inclidg. garrison and subs.) nearly 400,000.

and tr., nie catin.u.; p. put.ug. gensors and surpearly goo.co.
Prahran, c., Victora adjoing, Meibourne, p. 30,000.
Prahran, c., Victora adjoing, Meibourne, p. 30,000.
Prahran, c., victora adjoing, Meibourne, p. 30,000.
Wisconsin, U.S.A., p. 4,847
Prato, c., n. Fiorence, Italy; mediæval castle and
fortilins, woollen nuanuf., p. 28,314. [nr Königsberg.
Pregel, R., E. Pruss, Rows (125 m) to Frisches Hafl,
Prenzlau, c. on Lower Ucker Lake, nr, St.ttin, Pruss,
undust., p. 27,124. industl., p. 21,124. Perau, / on R. Becswa, nr. Olmütz, Moravia, Austria

Hungary: manuf.: p. 18,125. Formerly hdqrs. of the Moravian Brethren.

the Moravian Brethren.

Prescot, firmer can. Hungary). (See Pozsony.)

Prescot, firmer can. Hungary). (See Pozsony.)

Prescot, firmer can. Hungary). (See Pozsony.)

Prescot, for the firmer can. Liverpool;

watchmike, i.p. 8154.

Prescot, sort on K. St. Lawrence, Ontario, Can. i.p.

Presceley Mins., N.E. Pensbrokesh., Wales; six.

Presgal Isle, t. Maine, U.S.A., in Arostock co; P.

Presteigne, mkt. t. on R. Lugge, Radnorsh., Wales; p. 2.783. Lancs, Eug.; p. 17.1719. Prestoo, cotton mftg. t. and port on R. Ribide, Prestoopans, cst. t. nr. Edmburgh, Haddingtonsh., Scotl.: here in 1745 "Bomne Prince Charlle" defeated British; p. 1,963. Prestwich, industri. t. nr. Manchester; S. B. Lancash., Pretoria, cap. Transval Col. Brit. S. Africa; fine parity. bdgs., wide boulevards; impt. t. centre; p. 12000. [gd. shipg. tr.: D. 18.000. party, bogs, wide boutevards; impt. t. centre; p. 12,000.
Prevesa, fort. t. on G. of Arta, European Turkey; Pribylov Isla., sml. Alaskan grp. in Behring Sea; scal

Printy Isla., since Albasan grp. in Destring Sea; seen fishg, centre.
Prilust, t. in Poltava govt., Russ., industri., and Connact;
Primorak, on Littoral Province, Asiatic Russ.; extends from Corea N. to the Arctic Oc.; area 730,000 cg. m., p. 114,000. Cap. Nikolaefsk.
Prince Albert, drv. and t. Cape Col., Brit. S. Africa;
N. of Gt. Zwatte Berge; p. (of du't), 9,120.
Prince Albert Land, dist. Brit. N. America, bordg. on Arctic Ocean.

N. of Gt. Zwarte Berge; p. (of div.) 9, 250.

Prince Albert Land, date. Brit. N. Atterica, bordg.
on Arctic Ocean.

Prince Edward 181, *prov. Can.; area 2, 184 sq. m.;
p. 105,000; darying, fishery, and manuf.; much
forest land. Cajt. Charlottetown.

Prince Rupert, c. of British Columbia and Pacific port
of the Grand Trunk Pacific Railway, p. 5,000.

Prince's Isls., Sea of Marmora, 15 m. S.E. of Constantinople; the anc. Demonest; p. 10,000.

Prince's Isls., or Principe, sur. Portuguese *tcl. m.
Bight of Brafta, W. Africa. [Eng.; p. 2,648.

Princes Charlotte Bay, *mte N.E. ext., N.S.W.

Princeton, c. Gibson co., Indiana, U.S.A.; undustrl.;
p. 7,548; also bor. Mersey co., New Jersey, U.S.A.;
seat of miversity; p. 4,650; also t. Bureau co.,
Illinois, U.S.A.; undustrl.; p. 4,285.

Prince William Sound, bay on S. cst., Alaska.

Prinzen, Portuguese *tcl. un Gulf of Gunnea; p. 3,415.

Cap. San Antonio.

Pripetta, R. in grovt. Minsk, Russ., trib. (350 in.) of R.

Prishtina, or Pristina, t. in Korsovoviayet, European
Turkey, on R. Slimitza; many mosque; sugar and

Turkey, on R. Slimitza; many mosques; sugar and coffee tr. ; p. 21,000.

Prisrend, t. in Albania; t. on R. Drin, European Turkey, in Kossovo vilayet; manuf. and comincl.; Turkey, in Kossovo vilayet; manut, and coninct; p. 34.654.
Privas, A. nr. Valence, dep. Ardèche, France; p. Prizzi, A. nr. Palermo, Sicily, Italy; manuf., p. 12,106.
Prievalast, dist. A. prov. Semryechensk, Russn.-Turkestan, nr. 1... Issyk-Kul; p. 10,416; good local tr. Procida, é.d. at N.W. extrem. Bay of Naples, Italy, a. m. long; the anc. Prochyta, p. 14,120; also fort.

t. on same, p. 4,118.

Prome, asst. in Pegu div. Lower Burma, area 2,914
sq m., p. 365,000; chf. t. P. on Irrawaddy R., p. 7 30,560. [17,560. Proskurov, t. on R. Bug, Podolia, Russ.; manuf., p. Prosna, R., trib. (120 in ) of R. Warthe, foring, part of bdy. betwin. Pruss and Prussn. Poland.

bdy, betwn, Pruss and Prussn. Poland.
Prospect, A. in S. Australia, subin. to Adelaide, p. 4, 124.
Prosenitz, manuf. I. in plann of Hamna, Moravia,
Austra: match-making, brewing, malt and sugar
industries, geece breeding, p. 27, 500.
Provence, old maritime prov. S. E. France; now deps.
Var. Basses-Alpes, Bouches-du-Rhône, and part of

Providence, c, at head of Narragansett B., Rhode Isl., U.S.A.; impt. manut. and educatt institus, seat of Brown University, gt. distrib. centre for New England, p. 225,840.

Provincetown, v.t. on Cape Cod, Mass, U.S.A., p. Provins, t. nr. Melun, dept. Seine-et-Marne, France; anc. ramparts, fine old ch., p. 7,820.
Provo, c. at base of Wasatch mins., Utah, U.S.A., nr. ahore of Utah Lake; p. 6,618.

Provo, c. at base of Wasatch unins, Utah, U.S.A., nr. shore of Utah Lake: p. 6,618.

Prussia, *tags.dom and princ. st. of Gern. Empire, bordering on the Baltic, Denmark, and N. Sea, area 134,505 sq. m.: largely high moordand, with much forest land and considerable expanses of bog, great mineral wealth, flourable, agr. and many and extensive manuf., p. 40,165,000 (1910), cap. Berlin (p.v.).

Pruth, R. flowing (35 m.) betwn. Roumania and Bessarabla from the Carpathian mtns. to the Black S.

Przemyal, fort. t. in Austrian Galicia; mchy. and other manus., timber and corn tr., p. (includg. garrison of

Paiol, R. Russ., flows (300 m.) to the Dnieper at

Paiol, K. Russ., flows (300 m.) to the Lineper at Krementchur.

Pakov, grut. N. W. Russ., S. of St. Petersburg, area 17,050 sd. m.; agr. and dairy fing., p. 1,250,000, largely peasant proprietary; cap. P., t. on Vellkaya R.; flax tr., p. 3,460. Pudaey, mfg. t. ur. Bradford, W.R. Yorks, Eng., p. Pudukattai, or Pudukota, nat. st. S. India, sub. to Madras, area 1,101 sq. m., p. 386,420; cap. P., t., p. 17,420.

Madras, area 1, 100 sq. m., p. 300, 200, 100, 117, 420.

Puebla, st. Mexico, area 12, 207 q. m., p. 1, 108, 054; agr., coffee, and sugar growing; cap. P., one of the oldest and most taipt, c.'s of Mexico, alt. 7, 137 ft.; great tr., p. 93, 640; also f. Majorca isl., 59aln, p. 5, 062.

Limeling centre; p. 44, 395.

Pueblo, c. on Arkansas R., Colorado, U.S.A.; great Pueblo Nuevo del Mar, 154. on the Mediterraneas, Valencia, nove. Sount: summer rest.; p. 13, 860.

Valencia, prov. Spain; summer rest.; p. 13.850.
Puentearas, 7. on R. Tea, prov. Pontevetira, Spain,
nr. Viço, m vine-growe, dist.; porcelain manuf.;
ruinied castle of Sobroso; p. 13.250.
Puente Genil, 7. on R. Cenil, Cordoba prov., Spain;

Puente Genil, † on K. Genil, Coradas prov., Spain, olive groves; p. 12,000.
Puerto Bello, spr. ur. Panama, Colombia, p. 2,960.
Puerto Bobolio, spr. Venezuela, on the Caribbean S., nr. Valencia; large exports; p. 154,68
Puerto de Santa Maria, spr. on R. Guadalete, Cadiz, Spain; wine tr., glass manuf.; p. 21,052.
Puerto Principe, interior t. prov. Canaguey, Cuba; founded by Velasquez, Columbus's lieutemant in verse in ea. 866.

founded by Velasquez, Columbia's lieutenant in 1915; p. 25,806. 1915; p. 25,806. Puerio Real, 34. Spain, on B. of Cadiz, N. of San Fernando; sunimer rest, wine and oil it; p. 10,6181 Pukekoke, c. nr. Auckland c., New Zealand, p. (6181)

3 480.

Puket, or Pongka, cap. isl. Junkseylon, and chf. Siamese pt. on Malay Pon., W. cst.; tin mines; p.

Saintese pt. on Malay Pen., W. Cst.; in mines; p. 20,550.
Pulaskl, f. nr. Columbia, Giles co., Tennessee, p. 3,869.
Pulicat, f. on P. Lake, Madras, India, p. 6,246.
Pulkowo, or Pulkowa, vd. nr. St. Petersburg, Russ, seat of the Imperial Observatory.
Pulsmitz, industl. f. nr. Dresden, Saxony, p. 3,856.
Pulkeney Town, Cattliness, Scotl., part of the burg's of Wick, p. 5,360.
Pultask, f. Russin. Poland, govt. Warsaw; copper wks, textile lactories; p. 18,468.
Puna, bleak and uninhabited fateeus of Peru and Bolivia, alt. 12,000 to 18,000 ft. [local tr.; p. 8,600.
Punganur, f. m Arcot div., Madras Pers., India; gd. Punjab, The, prov. N.W. Brit. India; occupies the N.W. angle of the northern plan of India; total area, 97,209 sq. in. p. albout 20,000,000. The divisits of Delhi, Jullundur, Lahore, Kawalpindi, Deralat, and Peshawar, and all the dists, of these, together with the varous nat. states, are death with together with the various nat. states, are dealt with alphabetically.

Puno, dep. Peru; area 30,365 sq. ni., p. 270,640; cap. P., t. bordg on L. Titicata; alt. 12,870 ft., p. 5,240. Punta Arenas, t. in Magallanes, Club; gd. tr.; p.

E.410. Durksutawney, bor. Penn. U.S.A., Jefferson co., p. Purbeck, Isle of, pra. in S.E. Dorset, 12 nn. by 7 m. Purl, dist. Olissa, div. Bengal, Brit. India, area 2,473 50, m., p. 1,000,000. This dist, has suffered dreadfully from fannue and drought. Cap. Puri, or Jagannath

(q.v.).

(2.0). Purmerend, t. nr. Amsterdam, North Hollaud, p. 5,640. Purmen, or Purniah, dist. in Bhagalpur div. Bengal, Brit India, area, 4,993 sq. m., p. 1,880,000. Cap P. on

nrit mula, area, 4,993 S.; m., p. 1,800,000. Cap r. o. a., R. Saura, p. 14,500. Purnila, t. hdqrs. Manbhum dist., Bengal, Brit. Inda, Purus, K. of Peru, trib. (1,400 m.) of R. Amazon. Pushkar, t. and pl. of pilgrimage, Ajmere-Merwara dist, Raphutana, India; Brahman temple, p. 10,420. Puteaux, vtl. and residtl. dist., on R. Seine, nr. Paris, Venter College, 10, 100 m.

France, p. 16,142.
Putignano, t. in prov. Barl, Italy, industri, p. 15,140.
Putivi.t. on R. Sem,govi. Kursk, Russ., manuf., p. 13, 134.

Putlam, £ in dist. same name, W. cst. Ceylon, p. 5,245.
Putnam, £. in Windham co., Connecticut, U.S.A.,
thrive, namuss, p. 7,264.
Putney, etc., in bor, of Wandsworth, Surrey, Eng., a
S.W. residit and industri. Thames-side qr. of
London, p. 28,245.
Putrid Sea, or Guli of Siwash, inlet of Sea of Azov.
Putten, industri. £. nr. Harderwick, Gelderland,
Holland, n. 5,622.
Amazon. Putten, industri. l. nr. Harderwick, Gelderland, Holland, p. 5,642. Marzon. Putumayo, or Ica, R. of Eucador, tril, (yoo in.) of R. Puy-de-Dôme, pl. of the Auvergne Mins., France, alt. 4,856 ft.; also dept. France, watered by R. Allier, area 3,000 sq. m., p. (decrease, ) 509,000; agr., vineyds. Cap, Clermont-Ferrand. industry, p. 22,340.

Cap. Clermont-Ferrand. [industry, p. 22,340.]
Puy, Le, cap. Haute Loire dep., France; lace-make, Pwilheli, spt., wat. pl. and bor. Carnarvon, N. Wales,

p. 3.846. [City; 35 m. long. Pyramid L., Western Nevada, U.S.A., ir. Carson Pyramid Peak, a summit of the Elk Mins., Colorado, U.S.A., alt. 13,885 it.

U.S.A., all. 13.005 it. Pyranes, The, range of mins, in S.W. Europe, dividing France from the Iberian penns, 270m. long, highest peak Pr. Nethou, or Maladette (p...); also name of intn. range ir, Melbrurne, Victoria. Pyrénées, Basses, dep. S.W. France, area 2.978 sq. m., mainly agr. and live-stock rearg., p. 423.416. Cap.

Pau (q.v.)

Pau (g.v.)
Pyrénées, Hautes, dep. S. France, area 1,700 sq. m., agr., vnes, nuis, investock, marble quarries; p. arg., 165. Cap. Tarles (g.v.).
Pyrénées-Orientales, dep. S. France, washed by Mediterranean, area 1,509 sq. m., wheat, wine, silk-wonn culture, stock-rearing. Cap. Perpugnal (g.v.).
Pyrgos, L m Greece, prov. Elis and Achaia, nr. Patras; has suffered from earthquakes; p. 1,2800.
Pyritz, walled L (with towers) in Poinerania prov., Prussia, nr. Stettin; good grain dist., ; p. 8,500.
Pyrmont, L nr. Hanover, Waldeck, G. rmy; numeral springs; p. 1,869; also sub, Sydney, N.S.W.; stone quarries

Quackenbrück, & Osnabrück dist., Hanover, nr.

Essen, p. 4.240.

Quaggy, R. Kent, Eng., flows (10 m.) to join R. Ravensbourne (trub. Thames) at Lewisham.

Quakerton, bor. Penn., U.S.A., 35 m. N. Philadelphia,

Quagerron, oor. Feith, O.S.A., 35 in. N. Finaceljina, p. 2,864.
Quang-Ping, c. Pe-ch.-li prov., China, p. 15,600; also c. Koei-Choo prov., China, nr. Koei-Yang, p. 18,480.
Quang-Si or Kwang-Si, prov. S. China, borderg. on Tonquin, area 78,250 sq. m., p. 5,250,000, cap. Khing-Yuani also c. Kiang-Si prov., China, nr. Yuu-nan, p. 30,500.

Quang-Tong or Qwang-Tung, maritime prov. in S. of China, include. Haman Isl., and containg the cap Canton, p. 30,000,000.

Quantampo, t. in Gyam, Upper Gunnea, p. 15,000; impt. tr. centre.

Quantock Hills, range S. of Bridgewater Bay,

Somersetsh., Eng., highest pt., 1,262 ft. Qu'Appelle, R., Assanboia, Can., trib. (300 m.) on R. Assiniboine

Quaregnon, f. in Hainault prov., Belgium, in Mons colly, dist., ironwks, and tobacco factories, p. Mons colly, dist., ironwks, and tobicco factories, p. 16,845.

Health rest, res. p. 1,145.

Quarndon, vil. nr. Derby, Eng., medicul. spring and Quarnero, G. of, Adrianc Sea, between Hungarian cst. and Illyria.

Quarouble, industri. l. nr. Valenclennes, dep., Nord, Quarri, l. in Sokoto, Soudan, Centri. Africa, p. 6,438.

Quarry Bank, mtg. l. in Staffs, Eng., adjoing. Dudley, b. 7,304.

Quartre Ironworks and Darngaber, industri. dist. nr. Hamilton Lanarksli., Scot. p. 1,004.

Quarto, R., prov. Cordova (80 in.), Argentina: also industri. t. nr. Caghan, Sardinia, Italy, p. 7,085.

Quarto, G. of, arm of the G. of Cagliari, Sardinia, Quathlamba, Kathlamba, or Drakenberg Mins., range betwn. Basutoland and Natal, Brit. S. Africa, alt. 8,000 to 10,000 ft.

Quatre Braa, nr. Waterloo, S. Brabant, Beighum, battle betwn. Wellington and Ney, June 16, 1815. Queanbeyan, £. on Murrumbidgee R., Murray co., N.S.W., p. (dist.) 4,246. Quebec, prov. Canada, Brit. N. America, N. of New Brunswick and the U.S.A., area 339,360 sq. m., p. 1,750,001 agr. dairyg., nuitg., fishg.; cap. Q. c., con R. St. Lawrence, fine harb., hand-one govt. bidgn., p. 79,000. Largest c. Montreal (Q. 72), Counchel cap. p. 79,000. Largest c. Montreal (q, v), commcl. cap. Canada.

Queda, st. Lower Siam, on W. cst. Malay Penins., area 4,500 sq. m., p. 22,000; cap. Q. on B. of Bengal,

p. 4.240. Quedinburg, A at foot of Hartz Mtns., Prussn. Saxony; famous for nurseries and seed farms; abbey ch.;

Queenborough, c. on R. Swale, Isle of Sheppey, Kent Eng.; steamer port for cross-Channel passengers and mails to Flushing; p. 2,468. Queen Charlotte's Isls, group N. of Vancouver Isl, of coast of Brt. Columbia, Graham Isl. and Moresby

Isl. are the chief; p. 2,000 (including 700 native Indians). Valuable hanbut fishing industry.

Queen Charlotte Sound, strait separating Vancouver Isl. from the Brit. manuland, a continuation of John-

Isl. from the Brit. mainland, a continuation of Johnstone Strait.

Johnstone Strait.

Ling. p. 6, 122.

Johnstone Strait.

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Cap. Brishane (q v.).
Queenstown, spt. co. Cork, Ireland; fine harbour and
ducks; p. 0,000. Also t. in Cape Colony, Brit. S.
Atrica, in the Great Ker R. valley; prosperous agr.
region; p. 3,800. Also sin. t. on L. Wakiripu, New
Zealand.
17,750,000: cap. Quel Yang.
Quel-Chow, or Koel-Chao, prev. S. W. China, p.
Quelimane, or Sio Martinho de Quelimane, c. in
Zam'eza dist., Portugueso E. Alrica; tr. in rubber,
almouds. copra. coffee, etc.; n. 480.

almonds, copra, coffee, etc.; p. 3,480. Quelpart, or Chai-ju, 2./. in the Yelicw Sea, 60 m. S.

Quelpart, or Chaj-ju, 1-/. in the Yelicw Sea, 60 m. S. of Corea (40 iii. by 7 m.); used as a penal settlement; agr. and pearl-hishing (monopolised by the Jays.); p. 100,000. Cap. Chu-song.
Querétaro-Arteaga, 3/. Mexico, area 3.558 sq. m.; cereals, trut, and minerals; p. 330,000. Cap. Querétaro, c. at 6.504 all., 134 m. N.W. of the c. of Mexico; fine govt. bldgs. and cathedral. Here Emperor Maximilian was executed; p. 36,500. Querfurt, /. iir. Merseburg, Prussian Saxony, on R. Oueme n. 6,120.

Querne p. 6,120.
Querne p. 6,120.
Querne p. 6,120.
Querne p. 6,120.
Quesada, industri. t. nr. Jaen, Spain, p. 7,018.
Qu saoy, Le, fortid. t. nr. Valsenciennes, dep. Nord, France, p. 4,228 (industri. ; p. 5,165, Quesnoy-sur-Deule, t. nr. Lille, dep. Nord, France; Querta, exist and d. Brit. Baluchistan, at end of Bolan Pass. on read to Knadsher. Military cantoneers.

Quetta, exs and c. Brit. Baluchistan, at end of Bolan Pass, on road to Kandahar. Military cantounent occupies valley so m. by 5 m.; and the place is the N.W. terminus of the railway to Afghanistan. Quezaltenango, c. of Guatemala, on slope of Cerro Quemado volcano; centre of trade for western port of the Republic; p. 28,600. Quiberon, c. on Q. Bay, nr. Lorient Morbilian dep., France; p. 3,436. [thruy tr.; p. 9,45,01bor, 6. Venezuela, 40 m. S.S.W. Barquesimeto; Quicamao, c. nr. Camos, prov. Rio de Janeiro, Brazils; industri. : p. nr. 28.

Quicamao, A. nr. Camos, prov. Rio de Janeiro, Brazile, industri, p. 10,488.
Quickmere, mitg. A. in W.R. Yorks, Eng., on Lancs, border, 39m. E. of Oldham, p. 4,284.
Quievrain, industri. A. ni colly. dist. nr. Mons, dep. Hainaut, Belgunn, p. 3,964.
Quillandi, A. in Malabar dist., Madrass India; active Quillano, A. nr. Savona, Genoa prov Italy; industri.

Quilimane, t. in Mozambique, S.E. Africa, on R. Q., one of the mouths of the Zambesi; Portuguese penal one of the mouths of the Zambesi; Portuguese panal settlessent, p. 6,250.

Oullleenuf, v. 6, on R. Seine, dep. Eure, France; Oullleenuf, v. 6, on R. Seine, dep. Eure, France; Oullleenuf, v. 6, on R. Seine, dep. Eure, France; Oullee, p. 13,682.

Quidos, or Kluvah, r. on ist. off E. est. Airca, belong-suiton, r. on Malashar est., Travancore st., Madras, Indua; gd. tr., p. 10,180; iorniy. Bert. nul. cantonnut.; now hdqrs. Travancore army.

Quimper, r. (fortid.) dep. Funstère, France, nr. Brest; pilchard fishy, p. 16,184; r. quimper, g. (fortid.) dep. Funstère, France, nr. Brest; pilchard fishy, p. 16,184; r. quimper, r. (muster, p. 7,243; Quincy, c. on Mississippi R., Adams co., Illinois, U.S.A.; nannf. and large R. trade, p. 38,034 also c. Norfolk co., Mass., U.S.A.; boor and shoe making, marble quarries, p. 37,044.

marble quarries, p. 37,024.

Ouinhon, £ in Annaui, Indo-China; gd. tr., p. 8,482.

Quintana, industri. £ nr. Badajoe, Spain, p. 5,008.

Quintanar de la Orden, £ nr. Belmonte prov., Poledo, p. 8,148.

Quintin, A. nr. St. Brieuc, dep. Côtes-du-Nord,
Quinto, R. Argentina, flows 250 m. S.E. from the
Sierra de San Luis Mus., and becomes lost in a

Quinzano, t. nr. Brescia, Italy; gd. local tr., p. 5,464. Quirindi, t. N.S.W., nr. the Liverpool range in Buck-

Quirinia, I. N.S. W., nr. the Liverpool range in Buck-land co., p. (dist.) 4890.
Osiringea, cst. f. li. Asrica, N. of Zanzibar, p. 4,122.
Outringea, ruined auc. f. on R. Montagua, nr. 1sabal,
Guatemala; pyramid, etc.
Outstello, f. on R. Sectha, prov. Mantua, Italy; here
the Imperialists defeated French and Sardinans,

the Imperaists defeated French and Sardmans, 1734. P. (commune) 11.540.
Quito, cap c. Ecuador, in the Andes, 15 m. S. of the Equator; alt 9,400 ft.; rubber and hide export, carpet, leather, and other manuf., p. 80,000.
Quitta, or Prince's Town (British) New Guinea, Gold Coast, W Africa, p. 5,614.
Quoradon, or Quora, L. in huating dist. nr. Leicester, Quorra, K. of Africa; one of the names given to the R. Niger (g.v.) below Timbuctoo.
Qwarken, Qestra and Vestra, straits in the Gulf of Bothnia of the Swedish coast.

Raab, royal free c. of Hungary, at junctn. of R. Raab with an arm of R. Danube; cathedl., impt. tr., p. 24,600; also R. of Styria and Hungary, flows [180 m.] to Danube at R. c. Raaite, c. nr Zwolle, Overyssel, Holland; industri.,

p. 5.043. R. and sr. censer Gando, en R. Niger, Africa; Rabastan, s.c. E. of Skye, Inversess-sh., Scotl., 12 m. long, 31 m. wide
Rabastan, c on R. Tara, dep. Tarn, France, p. 5.84.
Rabast, or New Sallee, spt. Morocco, at mth of Bu Reyreg; open to foreign tr.; leather and carpet manuf., p. 30.000.
Rabba, t. and sr. censer Gando, en R. Niger, Africa; Racaimuto, t. ia Girgeata prov., Sicily; industri, p. 14.129.

Racamuto, t. as Gurgana prov., Sichy; industri., p. 14,129.
Racconigi, t. nr. Turm, Italy; local tr., p. 9,826.
Racame, c. of R. co., on L. Michigan, Wisconsin, U.S. A.; carriage and waggon works, p. 38,002.
Radautz, t. m. Bukovina duchy, Austria, nr. Sereth; govt. stud iarm, p. 15,264.
Radcliffe, t. nr. Manchester, Lancs, Eng.; paper mkg., dye works, foundries, p. 26,085.

Radeberg, t. on Grosse Röder, nr. Dresden, Saxony; glass works, p. 15,60c.
Radevormwald, industri. t. nr. Barmen, Prussia, p. Radhanpur, nat. st. Bombay, Inda; area 150 oq m., p. 100,500; cap. R., p. 15,108.
Radiatsh, t. in govt. Poltava, Russ.; industri., p. Radnor, inid, co. N. Wales; area 471 sq. m., agr., p. 22,595; cap. New Radnor, anc. bor. 6s m. N. W. of Bristol; largest t. Knighton (4.2.).
Radom, govt. Russn. Poland, adjng. Galicia: area 4,765 sq. m., agr., mining and live stock raising, p. 850,000; cap. Re. t. 5g m. from Warsaw, p. 31,500.
Radomak, t. nr. Kalisz, Foland; industri., p. 11,186.

Radomyal, t. on Petereff R., Kleff prov., Russ.; tameries and flour mills, p. so,178. [p. 267s. Adstock, t. nr. Bristo, Somerset, Eng.; collistries, Raffadail, industri. t. Girgenti prov., Sicily, p. 9,484. Ragatz, wat. 9t. on R. Tamnia, cant. St. Call, Swizidd, hot springs, res. p. 2860; visited by 50,000 persons annually; anc. abbey of Pfaffers, 2,697 ft. above sea. Raglan, vil. nr. Monmouth, Eng.; picturesque ruined castle. castle.

Ragusa, c. Syracuse, Italy, divided into R. Superiore p. (23,500) and R. inferiore (p. 8,640); cheese factories; also a c. on the E. cst. of the Adriatic, Dalmatia, Austria; oil, silk, and leather industries, p. (with garrison) 14.000.

Ragusa vecchia, mkt. pl. in govt. dist. Ragusa. Dalmatia, 6 m. E. of last-mentioned c.; site of anc.

Epidaurum, p. (commune) 11,018. Rahad, R. Abyssinia and Nubia trib. (260 m.) of Blue Nile. [centre, p. 11,424. Rahmaniah, f. nr. Rosetta, Egypt, on R. Nile, tr. Rahon, f. on R. Sutlej, Jalandhar dist., Punjab, India, Nile.

Randa, a on a country jumps, p. 12,50.
Rahway, c. on R. Ro, Union co., New Jersey, U.S.A., residti, for New Ye & business men, p. 8,120.
Raiatea, one of the Society Isls., largest of the Leeward grp., 730 m. N.W. Talui.
Rai Bareli, dist, in Lucknow dlv., Oudh, Brit. India, roc. wheat. opium, p. 1,034,550;

area 1,751 sq. m., nce, wheat, opium, p. 1,034,500; cap, Rai Bareli, t., 48 m. S. E. of Lucknow, p. 13,045, Raichur, c. m. Haidarabad, India, impt. commcl.

centre, p. 22,426. [8,979.

centre, p. 22,425.

Raidrug, industri. L. Bellary dist., Madras, India, p. Raigarh, feudatory st. India. Chhattisgarh div., Centl. Provs., area. 4,86 sq. in., p. 195,500; cap. R., t. (with rly. stn.) in iron ore dist., p. 5,000.

Raikot, t. in Ludhiana dist., Punjab, India, p. 9,824.

Rainfort, industri. L. nr. 5t. Helens, Lancash., Eng., p. 3,503.

[U.S. A., alt. 14,444 ft. Rainfort, mtm. of the Cascade range, Washington, Rainfort, E. and W., colhery dists., nr. Durham, Eng., 1001 D. 6,420.

joint p. 6,420.

Rainy L., on border of Canada and Minnesota, U.S. A., 55 in long, drains by Rainy R. (200 m. long) to the Lake of the Woods,

Raipur, dist. Chhattisgarh div., Centl. Provs., India, area 11,724 sq. nn., p. (decreased by famine) 1,442,890; rice crops and cotton manuf.; cap. R., t., cantonment for wing of Madras native infantry, ruined fort,

oil temples, p. 35,000, [industry, p. 5,124, Raiames, £ nr. Valenciennes, dep. Nord, France, lace Rajamahendri, £ in Godavari dist., Madras, Brit. India, one of the deltas of the G. R.; good tr., railway

bridge of twenty-one spans across river, p. 32,460. Rajapalaiyam, t. in Tunevelli dist., Madras, India,

Rajapalaiyam, A. in Tinnevelli dist., Madras, India, p. 12,544.
Rajapur, A. on R. Junna, Banda dist., N.W. Prova, India, p. 7,804; also t. in Ratnaguri dist., Bombay, India, p. 8,065.
Rajgarh, nat. st. Bhopal Agency, Centl. India; area (with Sutalia) 655 sq. m., p. 120,000; cap. R. (or Biaora), t. p. 6,500.
Rajkot, petty nat. st. Kathiawar, Gujarat div., Bombay, India, area 283 sq. m., p. 6,000; cap. R., t., hdgrs. of the political agt., for Kathiawar.
Rajokahi, des. Geogreeusiya with N. Bengall Bret.

Rajohahi, dev. (co-extensive with N. Bengal) Brit. Judia, area 17 351 34 ..., p. 7,750.000, comprise dists. Rajshali, Durjiling, Dinajjur, Jalpagur, Bogra, Ramgpur, and Patia. Also dist. Kajshali, on N. bank of R. Ganges, area 2,250 34, m., p. nearly 1,500,000; sericulture, liemp-growing; hdgrs. Rampar

Rajpipla, nat. st. betwn. the R.'s Tapti and Nerbudda,

Rajpipla, nat. st. betwn. the R.'s Tapti and Nerbudda, in Gujarat diw., Bomiway, India, area 1,514 sq. m., p. 200,000; ap. Nandod, on R. Karjan, p. 11,130; the hold forfid cap. of Rajpipla is now dismantled. Rajpur, t. in Parganas dist., Bengal, India, p. 11,240. Rajputana, collectin of nat. India states (twonty), and the Britt, dist. of Ajmere Merwara; the various states are given in this "Gazetteer" alphabetically; total area 127,541 sq. m., p. 10,30,000; the agent total area 127,541 sq. m., p. 10,530,000; the agent resules at Mt. Alu: Rajputana was part of the Mogul empire, before its subjugation by the Mahrattas.

Rakka, fort. t. on Lower Niger, W. Africa, p. 11,420; also t. on Euphrates R., Asiatic Turkey, vlayet Haleb, p. 8,146. [manut.; p. 7,018, Raironitz, t. nr. Kladno, Bohemia; portery and paper Raliegh, c. Wake co., N. Carolina, U.S. A.; educati. centre; p. 14,600. [parallel with Radack chn. Rairok, chain of safs. in Marshall grp., Pacific O., Rambervilliera, t. nr. Nancy, dep. Vosges, France, p.

5,382.
Rambouillet, t. nr. Versailles, dep. Seine-et-Oise, France; picturesque anc. chateau, formerly royal;

p. 5,248. Rameswaram, isl. (11 m. long, p. 17, 60), Madura dist, S. India, sep. from mainld, by Panisam chan.; also t. on same, p. 6,245, contg. a great Dravidian temple, one of the Hindu holy places of pligrimage. Ramgarh, t. in Jaipur, Rajpurana, India, p. 11,500. Ramgunga, R. Brit. India, trib. (300 in.) of R. Ganges,

which it joins nr. Cawnpore.

Ramillies, vel. N. Brabant, Belgium, 20 m. S.E. Brus-

seis; Mariborough's gt. victory, 1706.
Ramnad, f. Madura dist., Madras, India, on pen. projectg. towards Kameswaram isl., p. 14,000 mnagar, t. on R. Ganges, adjng. Benares, N.W.

Provs. India, p. 12,100
Rammicu Sarat, f. in dist. same name Roumania; scene of several battles; p. 13,500.
Rammicu Valca, f. on R. Oli, Valcea dist., Roumania; thernal springs; the reputed anc. Castra mania; the reputed anc. Castra Trajani; p. 8,018,

Rampur, nat. state Rohilkhand, N.W. Provs., India, area 945 Sq. in., p. 532,000; cap. R., t on R. Kosila; pottery and damask manuf.; p. 78,2r6.
Rampur Boalja, f. on R. Ganges; admin. hdqrs. of Rajshahi dist., Bengal, India; silk industries; govt.

college; suifered from earthquake, 1897; p. 21,500.
Ramri, st. in Arakan, off est. Lower Burma, 50 m.

long; also t. on same, p. 3.550.

Ramsbottom, f. in Heywood div., Lancash., Eng., on

Ramspottom, t. in rieywood div., Lancash., Eng., on R. Irwell; calico printy, etc.; p. 15.149.
Ramsbury, par. on R. Kennet, Wilts., Eng., 2,369.
Ramsey, met. t. Hunts., Eng., p. 5,369; also spt. on N.E. est. Isle of Man, p. 4,124. [Engl., res. p. 29,669.
Ramsgate, wat. pl. on b. est. Isle of Thanet, Kent, Ramtek, t. in Nagpur dist., Centrl. Provs., India, p.

8,014.

Ranaghat, t. in Nadiya dist., Bengal, India, p. 9,085.

Rancagua, c. nr. Santago, Chile, p. (abt.) 8,000.

Ranchi, t. in Lohardaga dist., Chota Nagpur div.,

Bengal, India, p. 21,500.

Rand, gold-inming dr.t. Transvall Colony, Brit. S.

Africa. (See Witwatersrand)

Rand, gold-mining dist. I ransvala Colony, Brit. S. Africa. (See Witwestersrand)
Randazzo, f. nr. Mt. Etna, Latania, Sicily, 2,474 ft above sea level; old ducal palace; p. 8,546.
Randers, f. nr. Aarhus, Jutland, Deimark; mediæval inonastery, exports dury prod.; p. 22,176. [5,149.
Randwick, vib. of Sydney, N.S.W., p. 27,560.
Ranea, R. Sweden, flow; (130 in ) to G. of Bothnia.
Ranenburg, f. nr. Ryazu govt., kuss.; gardening and grain trade; p. 18,546.
Rangon, dist. Lower Burma, Pegu div.; area, 4,296.
sq. in., p. 450,000. Also c. on Hishing R., cap. or Lower Burma; great tr. and many impt. manuf; two cathedrals, many mosques, templess, and pagodas; p. (with Brit mil. cantomists, noariy 350,000.
Rangpur, sist. Rajshalii div. Bengal, India, area 3,468 sq. m.; rice and jute ciops; cap R., c. on R. Ghagiat, damaged seriously by earthquake in 1897, p. 15,500.

p. 15.200. Ranbennur, f. Dharwar dist., Bombay, India, p 10.846. Raniganj, t. on Damodar R., Birdwan div., Bengal, [India, permt. p. 6,014. p. 10,945. [India, permt. p. 6,014. Ranikhet, health resort, Kum2on dist., N.W. Provs., Rani-nur, famous reck-cave, Khandgiri Hill, Puri

Mani-nur, tamous reck-cave, Khandgri Hill, Puri dist. Orsas, India.

Rannook, Loch, Perths., Scotl.; 9 m. long, r m. wide, drained to R. Tay.

Ransart, vvl. nr. Charlerol, Hamault, Beigrun; Ransllo, where rezero on G. of R., Genoa, L. Lguria, Irally; mediaval castle; lace-making, olive-growing; n. formuniant to fee.

p. (commune), ro.650.

Rappahannock, A. Virginia, U.S.A., flows 200 m. to

Chesapeake B., S. of the mouth of the Potomac

Rappollsweiler, £ nr. Schleitstadt, Abace-Lorraine, Germany; walled; known as "the pipers town"; p. 6,142. Raratonga, one of the Cook Isls., Pacific, 53m. round, Raritan, £ (p. 3,048) on R. R., flows /75 m.) in New Jersey, U.S.A., to Perth Amboy on R. Bay, S. of

Staten Isl.

Statem 184.
Ras-al-Had, C. E. extrem. Arabia. [p. 10, 120.
Ras-el-Khyma, fortfd. A on Persian G., Arabia, p.
Rasgrad, nr. Rustchuk, Bulgaria. on R. Ak-Lom;
battles between Russians and Turks, 1810 and 1877;

p. 13,424.

Ras Mohammed, southernmost point, Sinal Penin.

Raspopina, vil. in prov. Don Cossacks, nr. Tsaritsyn,

Raspojina, 27c. in prov. Dou Cossacks, in: 1 samsyn, on R. Don, com and cattle trade; p. 16,494.
Rasra, t. ir Ballia dist., N. W. Provs., india; p. 12,500.
Rassein, L. in the Dobrudja, Roumania, 25 m. long.
Rastatt, t. nr. Carlstuhe, Baden, Germany, formerly

torifd; tobacco factories, etc.; p. 15,046.
Rastenburg, t. nr. Königsberg, E. Prussia; manuf.; p. 12,042.
[W.R. Yorks, Eng., p. 8.655.
Rastrick, industri. township on R. Calder, nr. Haldar, Rath, & in Hamipur dist. N.W. Provs., India, p.

15,100, Rathenow, mftg. f. on R. Havel, Pruss., p. 23,524.

Ratheale, mkt. f. nr. Limerick, Ireld., p. 25,524.
Rathkeale, mkt. f. nr. Limerick, Ireld., p. 2500.
Rathlin, or Rahery, ssl. off Fair Head, N. of co.
Antinn, Ireld., 5 m. by 1 m. p. 2500.
Rathmines, S. ssl. of Dublin c, Ireland, p. 38,790.
Rathlor, mftg. f. on R. Oder, Silesia, Pruss., nr.
Austrian frontier, p. 26,845.
Ratisbon, busy industi. f. en R. Danube, Upper
Palatinate, Bavaria; Castro Reginum of the Romans,
plus Stamme, &C. p. 48,646.

Falatinate, isavaria; Lastro Regimum of the Romans, glass staming, &C., p. 48,946.

Rat Isls, _krp, in the Aleutian Archipelago.

Ratlam, nat. st. Malwa agoy., Centl. India, area 729 sq. m, p. 90,000; cap. R., t. and ry. jn. Rajputani-Malwa line; opium tr. centre, p. 29,560.

Ratnagiri, dist. Konkan div., Bombay, India, area 3,922 sq. m., p. 1,80,00; fishg, and marritue industries; cap. R., spt. with lighthouse and fort, p. 1,876.

Ratnapura, f. prov. Samaragamuwa, Ceylon; tea-

planig, and precious stone digging, p. 4,100.
Rat Fortage, p. on Raily R., Ontario, Can.; sturgeon fisig, p. 6,20.
Raudaltz, t. on R. Elbe, northa. Bohemia; interestg. clatena of Frince Lobkowitz, with fine art and lit.

clatean of Frince Loddowitz, with miss as Collectins, p 8,124.

Ravana-Hrada, sacred L. at source of R. Sutlej, Ravenhead, L. nr. St. Helen's, Lancash., Eng.; industri, p 6,984.

Ravenna, prov., Emilia, Italy, area 715 sq. m. p. 320,000; Cap R., c. on mardy plann nr. the Adriatic, 45 m. b. of Bologna, catheall, archepiscopal pal, and many fine bidgs, silk worm culture, wine group, lace manuf. n. 70,000. and many his bolgs, suk-worm culture, whe growg, lace manuf, p. 70,000.
Ravensburg, f. nr. Constance, Wurtenburg: flourshg, Ravensthorpe, industri, f. nr. Dewsbury, W.R Yorks, Eng., p. 5,824.
Raver, f. Khandesh dist, Bengal, India, p. 7,642.
Ravi, R. of the Punjab, India, trib. (450 m.) of the

Chonab.

Rawaipindi, div. (area 20,738 sq m., p. 3,750,000) of N. Punjab. India, between Lahore and Feshawar.

Also dist. of same, W. of R Jehlam, area 4,844 sq. m.; mauly agr., p. (decreasg.), 780,000. Also c. (with mil. cantonint), cap. of above. on R. Leh; fortid, active tr. with Kashmir; p. 7,5000. [p. 3,200.

Rawdon, industri. J. nr. Leeuls, W.R. Yorks, Eng., Paretteen or Passure; J. R. Paretteen Parette, industri

Rawitsch, or Rawicz, t. ar. Posen, Pruss.; industri.; P 14.846. [Eng., p. 17.150. Rawmarsh, inftg. t. nr. Rotherham, W.R., Yorks, Rawtenstall, industri. bor. nr. Blackburn, Lancs.,

Eng.: p. 30.516. [N.S.W.: p. 1.243. Raymond Terrace, \( \ell \). on Hunter R., co. Gloucester, Razgrad, \( \ell \). on the Ak-lom R. Bulgara. (See

Razgrad, 2. on the Aktion K., Bulgara. (See Razgrad, 2. on the Aktion K., Bulgara. (See Razgrad). R4, or Rhe, 62. of W. cst. Charente-Inferieure prov., France, opp. Rochelle; 18 m. by 4 m.; salt manuf.; p. t4.co. Cli. pl. St. Martin. (Rochford. R. a., K. Shropsh., Eng., flows 120 m.) to R. Teme, at Reading, 50r. on R. Kennet, Berks, Eng.; biscub, and other manuf.; seed-growg, and mkt. gardng.:

p. 75,214; also c. in Berks, co., Penn., U.S.A., on Schuylkill R.; ironworks; p. 96 o71; also t. in Middlesex co., Mass, n.r. Roston, U.S.A.; p. 5,467.

Recanatt, c. nr. Loreto, M., Lerata, Italy; industri.; p. (comunal) 20,682.

Recife, 59t. Brazil. (See Pernambuco.)

Recklinghausen, t. nr. Dor.mund, Westphalia, Pruss.; collieries, quarries, and manuf.; p. 42,648.

Recoara, f. nr. Verona, Vicenza prov., Italy; industri.; p. 6,022; pop. wat. pl. [Shrewslury R.; p. 5,897.

Redbank, f. Moninouth co., New Jerscy, U.S.A., on Red Bluff, vil. on Sacramento R., Tehana co., Callfornia, U.S.A.; p. 3,043. [Eng.; p. 10,509.

Reddank, t. Moninouth co., New Jerscy, U.S.A., on Reddish, mig. t. nr. Stockport Lancs, Eng.; p. 10,509.

Reddar, t. and c., wat. M. Cleveland div. N.R. Yorks, Reddish, mig. t. nr. Stockport Lancs, Eng.; p. 9,000.

Reddiftch, t. co. Worcester Eng.; needle and fish-hook manuf.; p. 13 d59.

Redder, R. Northumberlund co., Eng., trib. (21 m.) of R. Tyne.

Red, Northumberlund co., Eng., trib. (22 m.) of R. Tyne.

Red, Jacket, t. on C. P. Ry., Asumboia, Can.; p. 2,496.

Redon, t. on R. Vlianii, dep. Ille-et-Vlaini, France; coasting tr. with Nantes and Brest, manuf. emery powder; fine old abley ch.; p. 5,746.

Redonda, t.t. in Leeward grp., betwn. Montserrat Redondela, t. on the Vigo estuary. Pontevedra prov., Spann; old feudal castles; p. 11,000.

Red River, U.S.A., rvib. Mississippi (1,600 m.), flows from New Mexico through the Staked Plain.

Red River of the North, thows 650 m., separatng. Dakota and Minnesota, U.S.A., to Assunboine, Manutoba, C.m..

Redonth, mkt. New Cornwall, Eng.; tin-mine dist.

Manitoba, Can.

Meditin, Mit. 1., Cornwall, Eng.; tin-mine dist., Red Sea, or Arabian Gulf, arm of the sea separating Abysima, Nubia, and Egypt from Arabia, and continuing through the Suez Canal to the Mediterraneum. Communicates; with the Indian Ocean byte Straits of Babei-Mandeb. Length 1,400 m., greatest width 290 in.

Red Wing. 6. Minnesota, U.S.A., on the Mississippi R. in Goodhue co., at head of L. Pepin; flour mills, grain tr. p. 8.048.

grain tr., p. 3.048.
Ree, Lough, L. betwn. Roscommon, Longford, and
Westmeath, Ireld., an extensu. of R. Shannon, 17 m. long.

Reefton, ming t. nr. Greymouth, N. Zealand, p. 1,148.
Regalbuto, industri t. in Catana prov., Sicily, p. 11,025.
Regello, 22t. in Val d'Arno, nr. Florence, Italy, p. (communal) 11,540. [Ratisbon. Regello, vst. in Val d'Arno, nr. Florence, Italy, p. (communal) 17,540. [Ratisbon, Regen, R. Bavaria, trib. (68 m.) of R. Danube, at Regensburg, alternative name for Ratisbon (q.v.). Reggio di Calabria, t. on Strats of Messina, at S.W. extrem. Italy; silk and essential oil manuf.; suffered from eatthquake 1783 and 1764; t. q. 47.680. Reggio nell' Emilia, c. nr. Bologna, Italy, cap. Emilia prov.; silk-worm culture, cheev-emkg.; fine Ch. of the Madonna della Ghiera; p. 63,180. Regina, pt. on Wascana Creek, Assimboia, Can., cap. of Sakatechev un; govt blige., p. 31,000. Reglas, sub of Havana. Cuba; furtified, p. 174,400. Reichenbach, i. nr. Zwickau, Saxony, Germy; many mannf. p. 26,400; also industri. t. in Prussii. Silesia, nr. Liegoritz, p. 8,420; also industri. t. in Prussii. Silesia, nr. Liegoritz, p. 8,920.

nr Liegentz, p. 8,012.
Reichenberg, f. in Bohemia, Austria, nr. the Prussn.
and Saxon frontiers; impt. tr. and mftg. centre;

and Saxon tronters; Impt, tr. and mfg. centre; p. 53.487.
Reichenhall, mert. pl., nr. Salzhurg, S. Bohemia; salt Reigate, bor. Surrey; mkt. and residit. A nr. Surrey Hills, p. 28,505
Reikiavik, f. cap. Iceland, on S.W. est., p. 1,424.
Reims, or Rheims, f. on R. Vesle, dep Marne, France: famous Gothic cathed!; champagne centre, cloth factories, woollen industries and tr., dee-works, p. [including garrison] 176,000.

factories, woollen inclustries and tr., dye-works, p. (including garrison) rio,000.

Remedios, \( \ell \). Santa Clara prov., Cuba; gd. cst. tr., Remachild, \( \ell \). R. Disseldorf, Rhenish Pruss.; outery manut. p. 65,000.

[ws., p. (communal) 21,460.

Renaix, \( \ell \). ur. Ghent. Beigium; dye and bleaching Rendaburg, \( \ell \). on R. Eider, Holstein, Pruss.; fortificus. demolished by the Danes in 1852, p. 13,850.

Renfrew, maritime co. W. Scotl., S. of R. Clyde; area 245 Sq. in., agr., mftg., and commcl., p. 314,574; co. t. Renfrew, a burgh of the Kilmarnock grp. nr. R.

Clyde, p. 12,55; chf. industri. centres Paisley and [7,40, erenock (q.w.)]. Rengo, f. nr. Rancagus, Cochagur prov., Chile, p. Rennes, c. nr. Nantes, France; cap. Ille-et-Vilsine dep., France; in dairying and agr. dist., p. 62,50, Renovo, bor. on Susquehanna R., Clinton co., Fenn.,

Renovo, oor, o., Ossaya, U.S.A., p. 4,876. Renton, f. on R. Leven, Dumbartonsh, Scotl., p. 5,472. Reoti, f. nr. Bansdish, Balla dist., N.W. Provs., India, 120,146.

Reoti, f. nr. Bansdish, datas usas., 210,146.
Reotipur, f. Ghazipur dist., N.W. Prova, India, p. 10,068.
Reotipur, f. Ghazipur dist., N.W. Prova, India, p. Republican Fork, or Pawnee R., 17th (150 m) of R. Kansas. Colorado, Nebraska, and Kansas, U.S.A. Repulse Bay, on S. idde of Melville Penin, N. Canada. Requeña, f. in Valencia prov., Spain, on R. Magro; sulphur springs of Puentepodida nr., p. 14,624.
Reath, or Rasht, f. nr. the Caspian, Paria; cap. Ghilad prov.; silkworm culture, p. 9,5450.
Resnia, f. nr. Naples, Italy; industri, and residti, p. (communal) 16,344.

(communal) 16,244. [Hudson Straft, Resolution 1sl., (Brit.) N. of Labrador, at entce, Restigenche, R. Canada, (200 m.) pt. and boundy, btwa. Quebec and New Brunswick, talls into B. of Chaleur at Dalhousie.

Resuttano, f. nr. Caltanisetta, Sicily; industri., p. Resuttano, f. nr. Caltanisetta, Sicily; industri., p. p. 13,386. p. 13,36. [p. 8,124].
Retimo, spi. Creto, N. est., 27 m. E.S. E. Canea, Reunion (formerly Bourbon), French st. Indian Oc., betwn. M turtius and Madagascar; area 1,000 m.

Revelstoke, J. in Truit Lake dist., Brit. Columbia; mining contre, p. 2018. Revere, J. in Suifolk co., Mass., U.S. A., subn to Boston, p. 12,114; also t. on R. Po, in. Mantua, Lombardy, Italy, p. 4,285. Revilla Gigedo, 651. grp. N. Pacific, belong: to Mexico, comprisg. Socorro (or San Tomas) and three scattered

comprisg Socorro (or San Tomas) and three scattered volcanic islets, total area 320 sq. m., uninhabited. Rewa, nat. st. Bagelkhand agency, Centl. India, area 10,000 sq. m., p. 1.600,000; cap. R., t. 131 m. S. of Allahabad, p. 24,118. Rewadanda, t. and spt. Koleba dist., Bombay, India, Rewa Kantha, collectn. of or nat. str., Gujarat div. Bombay, India, area, 4,900 sq. m., p. 470,080 (decreased 35 per cent. by famineh, prin. st., Rajpipla (q. w.). Reward, t. Gurgaon dist., Punjah, Brit. India, impt. tr. centre, turban and brass-ware manuf., p. 28,800. tr. centre, turban and brass-ware manuf., p. 28,800.

Rezé, & adjng. Nantes, Loire-Inférieure dep., France. p. 8,110.

Rezhitsa, industri. 1. govt. Vitebsk, Russ., p. 11,425.

Rheidt, infig. 1. nr. Cologne, Rhenish Pruss., cotton,

s.lk and iron industries, p. 24,124.

Rheine, f. on R. Eins, Westphalia, Germy., jute,

Rheine, t. on R. Eins, Westphalia, Germy., jute, tubacco and cotton factories, p. 10,849.
Rhein-Hessen, W. Prov. Hesse-Darunstadt, Germy.; area 531 sq. m., p. 350,000.
Rheniah Prussia, or the Rhine Province, w.-most prov. Pruss., on both banks of R. Rhine, S. of Holland, area 20,416 sq. m., p. 5,000,000, wine-growg. and mftg.

Rhine, R., rises in Switzld., canton Grisoria, passes through Lake of Constance, skirts Raden, traverses Hesse, Rhenish Pruss., and the Netherlands (800 m.), Hesse, Rhenish Pruss, and the Netherlands (800 m.), flowing to N. Sea by two arms, Oude Rijn, and the Waal (the latter discharg, finally by the Mruse); famous for its beauty, especially betwn. Bonn and Bingen, ch. falls at Schafhausen; once a natural barrier betwn. E. and W. Europe, the Rhine is now spanned by thirty railway bridges, and its navigatn. was declared free in 1869.

Rhode Island, a New England st. of U.S.A., washed by the Atlantic, and surrounded by Mass. and

Connecticut, area 1,250 sq. m., divided by Narra-gansett B., with many isls., largest being that from which the st. takes its name, p. 450,000; cap.

which the st. takes its name, p. 450,000; cap. Providence (g.w.). Rhodes, sst. off S.W. cst. Asia Minor, in the Ægeat S., area \$55 sq. m., p. 30,000; cap. R., spt. with gd. tr., p. 10,000, mainly Greek Christians. Rhodesda, local name of Brit. Zambesia; North Rhodesla forms portn. of Brit. Centl. Africa, and South Rhodesia comprises the section of Brit. S. Af. stretching betwin. the Zambesi and the Limpopo, and from Bechiumaliand to Portuguess E. Af., thus includg, the former nat. terrs. Mashonaland and Matabeleland. Total area 450,000 sq. m., and pop. 1,750,000; cap. Salisbury (g.w.); gt. minl. wealth and agr. resources.

1,795,000; Cap. Sainbury (g.v.); gt. inin. weath and agr. resources.
Rhön Gebirge, min. grp. Thuringna, Germy., highest pk., 3,00 ft. [also adjact. mug. dist., p. 152,798.
Rhondda, R. Glamorgansh., Wales, trib., of R. Tait; Rh'ne, K. Switzid. and France, risg. in the Rhône glacier of the St. Gothard min. grp., and flowing 640 m. through the L. of Geneva and E. France to the Go. of Lyons in the Mediterranean. Also name of dep., S.E. France, and watered by R. Rhône and its customer R. Saddiue which mure at I yous, the can

dep., S.E. France, and watered by κ. Rhohe and its confluent R. Saddhe, which unite at Lyons, the cap. (g v.); area x,104 sq. m.; agr., wine-growg., and many manufs.; p. (increats.) 840,000.
Rhuddlau, or Rhyddlau, ε. on R. Clwyd, Flintsh., Wales; one of the Flint bors.; p. x,310.
Rhyl, war ρ! N. Wales, betwin. Bangor and Chester, at antrance Valle of Clwyd; fine sainds, bracing air,

at untrance Vale of Clwyd; fine sunds, bracing air, beautiful sceny.; p. 9.005.
Rhymney, f. on R. R., Mosmouthsh., Eng., nr, Mertilyr Tydvi, in mining thist, p. 11,451.
Rizzair, good. Centri. Russ., traversed by R. Oka, and ading. Moscow govt., area 16,225 50. m.; fertile agr. soi!; p. 2,000,000; cap. R., t. on R. Trubej, trib. of the Oka; manuf.; p. 32,175.
Ribble, R. Yorks. and Lancs, Eng. (75 m. long), flows to Irah S. below Preston.
Ribchester, f. on R. Ribble, Lancs, p. 1,866.
Riberra, f. in Corunna, prov. Spain, on pen. of Arosa estuary; agr., cattle-rearg., fishery; p. 11,1718.
Riberra, f. in. Gorgent, Scily; industri., p. 9,000.
Ricamarie, La, f. nr. St. Etienne, dep. Loire, France, p. 6,823.

p. 6,828.

Riccia, t. in Campobasso prov., Italy; industri; p. Richelleu, t. nr. Chinon, Indre-ct-Loire, France, p.

2,864.
Richelleu, or Chambly, R., Quebec, Can, flows (80 m.)
from L., Champlain to the R. St. Lawrence at L. St.
[coal-mining. znuc-smeltg., p. 4,260.

from I. Champlan to the R. St. Lawrence at L. St. Peter.

[coal-mining, zmc-smelty, p. 4,260.

Rich Hill, c. on Osage R., Bates co., Missouri, U.S. A.; Richibucto, p. 2 at inth. of R. R., Kent co., New Brunswick; gd. tr.; p. 4,345.

Richmond, c. on R. Thames, Surrey, Eng., indust. and resulti, beautiful park and riverside scenery, p. 33,223; also bor. on R. Swale, N.W. Yorks, Eng., p. 3,243; also c. on R. Thames (nr. the falls), Virginia, U.S. A., cap. of the State, gt. tobacco mitg. centre and mart, p. 127,628; also c. on Branch of R. Wintewater, Wayne co., Indiana, U.S. A., manuf., p. 22,324; also c. on Madison co., Kentucky, U.S. A., in tobacco growg, and horse-rearg, regn., p. 4,588; also t. in Victoria, subm to Melbourine, p. 30,084; also t. in Victoria, subm to Melbourine, p. 30,084; also t. in Victoria, subm to Melbourine, p. 30,084; also t. in Richterswell, vii. on L. of Zurchl, Switzld., p. 4,684, Rickmansworth, ink. t. on R.'s Colne and Chess, Herts, I.rg., p. 6,288.

Rickmansworth, mkl. 1. on R.'s Colne and Chess, Herts, I'ng, p. 6,268. Ruddings, nkt. 1. or. Alfreton, Derbysh., Eng., p. 6,074. Rideau, Canal, from Ottawa R., Can., to Kingston on L. Ontario, 12 m. Brit. S. Afr., alt. 3,109 ft. Riebeck's Casteel, mtn. Malmesbury div. Cape Col., Riesa, 1. on R. Elbe, nr. Meissen, Saxony, gd. ship tr. and manuf., p. 15,010.

Riesen Gebirge, min. range betwii. Prussn. Silesia and Bohemia, highest pk., Schnee Koppe, 5,275 ft. Riesi, t. nr. Tarranova, Caltanisetta, Sicily, industri., p.

13,400. Rietl, industri. 1. in Perugia prov., Italy, an ancient Sabine 1. in famous fertile dist., p. 18,644. [11,416. Rietabiza, 1. on R. R., govt. Vitcbsk, Russ., mfg., p. Riga, 39°. Russ., at 1 d. of C. of R., Livonia, govt., gri.

industri, activity and shipbldg, tr., p. 300,000, mchny, mftg., and ry. carriage bldg., very impt. and flourishig. Righi, imposg. mess. nr. L. Lucerne, Switzld., alt.

5,905 ft.

Rimini, t. in Forii prov., Emilia, Italy. on the Adriatic cst., mini. springs, sea-bathg., thrivg. industries, p.

22,506.

Rimaik, t. on the R. R., nr. Bucharest, Roumania, industri, p. 8,46; also t. on R. Aluta, 100 m. N.W. Bucharest, Roumania, gd. local tr., p. 7,246.

Ringwood, mkt. t. on R. Avon, mr. Christchurch, Hants. Eng. p. 7,152.

Rintein, fort. t. on R. Weser, nr. Minden, p. 4,276.

Riobamba, t. on San Juan R., Chimborazo prov., Ecuador, woollen mftg., Inca paiace runs nr., p. 20,884.

Rio Bonito, & Rio de Janeiro prov., Brazil, p. 8,426. Rio Branco, & of Brazil (700 m.) trib., Rio Negro. Rio Cuarto, & Cordoba prov., Argentina, p. 15,106. Rio das Mortes, R. of Brazil (500 m.), trib. of the

Rio das Mortes, R. of Brazil (500 m.), trill. of the Araguay. Rio de Janeiro, maritune *prov. Brazil, area 26,624 sq. m., p. (excludg. capital c. and municipality) 1,380,500. Coffee plantations. Cap. Rio de J., on B. sante name, largest c. in Brazil, p. (with dist. subs.) abt. 1,000,000. Many fine bidgs, flourisig. tr. and industries; immense coffee export. Rio de la Plata.—(See Plate R.) Rio de Dro, Spanish col. N.W. cst. Africa; sandy penins. Sahara cst., 23 m. long and 1½ to 2 m. wide; probably the Ciranis of Herodottis. Rio de San Juan. R. (300 ml.) of Utah. New Mexico.

propagy the Craims of records Rio de San Juan, R. 1350 ii.) of Utah, New Mexico, and Colorado, U.5 A. Rio Dulce, K. Santiago st., Argentina, 400 m. Rio Grande, R. Senegambia, Africa, flows (400 m.) to the Atlantic.

Rio Grande, R., head stream of the R. Parana (q.v.)

Brazil. Rio Grande del Norte, R. flows from Colorado through New Mexico, and divides Texas from Mexico State;

New Mexico, and divides Texas from Mexico State, falling after a course of 1,800 m. into G. of Mexico. Rio Grande de Santiago, R. of Mexico (princ. in Jaisco), 500 m. long, flows to Pacific.
Rio Grande do Norte, prov. Brazil, area 22,175 sq. m., p. 280,500. Cap. Natal.
Rio Grande do Sul, prov. S. Brazil; area 110,216 sq. m.; p. 450,816; cap. Porto Alegré; also name of t. in prov. in R. G. do Sul, at S. end Lago de los Patos; p. 200,000. 20,000,

prov. in R. G. do Sul, at S. end Lago de los Patos; p. 20,200.

Rioja, La, prov. Argentina, adjug. Chill; area al.,56,56 sg. m.; gold and silver mines; p. 73,450; cap. La Rioja; p. 6,250

Riom, f. m. f. Cleinnont, dep Puy-de-Dôme, France; former cap. Auvergne; p. 11,046

Rio Negro, R. S. America; rises in Colombla, and flows (1,350 m) through Northn, Brazil to the Amazon; also R. of the Argentine, rising in the Amazon; also R. of the Argentine, rising in the Amades, and flowg. through the terr. of Rio Negro to the Atlantic (650 m.); also name of terr. Argentina, S. of Pampa; area 75,502 sq. m., p. 10,000; Cap. Viedmont; cattle-rearing regu.

Rionero, £. nr. Melfs, Potenza prov., S. Italy; industri, p. 12,456

Rio Salado, R. Argentina; rises jn the Andes, and flows 1,000 m. S.E. to R. Parana at Buenos Ayres.

Rio Tinto, R. in Huelva prov. Spain; flows 60 m. to the Mediterranean. I and copper mines; p. 2,050.

Rio Tinto, Las Minas de; £. nr. Huelva, Spain; leaf Riouw, or Rhio, spt. R. Lunga Arch, Dutch E. Indies; p. (of residency) 95,800, (of £), 4,074.

Ripatransone, £. nr. Fermo, Italy; industri; p. 10,158.

Ripada, anc. £. N.R. Yorks. Eng., on R. Ure; fine

also L. on Ohio R., Brown co., Ohio, U.S.A.; p. 3,848
Ripon, anc. c. N.R. Yorks, Eng., on R. Ure; fine cathedl.; p. 8,218; also L. on Green L., Fond-du-Lac co., Wisconsin, U.S.A.; p. 4,024. [p. 9,120. Riposto, L. iii. Taornina, E. cst. Sicily; wine export; Ripponden, industri. v.M. nr. Halifax, W.R. Yorks, Eng.; p. 5,498. [p. 10,008 Risca, L. on R. Ebbw. Monmouthsh., Eng.; mining; Rishbon, industri. crossed, nr. Blackburn, Lancs, Eng.; p. 7,441

Eng.; p. 7,44x Rishworth, c. nr. Halifax, W.R. Yorks., Eng.; p. 934

Riva, fortfd. & in Tyrol, Austria, nr. Italian frontier;

Rivar octubes and process of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con

Rivas de Sil, 3st. Nicaragua, Centl. America: gd. cst. tr.; p. 16,180.

Rivas de Sil, 3st. Nicaragua, Centl. America: gd. cst. tr.; p. 16,180.

Riverta, 18t. do R. Rye, N.R. Yorks, Eng.; runed Rive de Gler, t. on R. Gler, dep. Loure, nr. Lyons, France; mining centre; p. 16,40.

Riverta, 3st. nr. Corunna, Spain; p. 9,848.

Riversadies, stst. W. prov. Cape Col., Brit. S. Af.; area, 2,468 sq. m.; p. 14,148; also vii. in same; p. 1840.

Riversalites, mkt. £ dep. Pyrindes-Orientales, France; Riviera, tie belt of coast between the mtns. of the shore of the G. of Genoa, N. Italy, from Speza to Nice; picturesque scenery, sheltered, mild climate; great health resort of the wealthy. Rivoli, £ 8 m. W. Turni, Italy; palace; p. 6,540.

Rivoli Veronesse, vst. on R. Adage, Verona, Venetia, 12tly; Rapoleon's victory over the Austrans, Jan. 12th, 1797.

[Asiatic Turkey; gd. tr., p. 20,600.

Roanse, £ nr. St. Etienne, dep. Loure, France; anc. t. of the Segussani, and later the Rousan Rodumna textile industries, p. 35,500.

t. of the Segusian, and later the Rousan Rodunnia, textile industries, p. 35,000.

Roanoke Isl., off cst. N. Carolina, U.S.A., 13 m. long; Roanoke R. of Virginia and N. Carolina (330 ml.) flows into Albemarle Sound; Roanoke t. on R. R., in ironviks. dist., S.W. part Virginia, p. 34,874.

Robin Hoo.'s Bay, picturesque intel, with fishg. vil., on cst. N. R. Yorks, Eng., nr. Whittby.

Rocca Strada, walled £. nr. Grosseto, Italy, p. (commune) 8,680. [D. 6,740.

(commune) 8,680. [D. 6,740. Rocela, c.st. / nr. Gerace, Italy: fishig, and cst. tr., Rochdale, textile mftg. /, on R. Roch, in Manchester, Lanes, Eng.; great co-operative centre, p. 91,437. Rocheford, /. on R. Roche, in: Chelmsford, Essex.

Rochelle, La, fortil, st. on R. Charente, dep. C.-In-feneure, France; with arsenal and st. cs. tr., p. (with riverside sub. of Tonusy-Charente), 35,412. Rochelle, La, fortil, stt. on Bay of Biscay, cap. Charente-Infeneure dep., France; slupbldg., chem-

Charente-Interieure dep., France; shipbidg., chemical wks., fisheries, p. 36,000.

Rochester, c. on R. Meriway, Kent, Eng., adjoung.
Chathan; cathedi, cavile, p. 31,388; also c. Mouroe
co., New York, U.S.A.; gt. mitg. centre on Genasee
R., with large shippig. tr., p. 281,49; also c. on
Salmon Falls and Cocheco R.'s New Hampshire,
U.S.A.; boot factories, p. 9,001; also c. on Zunbro
R., Olinisteid co., Minnesota, U.S.A.; in graingrowd, dist., p. 366.

growg. dist., p. 7,465. Roche-sur-Yon, La, t. on R. Yon Vendéc dep., France; castle, p. 11,450, called formerly Bourbon

Napoleonville.

Napoleonville.

Rockaway, summer pes. on sandbar of I.ong Isl., now incorporated with Queen's, one of the five boroughs of New York City, U.S.A.

Rockford, c. on Rock R., Winnebago co, Illinois, U.S.A.; machinery and furniture manuf, p. 15,400.

Rockhampton, c. on Fitzroy R., Livingstone co, Queensiand; pt. in agr, and unning dist, p. 20,915.

Rock Hill, c. in New York co., S. Carolina, U.S.A.; industri., p. 7,068.

Rock Island, c. on R. Mississippi, R. Isl. co. Illinois.

U.S.A.; four mills. class manuf, tumber vds. p.

U S.A.; flour mills, glass manuf., tumber yds., p.

24,335.
Rockland, c. and spt. Maine, U.S.A., on Penobscot
B., Knox co.; shipbdg., granite quartung, p. 8,200;
also t. Plymouth co., Mass., U.S.A., industri, p.

5.416. [grante quarries, p. 4,862. Rockport, t. ou Cape Anne, Essex co., Mass., U.S.A., Rock River, Wisconsin, U.S.A., trib. (375 m.) of the Mississippi.

Mississippi.

Rockville, c. on Hockanum R., Polland co., Connecticut, U.S.A.; silk and woollen inftg., p. 7,300.

Rocky Mountains, extensive chn. in N. America, extending along the W. portions of Canada and the U.S.A. from Alaska to Mexico. The highest accurately measured pt. in the United States system is Mt. Blanca (14,462 ft.); Mt. Brown, often

represented to reach an altitude of between 15 and represented to reach an auture or between 15 and to thousand ft., has been proved by careful survey to fall below 10,000 ft. Mt. St. Elias, in Alaska, nr. the boundary of Brit. N. America, is computed to be 18,03 ft. high, and was long held to be the highest peak in N. America, but is no a known to be surpassed by the adjacent Mt. Logan, and by Mt. Orizaba, in Mexico.

Rodez, or Rhodez, f. on R. Aveyron, cap. A. dep., France, the anc. Sagodunum; cathedri., gd. tr., p.

France, the size of the promonty. Adiatic cst., Italy, Rodi, f. on Garganian promonty., Adriatic cst., Italy, Roding, f. Essex, Eng. trib. (30 m.) of R. Thames. Rodosto, f. on S. of Marmora, Roumelia, European Turkey; agr. and silkwin. rearing, p. 35,550.
Rodrigues, Brit. isl., Indian Oc., dependcy. of Mauritius, area 48 sq. m., p. 2,120.
Roermond, f. on R. Mass, Limiburg, Holland, Minster, clath nutre, p. 9,468.

cloth nifg. p. 9,468.
Robilkhand, 4tv. N.W. Provs., India, area 19,908
sq. 11., p. 5,550,000; comprises dists. Bareilly, Bignaur,
Budaon, Moradabad, Pilibhir, and Shahjahaupur, all

or which see separately.

Rohri, t. on R. Indus, Shikarpur dist., Bombay, India.

p. 10,545.

Rohtak, dist. Dellil div., Punjah, India, area 1,797
sq. m, p. 650,000; cap. R., t. 42 m, N.W. Delhi, p.

Rokeby, par. on R. Tees, N.R. Yorks, Eng., at junctin, with R. Greta, celebrated by Scott.
Rokelle, R. Senegamba and Sierra Leone, W. Africa

(flows 250 m. to the Sierra Leone estuary).
Roma, z. Queensland, in agr. dist. nr. Mt. Horrible,

Roman, t. on R. Moldava, Rounania; cathedi, gd. tr., Romana, t. on R. Moldava, Rounania; cathedi, gd. tr., Romana, t. on R. Isère, dep. Drôme, France, formerly seat of anc. abbey, p. 14,108, Rome, c. on R. Tiber, in the Campagna, cap. Italy; one of the most fantous c.'s in the world; centre of the Perman (atholic Ch. and Gorner etc.) of the

the Roman Catholic Ch., and former cap. of the greatest st. in the anc, world. Situated on the original "seven hills" of the old Roman metropolis, original "seven mills" of the old atomain metropous, and in the valleys betwn, along the R., contains the celebrated cathedl, ch. of St. Peter, the Varican, many churches and palaces, the castle of St. Angelo, and numerous monuments; besides a university and several notable institus, devoted to art and learning, several notable insitins devoted to art and learning. Was created cap, of mod, United Italy in 1871. Flourishg, industries and trade; p. 540,000 (more than doubled since 1871).

Rome, c. Onerda co., New York, U.S.A. on the Mohawk R.; darrying centre; p. 20,407; also c. on R. Coosa, 1904 co., Georgia, U.S.A., in cotton

R. COOSI, Floyd Cd., Georgia, Clark, at Legal, program, profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profile profil

silted up by shingle, and now a mile from sea; p. r.333. Littlestone-on-Sea, adjacent, is a rising wat. pl. Romsdal, dist. Norway, in Trondhjem, prov.; area

Romsey, bor. co. Hants, hing., New Forest div., on R. Test; old Norman abbey ch.; tanyards; p.

Ronaldshay, N. and S. 1.sls of the Orkneys (q.v.). Roncesvalle, vil. and min. pass in the Pyrénées, Spain, 20 in. N.E. of Pamplona, Navarro. Charles the Great defeated here by the Busques for Moors

in 7/8.

Ronda, t. on the R. Guadalaviar, Malaga, Spain; checolate and flour mannf; p. 20,185. An auc. Moorish t. 42 m. N. of Gibraltar.

Moorish t. 42 m. N. of Gibraltar.

Rondout, f. (now incorporated with c. of Kingston)
Ulster co., New York, U.S.A., on R. Hudson; coal

ors, p. 1, 118.

Romsdorf, f. ur Rhenish Pruss., nr. Barmen; ironwks.; Rootkee, f. Salaranpur dist. N. W. Provs., India; lidgs. of the Benyal sappers and nuters; p. 15, 16.
Roosendaal, industri. f. nr. Breda, N. Brabaut,

Holland; p. 10,012. Roraima, mtn. Brit. Guana, alt. 9,000 ft.

Rorke's Drift, missm. sin. Zululand, Brit. S. Africa; heroic stand by a small band of Brit. soldiers, 1873. Rosario, t. in Argentina, on R. Paraná; great grain

Rosen, t. in Argentina, on R. Farants; great grain export; p. 120,000.

Rescommon, inland co. Ireld., Connaught prov.; area 49 sq. m.; p. (declining) 93,904. Cap. R., t. 96 m. from Dublin; p. 2.180.

Roserea, mkt. t. on Little Brosna R., Tipperary and King's County, Irel., p. 2,800.

Scotl., p. 1308.

Rosenbarty, fishing with nr. Fraserburg, co. Aberdeen, Rosenbeim, t. on R. Inn, nr. Munich, Bavaria; famous

for sulphur springs, a favourite wat. pl., with inpt. brine works; p. 16,124.
Rosetta, C. on W. branch of R. Nile, 43 m. N.E. Alexandria, Egypt; archaeological discoveries; p. 16,584.
Rosettide, or Rosekulde, nikt. 2. Denmark, 20 m. W. of Roskilde, or Roeskilde, nikt. J. Denmark, 20 m. W. of Copenhagen; fine cathedral, containing tombs of kings and queens of D., also royal palace; p. 8,500. Roslavi, J. in Smolensk govt, Russa, nr. the Oster R.; old Lithuanian t, with various manufs.; p. 18,500. Roslin, or Rosslyn, wid. on R. Esk, nr. Edinburgh, Scotl.; celebrated old castle and Gothic chapel. Ross, mkt. J. on R. Wye, Herefortshi, Eng., p. 4,682. Ross and Cromarty, coast and Highland co. Scotl.; total area 1,202 SG. m. D. 77,373; chf. t. Dingwall (a v.).

total area 3,202 sq. m., p 77,353; chf. t. Dingwall (q v.).

Rosano, c. nr. G. of Taranto, prov. Cosenza, Italy; old t. under the Byzantium Empire; good modern trade; alabaster and marble quarries; p.(communal).

Rossiena, industri. t. in govt. Kovno, Russ., p. 12,475.
Rossiand, c. in Kootenay mining dist., Brit. Columbia,

Rossiau, f. on R. Elbe, Anhalt, Germany; has two castles; chemical and other industries; p. 212 418.

Rosswein, mftg. t. on R. Mude, Saxony, p. 7,08.
Rosswein, mftg. t. on R. Mude, Saxony, p. 7,08.
Rostock, flourishing spt. on R. Warnow (nr. the Baltic)
nr. Strabund, Mecklenburg-Schwerin, Germany; nr. Stralsund, Mecklenburg-Schwerfu, Germany; university; exports grain, flax, cattle, etc.; p. 57,460. Rostov, t. on R. Don, Yeksternoolav govt. Russ; a great grain mart and commercial and industri. centre; p. (including Nakhichevan and other suburbs) 550,000. Rostov Veilkuy, t. nr. L. Rostov (or Nero), Yaroslav govt. Russ; formerly had a famous fair, now declined; boot and shoe manufs, kitchen gardening;

p. 15,820.

Rothenburg-an-der-Tauber, /. Middle Franconia, Bavaria, nr. Nuremberg; walled, with picturesque old gates and many mediæval bldgs., manuf. and tr.; p 8,096.

Po. 3,220.

Rother, R. Sussex and Kent (3r m), flows to Eng. Channel; also R., Hants and Sussex (24 m.), trib. of R. Arun; also R., Derbysh. and Yorks, Eng., flows to R. Don (2r m.) at Rotherham.

Rotherham, bor. on R. Rother, nr. Sheffield, W.R. Yorks, Eng ; Iron and chemical wks. p. 60,507. Rotherhithe, a S.E. Thames-side dist. of London, Eng., p. 60,601. Rothes, burgh in co.'s Banff and Eigin, Scotl., nr. R.

Spey, p. 1,350.
Rothesay, burgh in isl. and co. Bute, Scotl.; Clydeside

Rothesay, oney, in island co. bure, scott; Clydeside tourist resort; p. 9,299. Rotsondo, min. in Corsica, alt. 9,605 ft. Rottenburg; d. on R. Neckar, Wurtemberg; old castle, cathedral, former Jesuit monastery, hopgrowg, dist; p. 7,500.
Rotterdam, spi. and wealthy commel. c., cap. of S. Rotterdam, spi. and wealthy commel. c., cap. of S. Rotterdam, spi. and wealthy commel. c., cap. of S. Rotterdam, spi. and wealthy commel. c., cap. of S. Rotterdam, spi. and wealthy commel. c., cap. of S.

Holland; gt. shipping tr. and many manuf., on R. Maas; p. 426,000 (increased from 100,500 in 1884). Rotti, isl. (50 in. by 20 m.) off Timor, Malay Arch.,

Dutch possn.

Roubaix, thriving and industri, t. nr. Lille, dep. Nord, France; on the Roubaix Canal 1 m. from the Belgian frontier; woollen manuf., grape and tomato forcing, gt. tr., many educatl. instns. and fine bldgs.; p. 140,000 Rouen, c. on R. Seine, dep. Seine-Inférieure, France

Rouen, c. on R. Seine, dep. Seme-Inférieure, France, extensive cotton and woollen factories, magnif. cathedl. and churches; p. 116,000.
Roulers, f. on R. Lys, nr. Courtral, W. Flanders, Belgium; cotton manuf.; p. 21,420.
Roumania, indph. Annadom (since 1878) consisting of the old principalities of Wallachia and Moldavia, also the delta of the Danube and the Dobrudja. Separated from Bulgaria by the Danube, and from Hungary by the Carpathian Mtna, while the Pruth forms the

Russn. frontier on the E. Not being a Balkan State. took no part in the war of xor2, but after its resumption in 1913 she intervened and exacted from Bulgaria as the price of peace some 2,000 miles of territory. Area 53,472 St. m., p. over 7,000,000, cap. Bucharest (q.v.). Roumelia, former prov. of Turkey, betwn. Servia and E. Roumelia on the N., and the Sea of Marmora and

the Ægean S., Albania and the Black Sea W. to E.
Roumelia, East, nominally (by Treaty of Berlin 1878)
a self-governing prov. of Tirkey, but really a principality of Bulg iria S. of the Balkans; area 13,867

pality of Bulg tria S. of the Balkans; area 13,865 sq. m., p. 1,000,000; cap. Philippopolis (p.v.).
Roveredo, or Rovereto, one of the principal slik mftg. c.'s of the S. Tyrol, Austria-Hungary, on the R. Leno, p. 10,500.
Rovigno, 6. m prov. 1stria, Austria, on the Adriatic cst.; centre of sardine fishg, industry; p. 10,816.
Rovigo, f. betwn. the R.'s Adige and Po, Venetia, Italy; gd. tr., fine campanile tower; p. 7,684.
Rovno, f. m gowt. Vollynia, Russ.; an impt. tr. centre in 16th century, but wrecked by the Cossacks before its annexation to Russ. mod price tria provisions.

its annexation to Russ: good prest, tr. in provisions, milling industry; p. 25,600 [10.840.]

Rowandiz, fortfd. f. Turkish Kurdistan, nr. Mosul, p.

Rowley Regis, industri. t. adjng. Dudley, Staffs, Eng., p 37,000. Roxburgh, inland co. S. Scotland, stretching over gt.

part of the border line with Eng. ; area 670 sq. m. ;

p. 47,192; cap. Jedburgh (p.v.); also name of par. co. R., nr. Kelso, p. 1,024.
Royan, t. (industri.) m Charente-Inférieure dep., France, on coast 37 m. S. of Rochelle; fishery and

tr.: p. 8,362.
Royston, mkt. £. Cambridgesh. and Herts, Eng., p. Royston, industrl. £. nr. Oldham, Lancs, Eng., p. 17,069.
Rozsahegy, mkt. £. nr. the Vág. Liptó, Hungary; textile and paper manuf.; p. 8,469.
Ruabon, \$ar. in colly, dist. Denbighsh., N. Wales, c. Shropsh border; terra-cotta and the works; p. 3,648.
Ruatan, 11/Lin B. of Honduras, 30 m. by 9 m., belongs to Papulo of H. tr.; p. 8,362.

to Repub. of H.

Rubicon, A. of Centl. Italy, flows to the Adriatic;
identified by different authorities with the Urbino

Ruby Mines, dist. in Mandalay div. Upper Burma; area 1,915 sq. m., p. 90,580 Hilly regn. of the Shan plateau, nch in precious stones; hdqrs. t. Mogôk, in

centre of the mining industry.
Rudauli, & in Bara Banki dist., Oudh, India, p. 12,120.
Ruddervoorde, industri. vid. nr. Bruges, Belgium, p.

Rudauli, /. m Biara Banki disk., Oudn, India. p. 12,120.
Rudderworde, undustri. vvi. nr. Bruges, Belgium, p. 5,423.
Rudesheim, f. on the Rhine, Rhenish Pruss., nr. Wiesbaden; famous for wine, p. 5,014. On the Mederwald hill above the t. is the nati monument, "Germanna," commemorative of the war of 1870-1871.
Rudolf, f. m E. equatorial Africa; area 3,500 sq. m., discovered 1889, by Teleki, it lies in Brit. terr., N.E. of the Victoria Nyanza.
Rudolstadt, f. on R. Saalc, Germy, cap. of principalty of Schwarzburg-Rudolstadt; porcelain manuf.; p. 1,218, nr. the palace of Hendecksburg. [9,910.
Rudrapur, f. Oorakpur dist., N.W. Provs., India; p. Ruetil, or Ruel, f. nr. Paris, Seine-qt-Oise dep., France, 4m. outside the fortifiens, of the capp, p. 10,208.
Ruffli, R. of Germ. E. Afr., flows (450 m.) to the Indian Oc. [famous school; p. 22,762.
Rugby, mkt. f. Staffs, Eng., on R. Trent, p. 4500.
Rugen, 1sf. in Baltic, off est. of Pomerania, Pruss., area 373 sq. m. p. 48,000. Picturesque scenery, popbathing resorts, chf. t.'s Bargen and Potbus (g.v.).
Ruhla, f. and summer rest. in duches of Saxe-Coburg and Saxe-Weiniar, Gerny., nr, Eisenach and the Thuring lain Forest, in the valley of the Erb, mineral batts, res. p. 6,800.

Thuringian Forest, in the valley of the LPD, IMBERSAL STAR, P. 6,840.
Ruhrort, £ in Rhenish Prussia, nr. Dusseldorf, at the confluence of R. Rhur with the Rhine, shipping port of the Westphalian coal-field, p. 13,684.
Rukwa, £ in German E. Afr., continuata, of the rift valley of Lake Nyassa, 30 m. by 1s m., formerly covered a much larger space.
[18] m. by 8 m. Rum, st. of the Inner Hebrides, co. Argyll, Scotl., Ruma, £ in Hungary, 35 m. N.W. of Belgrade, industri., n. 8,860.

Rumbeke, industri. vil. nr. Bruges, Belgium, p. 6,461. Rumburg, t. on the Saxon frontier of Bohemia, Austria,

Rumburg, f. on the Saxon moments of some second control of the Indian textile and other industries, p. 10,518. [5.697. Rummelaburg, f. nr. Coslin, Pruss., gd. local tr., p. Runcorn, mkt. f. on R. Morsey, Cheshire, Eng., connected by the Ship Canal with Manchester, trans-

connected by the Sinp Lana with mannesser, trainsporter bridge to Widnes, p. 17,354.
Runnymede, meadow on R. Thames, nr. Staines,
Surrey, Eug.; celebrated as the spot on which King
John was forced by the Barons to sign Magna Charta

John was tortoo by the first property of the rost p B. and James B.

B. and James B.
Rurlel, f. in Saharapur dist., N.W. Provs., India, p.
Rusera, f. on Little Gandak R., Darbhangah dist.,
Bengal, India, p. 17,896
Rushiden, per. adjng. Higham Ferrers, Northants,
Eng., industri, p. 13,354
Rusholme, f. on E. of Manchester, S.E. Lancs., Eng.,

Rushome, 1. on E. of Manchester, S.E. Lancs., Eng., industri, and residenti., p. 12,114.
Rushville, f. Rush co., Indiana, U S.A., p. 4,260.
Ruska Poyana, peak of the Carpathan Mins., alt.

9,000 ft. [4,730. Russell, 59t. on B. of Islands, New Zealand, p (dist.) Russia, vast emptre, embracing more than half the continent of Europe and one third of Asia; estimated area 8,600,000 Sq. m. p. 163,000,000. It extends from Poland in the W to Behrung Strait, F., a distinct of 5,700 m., and from the Arctic to Southern Sheria N. and S., abt. 2,660 m. The State cap is St. Petersburg and S., aut. 2,000m. The state cap is a reference (g.v.), and the empire has six great divisus; Russia proper and Poland, the Finland grand duchy, Caucasia, the Transcaspian territory, Central Asia, and Siberia. In Europe, Russia has an area of a little over 2,000,000 Eng. sq. ni., and a pop. of about 108,000,000; and the most impt, cities, after the cap, are Mo-cow, Warsaw, and Odessa (all of which see).

Rustchuk, A. on R. Danube, Bulgaria, opp. Giurgevo, in Roumania, arsenal, barracks, and many manuf p. 10,068. p. 33 084. Rute, f. nr. Lucena, Cordova prov., Spain; industri

Rutter, r. nr. Lucena, Cordova prov., Spain; industri, Ruttergien, bor. on R. Clyde, Lanarksin, S.E. of Glasgow; industri, chemical and dye-works, rope and cotton-weavy. Eactories, p. 24,411. R. is one of the Kilmarmock Parly, burghsh., N.W., one of the Uenlight grp. of Parly, boroughs, p. 2,824. Swifelienof, nr. Conversation crow. Earl. Italy.

Rutigliano, t. nr. Conversano, prov. Bari, Italy; industri, p. 8,018.
Rutiand, midland co. Eng., smallest in country; area 147 sq. m., p. 20,347; agr., cap. Oakham (q,v); also name of c. in the Otter Creek valley, Rutland co., Clermont, U.S.A.; marble quarries, machine and COLUMNIA, C.S.A.; marble quarries, machine and furniture manuf., p. 11,500.

Ruvigado, t. in Candinamarca st., Colombia, p. 10,896, Ruvo, t. in prov. Bari, Apulia, Italy; cathedl., olive oil presses. p. 22,586.

presses, p. 17,266.
Ruysselede, industri. t. nr Bruges, Belgium, p. 6,983.
Ryan, Loch, arm of sea on cst. Wigtownsh., Scotl., Ryazan.—(See Riasan.)
Ryazhsk, f. in Riasan (or Ryazan) govt., Russ.; grain

ry, centre and gt. ry, junctu., p. 15,420.

Ryhinsk, dist. t. in Yaroslav govt., Russ., on R. Volya; corn-tradg centre, p. 28,680 (increased in summer by abt. 100,000 workers from the country dists.); lisas numerous breweries and manufs.

numerous broweries and manufs.
Rydal Water, picturesque L. nr. Ambleside, Westmorland, Eng.; vil. adjacent contains Rydal Mount, where the poet Wordsworth resided.
Ryde, bor. on N.E. cst. Isl. of Wight: yachting centre and wat. pl., p. 10,608; also t. on Faranatta R., co. Cumberfand, N.S. W., p. 1,640.
Rye, cinque fort and bor on R. Rother, Sussex, Eng., nr. Hastings; p. (with Tenterden par.) 7,015.
Ryzeshitza, old t. in Vitebsk govt., Russ.; anc. castle, p. 12,400.
Ryhope, industri. dist. adjng. Sunderland, co. Durham, Rylak, mfg. t. in govt. Kursk, Russ.; 15th century cathedl., p. 13,204.

Ryasen, t. nr. Zwolle, Oberyssel, Holland, p. 4,825, Ryton, t. on R. Tyne, Durham, Eng., 6 in. W. Newcastle; fromkis., p. 12,951.
Rzeszów, industri. t. on R. Wislok, Austrian Galicia; military depot, impt. horse fairs, cloth and linen factories, old princely château, p. 25,060, mostly Polish.
Rzhev, t. on R. Volga, Poer govt., Russ.; industri. and

Saadabad, t. in Laristan, Persia, nr. Kulı Furkun

Saadaad, £ in Laristan, Persla, nr. Kuli Furkun Min, p. 8,500.
Saadani, £ on est. German E. Afr., opp. Zanzibar, p. Saale, £., Thuringia and Pressa. S./2000, thi. 225 m.) of R. Elbe; also R., Lower Franconia, Bavaria, flows (69 m.) to R. Main at Gemunden; also R. of Salzbing and Bavaria, affit. (50 m.) of R. Salzach.
Saalfeld, £. on R. Saale, Saxe-Meiningen, Germy, sewing mach factories, p. 10,864.
Saane, £., Switzerid, rises on border cant. Valais, and flows. (55 m.) to R. Aar, nr. Bern.
Santzid., p. 4,018.
Santy, £. Alace-Lorraine and Rhenish Pruss., rises in the Vosges, and flows (153 m.) to R. Moselle, nr. Treves.

Treves. Saarbruck, or Saarbrucken, t. Rhenish Piuss., on R. Saar, opp the sister t. of Sanct Johann, mitg. centre

saar, bp. the sister to Sanct Johann, hing tentre in rich coul field, p. 30,500 (of Sanct I., 26,460).

Saarburg, walled & Alsace-Lorraine, Germy., on R. Saar, betwn. Strassburg and Nancy, glove and watch-

Siar, betwin, Strassburg and Nancy, glove and waterspiring factories, p. 3,954.

Saargemind, f. iir. Saarbruck, Germy., porcelain works and plush factories, p. 15,108.

Saarlouis, fortid f. Riicenish Priiss., on R. Saar, industri, p. 8,110.

[in hop growg dist., p. 19,007.

Saatz, or Saaz, f. on R. Eger, iir. Carlsbad, Bohemia, Sabadell, f. on R. Riipoll, Barcelona, Spain, linen and debt mills.

Sabacett, r. on R. Ripon, Barcelona, Spain, men and cloth mills, p. 25.21.

Sabanila, or Savanila, spt. on N.E. est. Colombia, Sabanila, or Savanila, t. nr. Isniu, Asia Minor, on L. same name, p. 4.865.

Sabbineta, mulustri. C. prov Mantua, Italy, p. (com-Sabine, R. Texa, and Louisiana, flows (500 m.) through

Sabine, K. I exas and Louisiana, nows (500 m.) through S. L. (an expansin of the R. 18 m. long) to Gulf of Mexico.

Sabine Mins., a branch of the Apeninics, E. of Rome, Sable Isl. (45 m. long) off S. E. est. Nova Scotia.

Sables d'Olonne, Les, wat. pl and fishy, port on B. of Biscay, dep Vendée, France p. 12,506.

Sacedon, t. nr. Guadalajara, Spain, medicinal springs, n. 2,570.

p. 2.503. [Venice, p. 5.679. Sacile, A. on R. Luenza, Udine prov., Italy, nr. Sackett's Haibour, lake port, Jefferson co., New York, U.S.A., on arm of L. Ontario, N. of Syracuse,

formerly an impt, not at the contains, N. of syracuse, formerly an impt, not at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contained at the contain

Maine. Sacramento, c. Califorma, U.S.A., cap. of st. and of S. co., on the R. S.; thriving manufe, : fine Capitol and N.C. cathedl.; p 45,500 The R. Sacramento (500 m.) rises in Goose L., on the Oregon fronter, and on the slopes of Mt. Shasta, and flows S. to Sau Francisco B.

Sada, t on B. nr. Corunna, Spain; local tr.; p. 5,904. Saddleback, mtn. nr. Keswick, Cumberland, Eng.,

alt. 2,847 ft.

Saddleworth, industri. township nr. Huddersfield, W.R. Yorks, Eng., p. 12,605; also dist. in Adelaide,

S. Austraha, p. 4,124. Sadhaura, t. Ambala dist., Punjab, India, p. 11,115. Sado, 151., 32 m. of Nugata, Japan, area 336 m., mutous, with famous gold and silver mines; p. 115,650. Port Ebsuminato on the W. est. Sadowa, vil. N.E. Bohemia, Austria, nr. Königgratz;

decrsive hattle, July 3, 1866.
Saffi, or Asfi, 50. W. cst. Morocco; poor harb., gt. grain and wool tr.; p. 15,650. [Chelmstord, p. 6,311. Saffron Walden, 60r. Essex, Eug., 24 m. N N.W.

Saga, tr. f. Kiu-Siu Isl., Japan, p. 30,130. Sagaing, & W. Upper Burua (area 30,009 sq. m.), in-cluding die dists. of Upper and Lower Chindwin, Siwebo, and Sagaing (area 1,862 sq. m. p. 290,416); cap. S., t. opposite Ava, on the Irawadi K., with

cap. S., t. oliposite Ava, on the Irawan A., white many pagodis, p. 10,000.

Sagan, or Zegan, t. nr Liegnliz, Prussn. Silesia, on R. Boders; formerly a Wallenstein possn.; p. 14,068.

Sagar, drst. Jabalpur div., Central Provs., India, area 4,005 sq m., p. 582,110; cap. S., t. 45,680; also name of a sacred isl. of the Hindia st unth. of Hooghi R.

Sagastyr, 1st. at nth. of R. Lena, Russn. Siberia;

sometime seat of an internati. Polar stn.

Saghalin, or Sakhalin, Russii. isl. of E. est. Asia, in S. of Oklotske, sep. by G. of Tartary from mainld., in S. of Oklotske, sep. by G. of Tartary from maintd, and included in Primorsk givet; 570 in. long, area 24,500 50 in.; used mainly as a convict station; p. att. 15,000, many of them Japaneve, the isl. (sep. from Yezo by Strait of La Perouse) having been cecled to Russ. by Japs in 1875.

Saginaw, c. on S. R. S. co. Michigan, U.S.A.; mfg. centre in agr. and timiter region; p. 50,510.

Sagua La Grande, C. Cuba, centrally situated on R. same name nr. N. est. of isl., p. 14,644.

Saguenay, R. Quebec Can, ; length thom L. St. John to R. St. Lawrence abt. roo m.; of gt. depth, with beauthful scenery.

to R. St. Lawrence and no m.; of gr. uepin, wan beauthful scenery.
Sahama, miss. of the Andes, Peru, alt. 22,350 ft.
Sahara, the gr. N. Airican deserve betwin the Soudan and the Barhary States, and extending from the Pacific to the Atlantic, include, Tripoli and Fezzan; area 3,500,000 sq. m.; the E. portion is known as the Libyan desert, that part E. of the R. Nile being often called the Nubian desert; there are numerous oases, such: 's and ir. contro., and the D. (est. 2,500,000) is called the Nubian desert; there are numerous oasees, with this and tr. centro, and the p. (est. 2,00,000) is nomadic; the French Sahara extends 1, 200,000 sq. n. from Algeria to L. Chad and Say on the Niger. Saharanpur, dist. Meerut div., N.W. Provs., India; area 2,22 sq. m., p. 1,270,500 grain, cotton, sugar; cap. S. c. on Damaula Nadi R., 95 m. N.E. Delhi; active tr., p. 64,000. [Oudh, India Sahet Mahet, runcd c. on Rapti R., Gonda distr., Sahibjanj, cut str., adjug, Gaya c., Gaya dist., Bengai, India, p. (s. with G.) 78,540. [N.W. Provs., India, p. Saidsa, cst. t. nr Beyrout, Syria, on Mediterranean (the anc. Sidon) p. 15,485. [college, agr., p. 6,140.

Saida, ext. t. nr Beyrout, Syria, on Mediterranean (the anc. Sidon) p. 15,485.
[colloge, agr. p. 6,646.
Saidapet, t. Chingleput dist, Madras, Indus; gort. Saigon, r. on R. Saigon, French Cochin, China, 35 m. Irom the China S.; a large commerch centre, with cathedral, citadel, argenal, and naval yd., and a p. of 50,000, while Cholen, or Cholon, 3 miles away, has 130,000 permanent midustri, residts., mainly Ann unese and Chinese, besides a floating p. of 20,000 additional during the nee season.

Saima, L. in Finland, N. of Viborg; area 190 sq. m. St. Abb's Head, rocky promontory (alt. 310 ft.) on est. Berwicksli, Scotl

Berwicksh., Scott

Berwicksh, Scotl D. 7,50s. St. Affrique, t. on R. Sorgues, dep. Aveyron, France, St. Agnes, spt. ur. Truro, Cornwell, Eng., p. 6,252; also one of the Scilly Isles, in S.W. of the grp., with lighthouse.

lighthouse.

St. Albana, c. and industri. bor. Herts, Eng ; cathedl., p. 18.732; also t. in dury farme, dist. Franklin co., Vermont, U.S.A., p. 6,46.

St. Amand, c. on R. Cher, dep. Cher, France; industri., p. 8,82; St. Amand-les-Laux, t. on R. Scarpe, Nord dep., France; ruined abbey, hot. munl. springs, p.

dep., France; rained abbey, hot. munl. springs, p. (communl.) rajsto.

St. Andrews, burgh and wat. pl. on St. Andrew's Bay, Fife, Scot.!; nunversity: p. 7.8gr; also spt. on Passamaquoddy B, New Brunswick; p. 3.40; also vil. nr. Montreal, Queboc. Can.; p. 2.80.

St. Anne, R. Can., flows (120 m.) to R. St. Lawrence, go m above Queboc.

St. Anne-son-the-Sea, wat. pl. nr. Blackpool, Lancs, St. Anne-son-the-Sea, wat. pl. nr. Blackpool, Lancs, St. Anneaud, r. in Kara Kara co, Victoria; familing dist.; p. 3.084.

[Deniligh; cathedl.; p. 1.796.

St. Asaph, bor. North Wales, in co.'s Flint and St. Augustine, c. St. John's co., Florida, U.S.A.; oldest t. in the States, fav. winter resort; p. 5.140.

St. Ansell, mkt. r. nr. Truro, Cornwall, Eng.; in china clay and the and copper mining dist.; p. 3.365.

St. Bartholomew, 13.1. in West Indies (French); area

35 sq. m.; p. 2,760; chf. t. Gustavia, One of the Lesser Antilles and a dependency of Guadeloupe. St. Bees, cst. A. Cumberland, Eng., nr. Whitehaven; p. 1,256. Bees Head (promonty), is 2 jm. Nr. St. Bénoit, A. on isl. Rèunion, Indian Oc.; p. 21,000; also vil. on R. Loure, dep. Loiret, France, nr. Oricans, with Benedictine monasty. St. Bernard, mit. pazz in the Alps, betwn. Valais and Piedmont, with famous hospice, alt. 8,750 ft. (see also Bernard, Great St., and Little St.). St. Bride's Bay, at W. extrem., Pembrokesh., Wales. St. Brieuc, nr. Bay of St. B., Côtes-du-Nord dep., France; ironworks, textiles, and cst. tr.; p. 24,504. St. Catherines, t. on Weiland Canal, Ontario, Can.; cycle and motor-car wks., and canning factories; p. 13,000.
St. Chamond, t. nr. St. Elince-making; p. 16,085. St. Charles, t. St. Charles co., Missouri, U.S.A., nr.

13,000. [lace-making; p. 10,085. St. Chamond, t. nr. St. Etienne, dep. Loire, France; St. Charles, t. St. Charles co., Missouri, U.S.A., nr. St. Louis; to bacco factories, flour mills, etc.; p.

8.545.
St. drinstopher, or St. Kitta, Brit. 4rl. of the Leeward grp., West Indies, avea 68 sq. m.; p. 30,800. Cap. Basse-Terre.

St. Clair, industri. t. nr. Pottsville, Schuylkill co., Penn. U.S.A.; p. 5,942; St. Clair R. (44 in.) sepa-rates Ontario, C.n., from Michigan, U.S.A., and drains L. Huron to L. St. Clair (18 in. long, 12 to 15 m. widel.

m. wide).

St. Claude, t. at confl. of R.'s Tacon and Bienne, Jura dep., France; tancy shell, horn, and ivory manuf.; cathdl.; p. 11,035.

St. Cloud, t. on the Seine, 6 m. S W. Parls, France; with fine park and pal.tid chateau; p. 4,895; also c. on R. Mississippi, Minnesota, U.S.A.; tumberyds,

c. on R. Mississippi, Minnesota, U.S.A.; immeryus, and sawmilis p. 9, 2104.

St. Croix, R. Minnesota and Wisconsin, U.S.A., trib. (200 m.) of the Mississippi; also wi, on French frontier of Switzerland, un cant. Vaud; p. 5,460.

St. Cunegonde, unitg. c. on Lachine canal, Hochelaga co., Quebec, Can., p. 11,614.

St. Cyr, vvi. in Versilles park, nr. Paris, France; with military academy, p. 3,15.

St. David's, sml. t. nr St. Bride's Bay, Pembrobesh, St. Denis, t. and north rvb. Paris, France, industri, and residth, p. 65,140; also spt., cap. of isl. Reunion, Indian Oc., p. 36,580

[cathedd., gd., tr., p. 20,180. and residtl, p. 55, 46; also spt., (ap. of ist. Keumon, Indian Oc., p. 26, 36) [cathed., gd. tr., p. 26, 186. St. Die, t. on R. Meurthe, Vosyes dep., France; St. Disier, t. on R. Marne, Vasy, Haute-Marne dep., France, iron tr., p. 16 o.8.

St. Elias. m/s. nr. Miatra, in the Morea, Greece, alt., 7,809 ft.; also min. N.W. Canada and Alaska, alt. 18,02; ft.

St. Rijenne, t. can. den. Loire, France, nr. Lyons;

St. Bleiman, A., cap. dep. Loire, France, nr. Lyons; active ribbon-weavy, boot-lace, silk velvet, and rounding centre, in coal-rib dist., p. 145,500 mfg. centre, in coal-rib dist., p. 145,500 ft. Bustatius, 15t. in Dutch W. Indies, nr. St. Christopher, area 9 sq. m., p. 1,200; cap Orange (or St. fopher, area 9 sq. m., p. 1,200; cap Orange (or St.

Eustatus).

St. Flour, t in Cantall dep. France, nr. Aurillac, p. St. Francs, R. Missour U.S.A. trib. (450 m.) of R. Missouppe: foundary of Arkanoas; also R. Quebec, Can flows to the St. Lawrence in Lake St. Peter.

St. Germain-en-Laye, t. on R. Seine, France, 8 m. W.N.W. from Paris; former royal château, p.

15, 500.
St. Germans, mkt. t. Comwall, Eng., nr. Plymouth, St. Giles, industri. London dist., in borough of Fingbury, p. 47,418.
St. Gothard, min. grys. of Lepontine Alps, Switzid.;

tunnel (9) m. long) connecting Swiss and Italn. valleys, pass (alt. 6,867 ft.) betwn. Ticino vall. and L.

of Lucerne.

St. Gowan's Head, promonty. Pembrokesh., Wales.

St. Helens, Brit. tol. in S. Atlantic, 760 in from Ascension, the nearest land, area 47 84, m., p. (inclidg, military), 3,500. Jamestown is the only port. Napoleon imprisoned here 185-21, and Beer captives in 1900; 18th oil cst. S. Carolina, U.S. A., nir. Charleston; noted for cotton; p. 6,754.

St. Helens, infig. t. (glass, alkeli, coal-mining, ironwks.), Lancash., Eng.: coonected by canal with R. Mersey; p. 96,556. Also t. nr. Rytie, I. of Wight, p. 4,954.

St. Helen's Mount, \$\subseteq L\$ in the Cascade range, Wash-St. Helier, \$\supset\$t. Jersey, Channel Isls.; fort. and wat. pl.; p. 3,0,120.

pl.; p. 30,120. St. Henri, c. Hochelaga co, Quebec, Canada, incorporated with Montreal; cotton and other manut.;

poracted with southreat; Cuton and other instant, p. 25, 120.

St. Hippolyte, t. nr. Le Vigan, dep. Garde, France, St. Hyacinthe, c. and 59t. on R. Yamaska, Quebec, Canada; manuf; p. 10, 316.

St. Ignace, c, Michigan, U.S.A., port on Point, St. I., Stratts of Mackinac, p. 4, 124. [mifg.; p. 7, 915.

St. Imier, 2nt. nr. Brienne, cant. Bern, Swatzld, ; watch St. Incohert, class and irrnwks c. in cohery dist.

St. Imper, vit. Iri. Drienne, cant. Bern, switzit.; water, St. Ingbert, glass and ironwks. t in collect dist., Palatinate, Bavaria, ir. Zweibrucken, p. 15,886. St. Ives, mkt. t. on St. I. Bay, Cornwall, Eng., p. 7,179; also mkt. t. on R. Ouse, Huntingdon, Eng.,

7,179; also mkt. L. on R. Ouse, Huntingdon, Eng., P. 2015.
S. Jean, Our-bec, Canada, St. Jean dist., p. 4,646.
St. Jean Baptiste, L. Hochelaga dist., Canada; industri, 16,518.
St. Jean Chrysostome de Chateauguay, vil. nr. St. St. Jean d'Angely, L. nr. Samtes, Charente-Inférieure dep., France; Ionner Calvinistic strongliold; ip., 7,602.
St. Jean de Luz, cst. L. dep., Blosses Pyronées, France, in G. of Gascony; former whale fishery pt.; p. 4,008.
St. Johann, Rheinish Pruss. (See Saarbruck).
St. Johann, Rheinish Pruss. (See Saarbruck).
St. Johann, Rheinish Pruss. (See Saarbruck).
St. Johann, Rheinish Pruss. (See Saarbruck).
Cst. Johan, st. E. N. E. St. Thoma, Damis W. Indies, area 49 st. m., p. 1,000; St. John R., New Brunswick, flows 450 m. to B. of Fundy; at its mith. is the spt. c. of St. J., cap. of proy; large corn and other tr.; p. 43,000; St. John is also name of large Canadia lake on Saguenay R., N. of Quebec.
St. John's, fortfuspt. c., cap. Newfoundland on E. cst.; finx Eng. settlement in America; gt. tr. in fis., cod,

St. John's, fortfüspt.c., cap. Newfoundland on E. est; first Eng. settlement in America; gt tr. in fist, cod, oil, &c., nearly lurnt down 1892, fine Gothac cathedl; p. 41,240. Also t. in Quebec, Canada, on R. Richeheu; grain and timber export; p. 4120. Also c. cap. Antiqua, W. Indies, p. 9,260. Also R. of Florida, U.S.A., flows (35 m.) to the Atlantic. St. John's Wood, resident!, dist. N.W. London, Eng., artistic quarter, contamns Lord's Cricket Ground. St. Johnsbury, f. on R. Passumpsic, Vermont, U.S.A.; manuf.: p. 2,518.

St. Jonesoury, For K. Fassumpse, vermont, U.S.A., imanuf.; p. 7,518.

St. Joseph, c. Buchanan (o., Missouri, U.S.A., on M. R.; meat-packing; p. 20,000 (doubled in 10 years). Also t. Berrien co., Michigan, U.S.A., at inth. of St. J.R. (250 in. long); industri; p. 5,742.

St. Joseph's Bay, arm of G. of Mexico, on cst. of Elected II S Ay.

J. K. 1850 III. 1987; Industrial Project.

5t. Joseph's Bay, arm of G. of Mexico, on cst. of Florita, U.S.A. (wine: p. 0.6.68, St. Julien-en-Jarret, t. on R. Gier, dep. Loire, France; fine churches; shrine of St. Junien, the hermit; glove-making, leather dressing, porcelain wo.ks; p. 13,05t.

5t. Just in Penwith, t. Cornwall, Eng., nr. Penzauce;

1), 3,268. St. Kilda, rocky isl. (most W. of group) of the Hebrides, Scotl.; 3 m. long, p. 80; also wat. pl.

Hebrides, Scuil; 3 m. long, p. 80; also wat. pl. Victoria, nr. Melloomre.

St. Klitts.—(See St. Christopher.)

St. Lawrence, great R. of N. America; length from the source of its headstream the St. Louis (which rises ar, the source of the Missasspip; and flows unto L. Superior), to Cape Gaspé in the Gulf of St. Lawrence, a, noo m. Forms the outlet of the great lakes (Superior, Mchigan, Huron, Erie, and Gntarno), and abe boundary between the st. of New York, U.S.A., and Ontario, Canada. Navigable for large vessels to Montreal, and for smaller ships past Buffalo to the bead of L. Superior. Contains the Thousand Islands and isls of lesus. Montreal, Ordens. etc. Width and isls. of Jesus, Montreal, Orleans, etc.

below Quebec, 7 m., to 90 at the mouth. The Gulf of St. L. (impt. fisheries) is an arm of the Atlantic, partly enclosed by Newfoundland and Nova Scotia. Cape St. L. projects into the G. at N. of Cape Breton Isl. St. Lawrence is also the name of an isl of Alaska (rom long) in Behring Sea.

it. Leonards-on-Sea, wet. pl. Sussex, Eng., W. of Meterogree

St. Leonards-on-Sea, wat. of. Sussex, Eng., W. of Hastings, p. 28,000.

St. Lo, f. on R. Vire, dep. Manche, France; cloth manuf.; fine cathedral; p. 12,046.

St. Louis, headstream of the St. Lawrence, Minnesota, U.S.A., flows 220 m, to L. Superior. Also c. on the R. Mississippi, Missouri, U.S.A.; has very varied and extensive manufs., a vast ry, system, and two universities; p.lexclusive of suburbs) 500,000. Bridge, 2,225 ft. louig, crosses R. to East St. Louis.

St. Louis, or Andar, f. at mouth of R. Senegal, E. Africa, cap. French possessions in Senegambia; p. 150,180.

St. Lucia, st. of the Windward group, Brit. W. Indies; area 237 sq. m., p. 52,000; cap. Castries; exports sugar and cacao.

St. Lucia Bay, sulet of the Indian Ocean at mouth of Univology R., Zululand, Brit. S. Africa, S. of St. Lucia Laboran exthe coast for n linur.

Univolozi K., Zululand, Brit. S. Africa, S. of St. Lucia Lake, a lagoon on the coast, 6 on, long. St. Malo, fortid. 59t. France, dep. Ille-de-Vilaine; castle and church (formerly a cathedral; ship-bidg, and trade with Eng., also fishing; p. 13, 180. St. Mantín, vii. Ourside the walls (E.N.E.) of Paris, France; industri, and residentl; p. 9, 974. St. Martín, 1st. of the Lesser Antillos, West Indies, parity belonging to France and parity to Holland; area of the Fiench partin, 20, 40, m., cap. Phillipsburg. Total n. 7860. l'otal p. 7,860

Total p. 7,800

St. Martin-in-the-Fields, par, in c. of Westminster, London, Eng: industri, and resdit; p. 18,120.

St. Mary, L in Ohio, U.S.A., nr. Grand Reservoir, Auglaize co., p. 5,416.

St. Mary Church, L on R. Daw, Glamorgani, Wales, p. 6,849.

St. Marylebone, bor. of N. W. London, Eng.; industr. St. Maryle, f, nr. London, co. Perth, Ontario, Canada, p. 4,816.

St. Maryle Loch, co. Selkirk, Scott; length (include, St. Maurice, t. on R. Marne, France; sulm. to Pans. (E.S. E.); p. 7,468; also vil. in cant. Valais, Switzid, nr. Lausunne; once a leading Burgundian t., 6th century abbey, p. 1,714; also R. of Quebec, Can., rib. (400 m) of R. St. Lawrence.

St. Michael, princ. 116. of the Azores; area 3008, m.; hot subplus springs, oranges, etc., Portuguese possn.

St. Michael, princ. 1st. of the Azores; area 30050, m.; hot subpiur springs, oranges, etc., Portuguese possn. (also called Sao Miguel), p. 125,000; cap. Ponta Delgada (s. v.). [Eng.; the anc. Ictis, all. 250 ft. St. Michael's Mount, castled roze of S. cst. Cornwall, St. Minel, t. on R. Meuse, pr. Naucy, France; industri, p. 8,918. [Forth, Fielsth, S.coth, p. 2,018. St. Monance, or Abercromble, fishg. vil. on F. of St. Moritz, incture-sque 1st. and health resert in the Upper Engadine, Switzld, alt. 6,000 ft. St. Nazaire, t. at mith of R. Lorre, pr. Nantes, France; docks and shipping; exports wine, sardines, silk, etc. p. 40,000.

France; docks and shipping; exports wine, sardines, silk, etc. p. 40,000.

St. Neots, unkt. f. Huntingdonsh., Eng., on R. Ouse, St. Nicholas, one of the Cape Verde Isle., p. 6,268; also mitty t. nr. Antwerp, E. Flanders, Belgium, cap. of the anc. Waesland, p. 32,106; also t. nr. Nancy, on R. Meurthe, France, p. 6,124.

St. Ninnans, t. on R. Forth, co. Stirling, Scotl.: St. Omer, fort. t. on R. Aa, Pas-de-Calais, France: lace and other manuf., cathedb., p. 21,484.

St. Ouen-sur-Seine, t. subn. (N.) to Paris, France: gun-making, soap-bodiling, rubber factories, p. 36,142.

St. Pancras, bor. of N. London, Eng.; industri. and reskitle, p. 216,243.

St. Pancras, bor. of N. London, Eng.; industri. and reskitl., p. 218,453.

St. Paul, "twin city" with Minneapolis (g.v.), Minnevota, U.S.A.; gt. commerci. and industri. centre: sep. p of St. P.ull, 215,000; also suil, French isl. in Indian Or. S. of New Amsterdam, if m long; also sml. isl N.N.E of Cape Breton, at entee. of G. of St. Lawrence; also spt. in isle of Reunion, p. 27,000; also R. of Liberia, flows 300 m. to the Atlanic nr. Monrovia. [prov. Angola, p. 25,250.

St. Paul de Loanda, cap. Portuguese W. Aff., in

St. Paul's Bay, inlet on N. cst. Malta; traditional scene of the slupwreck of St. Paul; also t. ou R. St.

scene of the shipwreck of St. Paul; also t. on R. St. Lawrence, 60 m. from Quebec, p. 4,684.

St. Peter, Jr., in Canada, expansion of St. Lawrence R. alove Three Rivers, 20 m. long, 9 m. wide; also industl. vil. on R. Minnesota, Minnesota, U.S.A., 5,118.

[pl., on H. St. Peter Port, clif Jr. Guernwey, Channel Isla: wat. St. Petersburg (now Petrograd), 2011. N. R. Russ.; area 20,960 sq. m., hilly on Finland border, but mostly flat and swampy; contains 8 dista, and numerous C. S. many of them summer resorts of the can. p. Lexylusty of the can. p. nearly recope of the cap., p. (exclusive of the cap.) nearly r,000,000. The c. of St. Petersburg, at the month of the R. Neva, the metropolis and sent of govt. of the Rusen. Empire, covers an area of 42 sq. m., and possesses many impusing bldgs, palaces, and open squares; besides a university and cathedral. The Nevski Prospekt, the principal street, is one of the finest in the world. There are arsenals, barracks, and immense industri, and commence, establishments. and immense industri, and common examples and an im-with educational and artistic institutions, and an im-2.000.000.

2,000,000.

St. Pierre, princ. f. of French W. Indies, on Martinique isl., destroyed by eruption of Mt. Pelée, May 8, 1902, 4,000 people of t. and neighbourhood being killed; also isl. Indian Oc., dependent of Mauritus.

St. Pierre and Miguelon, two xis. of France in the Atlantic, 10 m. from the Newfoundland cst.; united area 93 sq. mt.; p. 6,390; chf. t. St. P.; fishery industry.

[and other manuf.; p. 34,120.

St. Pierre-les-Calais, f. subn. to Calas, France; lace St. Pol, undustri. A Pas-de-Calais, France, 19 m. from Arras. p. 246.

Arras, p. 7.445. St. Pölten, t. nr. Vienna, Lower Austria; cotton spinning and hardware manuf; p. (including garrison)

ró.42.

St. Quentin, f. dep. Aisne, Franco on R. Somme; lace, tulle, and other factories, non works; p. 54, 116.

St. Remy, f. nr. Aries, Bouches-du-Rhône dep., France; Roman antiquittes; p. 0,244; also t. nr. Clermont; P. 19.

St. Servan, 59t. Ille-det-Villame dep., France, on R. Rance, opp. St. Malo, p. 13,416.

St. Thomas, Portuguese 1st. in G. of Guinea, nr. the Equator; area 358 sq. m.; coffee export, p. 19,420; also ist. of the Vingin grp W. Indies, purchased by the U.S. A. as a coaling sm. from Denmark, 1902; area 33 sq. m. p. 12,500; also c. on Kettle Creek, area 33 eq. n. p. 17,500; also c. on Kettle Creek, Elgin co., Ontario, Can: ry. workshops and manufit, p. 14,849, p. 14,849. Iluda; initiary stn.; p. 15,824. St. Tromas' Mount, L. in Chengalpat dist., Madras, St. Trond, L. nr. Tongres, Limbourg, Belgium;

industrl. : p. 12,049 t. Valerie-en-Caux, spt. and wat. pl. on Eng. Channel, dep. Seine-Inférieure, France, nr. Dieppe,

Diames, to some to the diameter of R. Somme to Eng. Channel, France; here William the Conqueror embarked for Eng. in 1005; p. (commune) 3,648.

St. Vincent, Brit 2st. W. Indies, one of the Windward of Barbadoes; area 133 sq. n.; sugar and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and sq. and

St. Vincent, Brit : at/. W. Indies, one of the Windward grp. W. of Barbadoes: area 133 sq. ni.; sugar and arrowroot culture; devastated by hurricane in 1898 and by eruption of the volcuno Souffirlers in 1902 cap. Kmgston; also one of the smir. C. Verde isla., p. 1,700; also sml. id. in G. of Mexico nr. mth. of Appalachicola R., Florida, U.S.A. [p. 2,655. St. Vincent de Paul, t. in 1sle Jesus, Quebec, Can. St. Vincent, G. of, arm of sea indenting est. of S. Australia, 85 m. long.
St. Vrietz, t. on R. Loire, nr. Limoges, France; kaolin Ste. Marie, French ist. E. of Madagascar; area 67 sq. nn. p. 6,004.

sq. m., p. 6,994.
Saintes, i. on R. Charente, dep. Charente-Inférieure,
France, Roman antiquities, suffered in the Huguenot
wars, thriving industries, p. 18,424.

wars, thriving industries, p. 18,424.
Sakai, prosperous industri. t. and port nr. Osaki,
Hondo, Japan, p. 60,140.
Sakata, t. in Ugo prov. Nipon Isl., Japan, p. 19,148.
Sakatai, dist. Transcaucasia, Russ., area 1,609 sq. m.,
Ip. 82,600.
Sakhalin.—(See Saghalin.) Blagovestchensk, prosperous tr., p. 6,460.

Sakmara, R. Russ., rises in Ural Mtns., trib. (350 mi)-of R. Ural.

Sakura-Jima, Japanese isi. in B. of Kagoshima, f m. by g m., has yolcano, celebrated for oranges, giant radisties, and hot springs. [I cherkask. Sal, R. Russ., flows 950 m. W. to R. Don at Nove Sala, R. co. Vestmanland, Sweden, nr. the Salberg.

silver mine, worked for 400 years, p. 6,640; also 4. nr. Potenza, Salermo prov., Italy, industri., p. (see

mune 6,548.

Salabina, i. in Santiago prov., Argentina, p. 8,847.

Salabina, i. in Santiago prov., Argentina, p. 8,847.

Salado, R. in Argentina, trib. (1,000 m.) of the Paraniai; also R. of Arizona, headstream of the R. Gila; also sind. R. of Cadiz prov., Spalin, flows to the Atlantic nr. Tanfa; Salado B. is an indentatin. of the Chilian cst. S. of Copiago.

Salagha, i. or Gold Coast, Upper Guinea, W. Afr., insert r. o. (about) reco.

Salagha, t. oo Gold Coast, Upper Guinea, W. Afr., iupt. tr., p. (about) ro,000.

Salamanca, \$rrov. W. Spain, in Leon, on R. Douro, area 4,000 ag. m., 2er., p. 37,000; cap. Salamanca t. on the Torines R., contains the oldest Spanish universy, i.capy convents, Irish colomy, two cathedis, old Roman bridge, p. 26,000 also t. in Guanajuato st., Mexico, gd. tr., p. 18,146; also isi. Colombia, off mth. of the Magdalena R. Salamis, st. of Greece, in the Saronic G., opp. the harbt. of Athens, length to m., the modu. Kolourt. Salamon, or Solomon Isla., chain of large ists in Pacific, S.E. of the Bismarck, Arch.; total area 26,000 So. m. b. (abl.) 176,000? northern bart of the

16,949 sq. m., p. (abt.) 150,000; northern part of the group (area 4.200 sq. ni., p. 45,000) belongs to Germany; the rest of the islds, are under British pro-

Salang, isl. off the est. of Malacca, in the Indian Oc.,

Salang, ist. off the est. of Malacca, in the Indian Oc., belonging to Sain, p. 12, 220,
Salangore, st. of the Malay Penin., on W. side, p. 13,480; cap. S., t., p. 4,185;
Salayer Isls., Dutch grp. S. of the Celebes, E. Indies, arta of largest, 180 sq. m., total p 68,000.
Salcombe, t. or. Kingsbridge, Devon, Eng., p. 2,032.
Saldanha Bay, sulet (17 m. long) on W. cst. Cape Col., Brit. S. Afr., 80 m. N. Cape Town.
Sale, industri. t. on R. Mersey, Cheshire, Eng., 5 m. S. of Manchester, p. 15,046.

Sale, industri. 2. on R. Mersey, Cheshire, Eng., 5 m. S. of Manchester, p. 15,046.

Sale di Tortona, 4. prov. Alessandria, Italy, industri, Saleh, 594. at 111th. of R. Buragreb, Fez, Morocco, tomaerly a pirate hdgrs., p. 10,000.

Salem, dist. Madras Pres., Brit. India, area 7,520 sq. m., unillet, rice, cotton, etc., p. 2.250,000; cap. S., C. on R. Tirsimanimuttar, weaving, cutlery manuf., gd.

on R. Tiramammuttar, weaving, cutiery manuf., gd.

Salem, c. on Massachusetts B., Essex co., Mass.,
U.S.A., 15 m. from Boston, unpl. nifig. centre, p.
43,697; also c. Columbano co., Ohio, U.S.A., steri
industries, p. 8,510; also c. at untl. of Fenuck.
Crock, Salein co., New Jersey, U.S.A., m fruitgrowing dist., p. 6,024; also c. on Wildamette R.,
Marion co., Oregon, U.S.A., university, p. 4,308.
Salembria, R. Thicssaly, Greece, flows (troim.) to G. of
Salomea.

Marion" 00, Oregon, U.S.A., university, p. 4,308.
Salembra, R. Thicsaby, Greece, flows (170 m.) 10 G. of
Salounca.
[Halicyæ; p. 12,078.
Salemi, f. nr. Palermo, prov. Trapaul, Italy; the auct.
Salerno, spt. c of Campania, Italy, on N shore C. of
Salerno; cotton-spinning, printing, leather works,
good wine-growg, dist; p. 47,244.
Salfort, unity bor, on R. Irwell, Lancs, Fng., adjign
Manchester, p. 23,236.
Salghir, R. of Russ., in the Crimea, flows (100 m.)
into the Putrid S., on the E. est.
Salign's, Tarjan, muning I. co. Nograd, Hungary, p.
Saliany, t. on the R. Kura, Baku govt., Russn. Transcaucasia: fishery. Near are runs of Herslassib, anc.
cap. of the Shahs of Shirvan, destroyed by the
Mongols, 1285; p. 10,500 (chefly Tartar).
Salida, c. Colorado, U.S.A., on the Arkansa R., p.
Salina, one of the Liparl I/Ir. in the Mediterranean,
om long: also c. on the Snoky Hill R., Kansar,
U.S.A. in farm regn. p. 6,240.
Salins, f. nr. Besancon, dep. Jura, France; salt springs:
Sallabury, c. on the Upper Avon, Wilts, Eng.;
spiendid cathled!; p. 21,217. Salisbury Plain, an
undulating upland N. of the city contains the prehistoric monumental termains of Stomehenge; near is
Old Sarum, from which the episcopal see was trans-Old Sarum, from which the episcopal see was transferred in 1220.

Salisbury, c. of N. Carolina, U.S.A., cap. Rowan co., p. 7,022; also c. cap. Rhodesia, Brit. S. Africa; also township, nr. Adelaide, S. Australia.
Salmon, K. Idaho, U.S.A., rib. (450 m.) of Snake R. Salon, c. on the Canal de Craponne, Bouches-du-Rhône, France: soap and oil works; p. 13,124.
Salona, c. in Phocis dist., Greece, on site of anc. Amphiesa, p. 4,86a.
Salonica, prov. Turkey in Europe, area 19,375 sq. m., p. over 1,000,000; also c. cap. of prov. (the anc. Thessalonica), spt. at head of G. of Salonica, centre of import tr. for Macedonia and much of Albania; fine liarbr., famous mosque of Santa Sophia, and Roman and Byzantine antiquities. Exports grain, cocoons, lindes, wool, tobacco, etc.; p. 174,000 (one-

Roman and Byzantine antiquities. Exports grain, cocoons, hides, wool, tobacco, etc.; p. 174,000 (one-half Jews, who have 25 synagogues)
Salop, alternative name of Shropshire (p.v.)
Salseete, isi. Thana dist. N. of Bombay, India, area 24 sq. ni., p. 170,140; connected by bridge and causeway with Bombay; cave antiquities and temples.
Salta, N. prov. of Argentina, area 62,184 sq. m. agr. p. 178,540; cap. Salta, c. on Rio Salta; p. 21,594.
Saltaire, mftg. 4, on R. Afre, nr. Bradford W.R. Yorks, Eng., founded by Srr Tins Salt in 283.
Saltash, mkt. 4. on R. Tamar, Cornwall, Eng., nr. Devouport; p. 4430.

Devonport; p. 4230. Saltburn-by-the-Sea, cst. wat. A. nr. Redcar, N. R.

Yorks, Eng., p. 3.324.
Salcoats, s/r nr. Androssan, Ayrsh., Scotl., p. 8,585.
Salt lio, c., cap. Coahula st., Mexico, gd. tr., p.

21,263.
Salt Lake, Great, Utah, U.S.A., area 1,900 sq. m., alt. 4,250 ft above sea-level, in "Great Basin" W. of the Rocky Mins., receives the Jordan R., no

Salt Lake City, on R. Jordan, Utah. U.S.A., nr. Gt. Salt Lake, headqrs, of Mormonism, temple and

university, p. 92,777.
Saltiey, t. in Worcestersh., Eng., nr. Birmingham; ry.

carriage wks. and various manufs., p. 10,054 Salto, & on Rio Uruguay, Uruguay, nr. Paysandu,

large fr., p. 18,105
Salur, f. in Vizagapatam dist., Madras, India, p. 12,114.
Saluzzo, f. nr. Coni, N. Italy, cathedl. and castle, p. (communt.) 16,540.

Salvador, repub. on Pacific cst. Centl. America, adjug. Hondurus and Guatemala, area, 7,225 sq. m., agr and mulls., p. 1,050,116; cap. San Salvador, p.

Salveen, R. Burma (800 m), wild and picturesque scenery, with many ripids falls into G. of Martaban; also clist, in Tenasserini divi, Lower Burnai (called also the Salwin Hill Tracks), area 3,606 sq. m., p. (latest retn.) 19,300. Bit admin. Isdqrs, Papun, nr. the Salween R. and the Slamese border.

Salzach, or Salza, R. Austria, trib. (130 m) of R. Inn.

Salzbrunn, vol. nr. Friburg, Prusan. Silesia, muclifrequented mineral and saline springs, res. p. 3,842.

Salzburg, duchy and Crowilland, Austria, adjig, Bavaria, and the Tyrol, area 2,762 sq. m. on northn. slope, Eastern Alps; contains many lakes and thermal springs, and has much minl. wealth, p. 214,614. Cap. S., on the Salzach R., picturesque tourist rest, with anc. citadel, burthpl. of Mozart, p. (in..hudg, garrison) 34,112.

(m.ludg. garrison) 34.112.

Salskammergut, did. S.W. angle of Upper Austria, betwn. Lake of Traun and Styria, has valuable salt-

Salzwedel, t. on R. Jeetze, Saxony, halfway betwn. Bremen and Berlin; hnen and damask weaver, p,

12,108.

Samara, penius. (with bay and capel in the Dominican repub., Hayti, on N.E., est., length 40 im.; also t. on S. B., same name, with fine harbri, p. 3,000.

Samar, f.s. of the Philippine grp., S of Luzon, 147 m. long, so m. wide, p. of prov. (includg. sml. attached isls.) 184,000; cap. of Catbalagon.

Samara, ferthe agr. prov. S.E. Russ., lying along the left bank of the Lower Volga, area 38,300 sq. m., p. (tht.) 3,000,000; cap. S., t. on R. Volga, and at head of Centl Asian and Siberian rys., thriving commel. centre, with gr. grain tr. and milling industry, p. 100,800. 100.840.

Samarang, fort. t. Java, on W. cst., cap. of residency and one of the chf. Dutch ports in the isl., gr. sugar and coffee export, p. 71,000. Samaria, ancient c. of Palestine, cap. of Kingdom of

Samaria, ancient c. of Palestine, cap. of Kingdom of Israel, no vil. of Schustieh.

Samarkand or Samarcand, prov. of Russn. Turkestan formed out of the Zerafshan dist. m 1899, area 26,627 sq. m., p. 860,000; chfly. pastoral or agr., many nonadic Uzlega and Kingluz. cap. S., c. on the Zerafshan R., the anct. Marakandaz, contains citadel and grave of Tunur, active tr. m silk, cotton, &c. p. 81,050 (40,000 in native c., rest in new Russn. town!).

town).

Sambalpur, dist. Chhattisgarh div., Centl. Provs., India: area 4,948 sq. m., nice crops, p. 835,460; cap. S., t. on R. Malinandi, p. (with mil. cantonment) 15,580; runnel fort, old temples.

Sambas, t. on W. cst. Borneo; gd. tr., p. 11,056.

Sambas, t. Moradabad dist., N.W. Prova, India,

Sambor, A. Austrian-Galicia, on R. Dniester; brine wells, brewing, damask, silk manuf., p. 18,500.
Sambre, R. Belgium and N.E. France (110 m.) trib.

R. Meuse at Namur.

R. Meuse a N. Gingenti, Sicily; industri., p. 10,005. Sambuca, t. n. Cingenti, Sicily; industri., p. 10,005. Sambuca, t. n. Cingenti, N. ol the desert at Yezd; cap. S., t. botwn. Teheran and Mashhad exports almonds and pistachios, fine mmaret, p. 1041, 10,000. Samoa, or Navigator Isla, arthipelago in Pacific Ochotwn. New Hebrides and Tahni; the two larger isls, of the grp. Savan (area 660 st, m., p. 13,500 and Upolu (340 sq. m., p. 17,000) were eccede to Germy. in 1000, and Titulia (54 sq. m., p. 2,000) and Manna, with Ola and Olesanga (200 sq. m., p. 2,000) to the United States, Gt. Britain withdrawing.
Samos, or Susam-Adaest, 121, (17th, to Turkey) off W. cst. Ana Minor in the Ægen S.; area 180 sq. m. p. 42,505, fine wine; cap. Vally. Samosata, or Samsat, 121, on site of anc. t. in Commagene, Syrka, Turkey in Aya, on the Euphrates;

Samosata, or Samsat, vil. on site of anc. t. in Commagene, Syria, Turkey m Ava, on the Euphrates; forner cap, of the Seleucri Kings; here the Persan "Royal Rood" crossed the F., and the place was also the starting pt. of the grt. rd to India. Samothrace, a rugged Turkkis rd, in the Ægoan, alt. 528 ft., the "Thracian Samos"; sulphur springs, p. 3500 manily Greeks); it has an area of 71 sq. m., and is frequently called Samothraki, Samshui, treata-port in Kwang-tung prov., China, on R. West; good tr. with Hong-Kong and by junks locally. p. 11250.

R. West; good tr. with Hong-Kong and by Junes locally, p. 11,125.

Samsüe, 15t. Zealand, Denmark, area 42 sq. m., p. 6,450.

Samsun, Turksh 5pt. on Black S., in Trebizonde vilayet; exports tobacco, gram, &c.; formerly a fourishg, Greek settlement, pres. p. 13,500.

San, R. Anstria, in Galicia, trib. (250 in ) of R. Vistula. Sans, t. in Arabia, cap, of Yenen, under Turksh rule; tortifdt, manuf. Jewellery, arms, &c., tr. in silks, cottons, and china, p. 45,000 (2000) Jews).

San Andres de Paloner, t. in Spain, nr. Barcelona; council and industrib. p. 18,120.

commel and industri., p. 15,130.

San Angelo, A. in Texas, U.S.A., on Concho R., p. San Antonio, c. at unh. of San Pedro R., Texas, U.S.A., gr. tr. in cattle, hides, etc., cathedral, fort, and

gr, tr. in cattle, maes, etc., cameurat, 10rt, sine arsenal, p. 0,6.014.

San Antonio de la Banos, t. nr. Havana, Cuba, minetal springs, p. 8,800. [p. (commune) 10,950.

San Bernardino, c. at base of S. B. Range in fruit regn. of S. California, U.S.A., gd. tr. in oranges and lemons,

of S. Lainornia, U.S.A., gd. tr. in oranges and lemons, p. 7,240.

San Carlos, f. nr. Valencia, Venezuela, p. 11,120; also tt., nr. Chillan, Chile, p. 9,5%; also spi. (San Carlos de Ancud) Philippine Isla., on Luzon est., p. 26,246. (commune) 13,460.

San Cataldo, f. Caltanisetta, prov., Sicily, gd. tr., p. Sanchi, f. nr. Bhopd, Centl. India, Buddhist antiquities.

San Cristobel, f. in Mexico Chiana prov. (formerly, San Cristobel, f. in Mexico Chiana prov. (formerly,

antiquities.
San Cristobal, t. in Mexico. Chiapa prov. (formerly Ciudad Real, and cap. of prov.) p. 13, 125.
San Cristoval, t. in Taclura prov., Venezuela, p. 12, 104.
Santi Spiritus, t. in Santa Clara prov., Cuba, is grazing dist., p. 13,520. Sanct Johann.—(See Saarbrück.)

Sanct Ponys, f. in Rhenish Pruss., nr. Düsseldorf, p. 6.483. Sandal Magna, industri. t. nr. Wakefield, W.R.

Sanda! Magna, industri. I. nr. wakeneid, w.k. Yorks, Eng., p. 15,890, Sandalwood Ial., in Malsy Arch., S. of Flores, in Dutch residey, of Timor, area 4,385 sq. m., very fertile, p. 200,000. Sanday, a flat isi. Of the Orkney grp., Scotl., p. 2,004. Sandabach, mkt. i. on Trent and Crewe Canal, Cheshire.

Eng., p. 5,723. [industrl., p. 12,444. Sandec, New, t. in Austrian Galicia, nr. Cracow, Sandefjord, famous old spa, Tarlsberg and Laurvik, [industrl., p. 12,444.

Sanderjord, Jamous old spa, Tarisberg and Laurvik, Norway, sulphur baths, p. 4,089.
Sandgate, cst. f. nr. Folkestone, Kent, Eng., old castle, h. (exclusive military) 2,830.
Sandhurst, far. on R. Blackwater, Berks, Eng., military coll., p. 2,475; also c. on Bendigo Creek, Victoria, gold-mining dist., p. 40,120.
San Diego, f. on Pacific cst., California, U.S.A., fine labble states health spaces to accept

San Diego, t. on Pacific est., California, U.S.A., fine harb., winter health revort, p. 39,578.

Sandoway, dist. in Aracan div., Lower Burma, ras-3,78 sq. m., mainly rice crops, p. 92,460. Cap. S. t. p. 2,894.

Sandown, t. in Isle of Wight, on S. Bay, nr. Ryde, Sandringham, wit., with Kuyal res., nr. Knig's Lynn, Norfolk, Eng. [Madras, area for sq. m. p. 1,12,30.

Sandur, petty st. S. India, surrounded by Bellary dist.

Sandusky, c. on S. Bay (an arm of L. Erie, Ohio, U.S.A. gd. tr. in coal, fruit, and food stuffs, p. 20,124.

Sandwich, anc. bor. and Cinque Port on coast of Kent,

Eng., at mouth of R. Stour; golf links opposite the Downs; an impt seaport in mediæval days; p. 3,040. Sandwich Isls,—(See Hawaii.)

Sandy Hook, narrow femm. 8 m. long) projecting mto lower bay of New York, U.S.A. San Felice, 2td. nr. Mirandola, Italy; industri.; San Felipe, 4 nr. Valenca, Venezuela, p. 6,180. San Felipe de Aconcagua, 4 nr. Valparaso, Chili, San Felipe de Aconcagua, 5 nr. Valparaso,

p. 12.054.
San Felipe de Jativa, f. in Spain, nr. Valencia, the anc. Setable; noted in Roman times for its linen manuf.; old castle; p. 15.120.
San Fernado, f. Cadiz prov., Spain, on Isla de Leon; fine town-hall and fish-market, gardens and vine-

hne town-hall and non-marker, gardens and the yards; p. 30,146.

San Francisco, spt. c. and cap. California, U.S.A., on the San F. bay (entrance "the Golden Gate"); large harbour; finest c. on Pacific coast; exports salver, gold, quacksalver, com, nool, etc.; manufas, boots, cigaro, iron, etc.; almost entirely destroyed by earth-marker and teen lives lost in sono but since rebuilt quake, and 1,000 lives lost, in 1906, but since rebuilt on greatly improved lines; p. 420,450.

Sangay, vol ano of the Andes, alt. 17,120 ft.

Sanguerhauson, t. at foot of Harz Mtns., Prussian

Savony, p. 11,148. [mitages, etc.; p. 4,090. San German, quant old inland c. of Porto Rico; her-San Germano, t. nr. Vernafro, prov. Caserta, Italy;

San Germano, . in Siena prov., Tuscany, Italy; wall and towers, frescoed cathedral; p. 9, 170.

San Giovanni a Teduccio, . at foot of Vesuvius, B. of Naples, Italy; iron mines, ry, workshops; p. 19,5%.

San Giovanni in Flora, c, nr. Cosenza, Italy; p. 1,1878.

San Giovanni in Peraiceto, . nr. Bologna, Italy, p.

contournati in Persiceto, t. nr. Bologna, Italy, p. (communal) 15,875.

Sangur, st. group between Philippines and Celebes, under Dutch suzerainty; cruption of volcano on cht. sl. killed 12,000 illustratust in 1890; p. (of grp 19,000.

Sangui, nat. st. Deccan div., Hombay, India; area 1,083 80, m., p. 240,050. Cap. St. t. on R. Kistna, p. 15,126

Sanguinetto, R. of Italy, flows to L. of Perugia; on its banks occurred, according to tradition, the battle

its banks occurred, according to tradition, the battle of Thrasymene. [Sacramento R. San Josequin, R. California, U.S.A., trib. (400 m.) San Jose, c. in the beautiful fruit-growing valley of Santa Clara, California, U.S.A., p. 38, 116.
San Jose del Interior, c. cap, of Costa Rica; many fine lidga; p. 26, 47;
San Juan, R. Bolivia, trib. (300 m.) of R. Pilcomayo; also R., Mexica, trib. (450 m.) of Rio Grande; also R. of Nicaragua, outlet of L. Nicaragua, flows 90 m. to Carabbean Sea to Cambbean Sea

San Juan Bautista, c. on N. coast Costa Rica; fortfd., barracks, landlocked harbour; p. 32,500. San Juan de la Frontera, prov. Argentina, next the Andes; area 29,700 sq. m., p. 130,000; cap. San Juin, on R. San J., nr. Mendoza, p. 15,140. San Lucar de Barrameda, t. nr. mouth R. Guadal-quivir, Cadiz, Spain; wines and agr. prod.; rained

castle ; p. 23.847. San Luis, c. Brazil, cap. Maranhão prov. ; episcopal palace; p. 39,112; also t. in Santiago prov., Cub., 1. 6,128.

San Luis Potosi, st Mexico, area 25,323 sq. m.; agr. and munl.; p. 580,500; cap. San Luis Potosi, centre for smelting silver, lead, and gold refining, p. 72,660. San Marco in Lamis, t. San Severo, Foggia, Italy,

p. 17,120.

San Marino, smlst. st. in Europe and smlst. repub. in the world, lies on spurs of the Appenunes betwn. the provs. of Forll and Pesaro, Italy, area 23 sq. m.,

623

p. 11,500; cap. San Marino, p. 1,684. San Miguel, c. on the Rio Grande, Salvador, Central America ; malarial swamps adjucen. ; p. 25.00

San Miguel de Mayumo, t. Bulacan prov., Luzon, Philippine Isls.; cotton weaving, cabinet making; p. 20,860.

San Miguel el Grande, /. nr. Guanajuato, Mexico, p. (communal) 16,846.

(Communal) 16,846.

San Miniato, A. in prov. Florence, Tuscany, Italy;
cathedl, glass mitg.; p. 8,246.

San Pablo, A in Lagunt prov., Luzon, Philippine isls.;
San Pier d'Arena, A subn to Genoa, Italy, p. 24,178.
San Pu, K. of Tibel (Sps m.), one of the head-streams
of the Brahmaputra.

of the Brahmaputra.

Samquhar, t on R Nith, Dumfriessh., Scotl.; one of the Dumfries burghs; p. 1,508.

San Rafael, t. and summer resort, cap. Marin co., Califount, U.S.A., nr. Sun Francisco B., p. 4,284.

San Remo, famous seasude resort, Liguria, Italy, on the Mediterranean, nr. Nice; flower and orange

growg: p. 22,180.

San Roque, l. in Andalusia, Spain, nr. Gibraltar, on N. shore of Bay of Algectras, p. 7,820.

San Salvador,—(See Salvador.)

San Salvatore, l. in. Alessandria, Italy, p. 7,850.

Sansanding, l. on R. Johba, in Bambarra, W. Africa,

Sansanding, t. on R. Johba, in Bambarra, W. Africa, p. 40,000.

Sen Sebastian, fortfil. c., cap. prov. Guipuzcoa, Spain, summer rest. of the Court; captured by Wellington 1873; gel ft. and ficheries; p. 42,005.

San Severo, t. nr. Foggia, Italy; industri.; p. 22,114.

San Stefano, cst. t. on Bo-phorus, Turkey, where prace with Russ. was signed in 1878, p. 4240.

Santa Ana, c. of Salvador, Centi America; municipal nalace, barracks; p. 34,000. Also c. Orange co., California, U.S.A., in frunt-growing region, p. 5,215.

Santa Barbara, t. and winter resort at ft. of Santa Inez nitns. California, U.S.A., p. 7,216.

Santa Catherina, an Atlantic st. Brazil, area 27,434 sq. m.; considerable mineral wealth; p. 34,000; cap. Floranopolis or Desterro, on Santa Catherina 181, fortified. fortified

Santa Clara, c. in Cuba, cap. Santa C prov., sugar-cane dist.; p. 14,120; also vil. in California, U.S.A.,

p. 4,216.

Santa Cruz, c. on Monterey B., Santa C. co., California, U.S.A.; pop. sesside rest., p. 5,860; also Sania Cruz or St. Croix, one of the Virgin Isles, forms with St. Thomas and St. John a Danish col.; area tro sq. m., p. 35,600; also t. Luzon, Philippine Isls., nr. Manilla,

p. 19,240.
Santa Cruz de la Sierra, dep. Bolivia; area 144,083
sq. m. p. 190,110; cap t. same name, p. 94,56.
Santa Cruz de Teneriffe, 59t. cap. Canary Isls., N.E.
cst. Teneriffe, p. 16,815.
Santa F6, cent. pera. Argentina; area 50,916 sq. m.,
agr. and stock-farmg... p. 850,000 (increased from
80,117 ing/860); cap. Santa F, t. on isl. in R. Salado,
p. 49,000; also c. on plain at base of Sangre de Cristo
range. New Mexico. U.S.A., alt. 6004 (ft. p. 4,624. p. 40,000; also c. on plain at base of sangre de Cristo range, New Mexico, U.S.A., alt. 6,954 ft., p. 5,624. Santal Parganat, The, dist. S. Bhagalpur div., Bengal, India; area 5,456 sg. ns., p. 1,810,000; cap.

Dumka Santa Maria, & in prov. Caserta, Campania, Italy, on site of anc. Capua; cathedl., glass and leather

factories, p. (commune) 23,110.

Santa Maura, or Leucadia, one of the Ionian Isls.,

Greece; area 110 m.; the anc. Leucas; exports

currants, wine, and oil,

Santander, markime prov. N. cst. Spain; alea 2,173 sq. m.; agr., gr.ape growg., fishy., p. 310,000; cap. S., spt., gd. harbr., and tr., p. 55,176; also name of st. m. Colombia E. of the Magdalema; area 16,409 sq. in., p. 450,000; cap. Socorro.

Santarem, dist. in Portugal, in the fertile valley of R. Tagus; area 2.649 sq. iii., p. 298,750; cap. S., t. (walled) on height above right bank of Tagus; fine bridge, p. 8,806; also t. on R. Amazon, Brazil, p. 10,000.

Santa Rosa, t. amongst the Coast ranges, Sonoma co., Cahfornia, U.S.A., in fruit and gram growg, region,

p. 7.080.

Santiago, R. Ecuador, trib. (180 m.) of R. Amazon; also the most S. Isl. of Cape Verde grp.; area 500

some time most of the perfect of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o university, gt. tr. and flourishg, industries, p. 276,000.

Santiago de Compostela, c on R. S r., prov. Corunna,
Spain; cathedl. (with tomb of St. James), university,

etc., p. 25,640. Santiago de Cuba, spt. c. on S. cst. Cuba (former cap. of the isl.); exports sugar, coffee, tobacco, etc.; Spanish fleet destroyed by U.S.A. warships here

rios, town surrendering, p. 54.00. Ip. 11.815.
Santiago del Estero, prov. Argentina; area 31.50.
sg. 11., p. 110.000; cap. t, same name, on R. Dulce, p. 18.248.

Santiago de los Caballero, t. on Yaque R., Santo Doningo (Hayti): large tobacco tr., p. 18,000. Santipur, t. on R. Hooghli, Nadia dist., Bengal, India; centre of local weavy, industry; p. 31,056.
Sante Antonio, mst. N. 224. of C. Verde grp., mitious.

and fertile, p. 30,000 and Domingo. (See Hayti.)
Santo Domingo, or San Domingo. (See Hayti.)
Santo Francisco, K. Brazil, flows (1,000 m.) from
Mmas Geraev prov. to the Atlantic, navigable for
150 m. below the cataract of Paulo Affonso, and for

rgo m. below the cataract of Paulo Affonso, and for several lumdred unles alove. [p. 43,150, cap. Théra. Santorini, volcanic 1st. of the Grock arch., to m. long; Santos, c. and 1st. b. Brazil; exports coilee, sugging rum, and tolacco; p. 42,855.

San Leopoldo, German 1st. and t. Br. Porto Alegre, Brazil, p. (of dist.) 30,000. [to R. Rhône at Lyons. Sanne, K. France, rives m the Vosges, and flows 282 m. Sanne-Haute. (Suc Haute-Saone.

Sanne-t-Loire, 465. E. Central France, area 3,33 ag. m.; pastoral and vineyds, with consid. mineral wealth; p. 616,000 (slightly decreasing); cap. Macon (6.7.).

Sao Paulo, c., cap. Brazilian prov. same name (112,330 sq. m., on Atlantic cst.), one of the most flourislig. commrcl. cities of S. Brazil; p. 280,000; gt. coffee

export.

Sao Roque, C. in prov. Rio Grande de Norte, Brazil.

Sao Thom... (See St. Thomas.)

Sapporo, admin. cap. isle of Yezo. Japan; garrison,

Sapporo, admin. cap. Iste of Yezo, Japan; garnson, and many fourshe; mdustries; p. 45,150.

Sarabat, K. Asia Minor, flows (180 m) 10 G, of Smyrna.

Saragossa, prvv. Span, admg. Navarre, area 6,607 sq. m., p. 420,000, cap. S. c. on the Ebro; two cathedls, unnerssty, ctadel, learning tower; captared by the Moors in the 8th century: regained by Christians in 1118, and became cap. 26 Aragon; capitulated to France, after obstinate defence, in 1800. 1908. p. 1800.

1809; pres. p. 92,000. Sáran, dist. Patna div. Bengal, India, area 2,653 sq. m., p. 2,361,000; indigo industry; admin. hdqrs. Chapra (g.v.).

19.04. India, p. Sarangpur, t. in Powas st., Bhopal, Centri. India, p. Sarangpur, t. in Powas st., Bhopal, Centri. India, p. Saranak, dist. t. in Russn. govt. Penza, og rly. from Moscow to Kazan; industri; p. t.,112. Sarapul, t. on R. Kanae, govt. Vyatka, Russ.; boot and glove factories; p. zz,618. Saraswati, sacréd R. of the Punjah, India. Sarastoff, govt. S.E. Russia, on right bank of Lower Volcz, nera so force on the second

Volga, area 32,624 sq. m.; agr., manuf.; p. 2,500,000,

mainly peasantry; cap. S., t. on R. Volga, impt. tr.

namy peasants, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1, sep. 1,

caports sigo, rubber, etc.; cap. Ku-ching, p. 50,000. Sarawan, prev. N. Balinchistan, area 15,000 50, m., 50,000; cap. S., t. n. Khelat, p. 28, p. 14,270. Sardhana, t. in Meerut dist., N.W. Provs., India, p. Sardina, r.t. of the Mediterranean, included in Italy,

Sardina, 7. in Meerit dist., N.W. Provs., Indua, p. Sardina, 7. in Meerit dist., N.W. Provs., Indua, p. Sardina, 7. of of the Mediterranean, included in Iraly, and former kingdom, constructed out of duchy of Savoy, area, 9,399 50. m., mtnous. but fertile, p. 860,000; cap. Cagliari [q.v.].
Sarda, ruined c. Asia Minor, anc. cap. Lydia, at ft. of Mr. Turolus, site occupied by mod. vil. Sart.
Sarguja, nat. st. Cluta Nagpur, Bengal, India, area 6.055 34, m., p. 270,500.
[Guerney, pict. scenery, Sark, one of the Channel Isls., 3½ m long, 6 m. E. of Sariat, c. Dordogne dep., France, nr. Perigueux. Cathell., p. 6,800. [Switzli, convents, p. 3,054. Sarnen, c. 2p. Obwalden dlv., cant. Unterwalden, Sarnia, f. on R. St. Clair, Ontario, Can., oi tr., p. 8,555. Sarno, f. in Salerne prov., Italy, industri., p. (com-Saro-patak, mtt. f. on R. Bodrog, Zeuplen co., Humary, old fort and castle, p. 6,802. Sarno, f. in Salerne, R. Glominen, co. Smaalenene, Niwa v., p. 7,010. Sartar-Og. 1f. nr. Bergen, Norway, 20 ni. by 7 m. Sarthe, R. of France, trib. (845 m.) of R. Mayenne; also dep. N.W. France, watered by R. Sarthe, area 2,412 st m. agg., vineyds, etc., p. 420 000 (shglitly 3,412) in the strip of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr

also dep. N. W. France, watered by At Samuel and 2,472 sq. m. agr., vineyds, etc., p. 422 000 (slightly declimit; cap. Le Mans (q.v.)

Sarum, Old and New. (See Salisbury.)

Satum, On and New. 15cc 38138011 y.)
Satzana, J. Genoa prov., Liguna, Italy, nr. Spezia,
cthedl., glass bottle factory, p. 15,000
Saskatchewan, or Nelson, F. Canada, flows (1,730 m.)
from Rocky Mins. through L. Winnipeg to Hudson

B: also prov. Can. a ree 114,000 sq. m., p. 260,000.
Saskatoon, c. Sask., Canada, p. 12,000.
Saskatoon, c. Sask., Canada, p. 12,000.
Saskatoon, c. Sask., The sardinia, Italy, large cathedli, university, mod. Go'linc palace, and old discal pal, (now mulcipal offices), mitch, tobacco, and macaroni factories, p. 39,500; cap. of S. prov., area 4.145 st. m. b. 32,000.

and macaroni increries, p. 39,500; cap. of S. prov., area 4,443 eq. m., p. 332,000.
Satara, sixt. Deccan div., Rossbay, India, area 4,687 eq. m., p. 1,150,000; cap. S., t. nr. conflu. Rs. Kistna and Yesla, p. 30,000.
Satara Jagirs. The, grp. nat. sis. Bombay, under Satara del., B. Pres., India, total area 844 sq. m.,

p. 110,000.

p. 10,000.
Satoraljauliely, f. cap., co. Zemplen. Hungary, tolsacco facty, and wine growg., p. 17,185.
Satsuma, prev. Japan, in S. of Kru-Sin Isl., famous for its Satsuma ware (pottery): cap. S., c.: the Satsuma lisls, are a grp. W. of the prov., the two princip. being Kami-Koshiki-jima [44] in. by 5½ m.), and Shumo-Koshiki-jima [44] in. by 5½ m.).

Saugor. (See Sagar.) Saugus, & in Mass., U.S A., nr. Lynn, on cst. Mass.

Bay, p. 4,206. Saujbulagh, f. Mukri dist., Azerbajan prov., Persia;

Saujbulagh, ?. Mukri dist., Azerbajan prov., Persia; exports truit, grum, and tolasco: p. 7,240.
Sault Ste. Marie, c. Michigan, U.S.A., at rapido R. St. Mary, outlet of Luke Superior; timber tr.; p. 13,115; also pt. en Canadian side. opp. above: p. 2,120.

[18]. and Tonga, p. 5,460.
Savage Isl., or Niue, in Pacific Oc., betwn. Saunoan Savall, largest of Saunoan grp. (See Saunoa.)
Savanna, c. illnos, U.S.A., on Mississippi R., Carrol co.: p. A248.

Savanna, c. imnos, U.S.A., on Mississippi K., Carro co.; p. 4.428.
Savannah, R. runling betwn. Georgia and S. Carolina, U.S.A. (ap m.), Sows to the Atlantic; also c. on S. R., Chatham co., Georgia, U.S.A.: manure manuf., timber yds., rice cling., etc.; p. 65.000.
Save, R. France, trib. (55 m.) of R. Garonne; also R. Croatia and Carmola, separatg. Hungary from Servia and Bosna, rib. (55 m.) of R. Danulis.
Savigitano, c. in Cuase prov., Fledmont, Italy; silk manuf.; b. II. 620.

manuf.; p. 11,540. Savoje, or Savoy, des. S. E. France, on Italian border;

area 2,389 sq. m.; corn and wine growg.; p. 249,000 (decrease.). Cap. Chambery (q.v.). (See also

decreases.). Cap. Chambery (7.2). (See also Haute-Savoin, 2. on W. Riviero est., Genoa prov., Italy: iron and shipbidg, works; exports preserved froits and tomatoes; p. 30,000.

Savu, 17 between Timor and Sandalwood, Maltur, or Sawantwart, or Savantwart, or Savantwart, or Konkan div. Bombay, India; area, 926 sq. m.; p. 220,000. Cap. S.

(or Wari), t.; p. 9,804. [2.246. Sawbridgeworth, t. on R. Stort, Herts; Eng.; p. Sawel, min., cos. Tyrone and Londonderry, Ireld.;

Sawel, min, to a friend miningia, Centl. Germy, ; area gri ag. m.; p. 217,000. Cap. Altenburg (q. v.).

Saxe-Coburg Gotha, ducky divided by Thuringer Wald, Germy, area 760 sq. m.; p. 260,000. Caps. Coburg and Gotha.

Saxe-Meiningen, duchy betwn. Coburg and Gotha, Thurngan, Germy.; area 983 sq. m.; p. 880,110. Cap. Meiningen.
Saxe-Weimar, grd. duchy, Germy., one of the Thurngan stb.; area 1,388 sq. m.; p. 346146. Cap. hipkan stb.; area 1,388 sq. m.; p. 346146. Wennar Samundham, mkt e. nr. Ipswich, Suffolk, Eng.; Saxonland, diet. S. Transylvana; area 3.43 sq. m.; p. 384,624; ch. t. Hermannsladt (q.w.). Saxon Switzerland, menous, det. Saxony, en banks of R. Ellie, S.E. of Dresden.

Saxon Switzerland, minour, det. Saxony, on banks of R. Elhe, S.E. to Dresslen, Saxony, Kingdom of, st. of German Empire; area 5,787 sq. m; great mini. weath; p. 4,900.00. Cap. Dresslen (g.w.). Also prov., Prussla, ading, above on W.; area 9,789 sq. m; ager, and minks, p. 3,000,000. Cap. Magdeburg.

Sayre, br. Bradford co., Penn, U.S.A., on R. Scafel Pike, min. in Cumberland, 10 m. from Keswick, Inghest m. Eng., alt., 2210 ft.

Scala Nova, cst. t. Asia Minor, nr. Smyrna, on G. of S. N., an arm of the digean St., p. 18,500. Scandineval, the gr. permetula of N. Europe, comprising the land occupied by the peoples of Sweden, Norway and Demmark (g.w.).

Scarborough, bor. and fashionable cst. mot., d. N. R. Yorks, Ling., p. 37,204; also t. in W. Indios, cap. Tobago sl., p. 1,290. [W. of Harris, 3 m. long Scarpan, 17. of the Outer Hebrides, Scotl., Carpathy, N. R., of Crete, 31 m. by 8 m., p. 5,000 (mainly Greeks).

Scarpe, R. France, dop. Pas-de-Calais, trib. (70 m.) of Schaefbeck, industri. A Belgram, on R. Sonne, subn. to Brussels, p. 47, 890.

Schaffbauen. most N. cant. Switzld, an R. Rhine

Schaernees, industri. R. So. Segram, on K., Sonne, subn. to Brus-els, p. 47, 820.

Schaffhausen, most N. cant. Switzld. on R. Rhine next Baten; area 173 sq. m., pastoral and afforested; p. 46,500. Cap. S. t. on the Rhine; cathedral p. (includg. Fuerthalen) n, ooo The Falls of Schaffhausen, at Laufen, nr. Neuthausen, constitute a cataract to ft. high, or, including the rapids, about too ft., the stream of the Rhine at the summit being see ft. with the stream of the Rhine at the summit being 375 ft. wide.

375 ft. wide.

Schaumburg-Lippe, principality of Germy., in the W-ser val., between the Prussin. provs. of Hanover and Westphala; area 131 st., in., p. 45,000. Cap. Buckeburg, on R. Ane (gw.).

Scheidt, or Scheide, R. of France, Holland and Belgium, rises in dep. Alsne and flows 248 in. to the N. S. by the estuaries indente, Zeelund, passing Tournai, Oudenarde, Ghent, Dendermonde, and Antwern.

Antwerp.

Schemnitz, t. in co. Honthe, Hungary, 67 m. N. of
Budapest; impt. mlning centre in dist. producing
gold, silver, copper, and lead; p. 76, 120.

Schenectady, c. in val. of R. Mohawk, New York,
U.S.A.; nanuf.; p. 72, 2836.

Scheveningen, wat, pl. S. Holland, 2 m. N.W. of The
Hague; large fishg. fleet, Kurthava and Kursali, res.;
p. 71,000.

Schledam, t. on R. Schie, nr. Rotterdam, Holland;
Schledam, t. on R. Schie, nr. Rotterdam, Holland;
Schiehallion, mass. Perthah., Scotl., nr. Aberfeldy,
all: 2,5,5,6

alt. 3.547 ft. Schlan, inftg. f. in coal-field dist. Bohemia, Austria,

nr. Prague, p. 9,825.

Schlangenbad, wet. pl. nr. Wiesbaden, Pruss., in Hesse-Nassuu prov.; mmeral springs; p. 800. Schlei, narrow initet of the Balluc, Schleswig-Holstein, Germy., 25 m. long, penetrating to Schleswig, t., inclusii, p. 18, 20; inscatedral.
Schleswig-Holstein, prov. Pruss., adjoing. Denmark on the N.; area 7,337 sq m., agr. and manuf.; p. 14,500.00; cap. Keil, (g.w.). The N. part of the prov., Schleswig, and the S. div., Holstein, were both Danish duches prior to 7660; and a large ports. of the inhabts. still speak Danish.
Schlettsackt, fortd. d. in Lower Ahace, on R. Ill. nr.

Schlettstadt, fortd. d in Lower Ahace, on R. Ill. nr. Strasburg, taken by the Germans in 1870. Formerly a free mipl. c., has two cathedls.; p. 10,120.

Schlusselburg, A. in govt, St. Petersburg, Russ., at usue of R. Neva from L. Ladoga; fortress prison; p. 5,860.
Schneidenm'hl, mftg. t. in prov. Posen, Pruss.;
Scholes, t. nr. Leeds, W.R. Yorks, Eng., industri;

Scholers, t. III.

p. 1,50.
Schombach, t. in Eger dist., N. Bohemia; musical mst. manufs.; p. 4,500.
Schönberg, t. on R. Teso, Moravia, nr. Olmutz; textile md.; p. 12,018.
Schoningen, nr. Magdeburg, Brunswick, Germy.; anc. t. with ruined ducal castle, brine-spring, and mach. mentic. v. 2 4646.

anc. t. with ruined ducal castle, brine-spring, and modn. manufas, p. 2, 546.
Schorlau, or Tchorlau, t. in Rodosto vilayet, Europa. Turkey; carpet and cloth factories; mosques and Christian che; p. 12,000, half Greck.
Schreckhorn, min. of Berniese Alps, alt. 13, 366 ft.
Schuya, t. on R. Tesa, Vladmir govt, Rusa; textile and soap lactories; p. 24,206. "Industri, p. 4,662.
Schuylkill Haven, 60r. Penn. U.S.A. (p. 4,885) cn
S. R. which enters the Delaware below Philadelpha, leputh; to length 130 m.

Schwabach, A. Middle Franconia, Bavaria, nr. Nuremberg; needle factories and gold and silver

Nuremberg: needle factories and gold and sièver wire-works; p. 9,546.
Schwarzburg-Rudolstadt, principality of Thuringia, Germy; area 303 sd. ni., mainly agr.; p. 95,265; cap Rudolstadt (p. 2.).
Schwarzburg-Sondersbausen, principality of Germy; betwn. Prussin, Sixony and Saxony proper; area 333 sq. ni., p. 84,262; cap. Sondershausen, on R. Wipper; p. 6,230.
Schwatz, or Schwaz, t. on R. Inn, in the Austrian Tyrol, dominated by the Château of Freundsburg: old names and modil. manufs.; p. 7,012.
Schwechat, t. in Austria, nr. Vienna; large brewery and factories; p. 9,844.

Sand factores; p. 9,88.

Silesia; textile indust; p. 10,98.

Schweinfurt, f. on R. Mann, Lower Francoma, Schweinfurt, f. on R. Mann, Lower Francoma, Schweinfurt, f. on R. Mann, Lower Francoma, Schweinfurt, f. on R. Mann, Lower Francoma, Schweinfurt, f. on R. Mann, Lower Francoma, Schweinfurt, f. nr. Arnsberg, Westplala; p 14,824.

p. 14,034. Schwerin, I. (cap.) in Mecklenburg-Schwerin, Germy.; industri. and educati.; p. 40,000; also mfig. t. on R. Warthe, prov. Posen, Pruss.; p. 8,195. Schwerte, I. ig. Hagen, Westphalta, Pruss; nickel

works: p. 1,627.
Schwetz, Z. on R. Vistula, nr. Marienwerder, West
Prits.: old castle, danusk-weavang; p. 7,862.
Schwetzingen, Z. nr. Mannhein, Baden, Germany;
grand-lucal castle, cragar manuf., liop fr.; p. 6,864.
Schwebus, Z Brandenlung prov. Pruss. nr. Frankforton-the-Dder; old walls, anc. mkt. pl., and castle:

P. 9.145. Schwyz, or Schweitz, a forest caud. Switzerid.; area 305 vq. m.; p. 50,000; cap. Schwyz, t. mr. L. of Schyl, R. Transylvania and Roumania, trib. (120 m.) of Sciacca, spt. S. cvt. Sicily, m. Grigenti; indiges. of Mediternancan coral fishy; p. 24,000. Scilla, famous promty on St. of Messima, Calabria, Italy; also spt. t. with criadel, on steep chiff overhookg, strait; celebrated for silk and wine; p. 7,420. Scilly Islas, group m. Land's End, Cornwall, Eng.; total area, 10 sq. m; p. 2,800. High Town, the cap. of the isls., is on St. Mary's, the largest of the group. Scio, Turkish 64. W. cst. Asia Minor; area 308 sq. m., devastated by earthdee, in 1881, p. 44,000, mainly

devastated by earthque, in 1881, p. 64,000, mainly Greeks; antimony and other mines, exports wine,

fruits, and gum. The classical Chios Scio, or Castro.

fruits, and gum. The classical Chios Scio, or Castro, the cap, has a good larbr: p. 15,000.
Scioto, R. of Oliio, U.S.A., joins the Ohio at Portsmouth after flowing so m. from the W. and N.
Scone, par. (with palace seat of Earl of Mainsfield), Perthsh., Scotl., and a place of res. and coronation of the early Scottish kings. Thence Edward I. carried "the stone of destiny" to Westminster Abbett in roof in a series.

Abley in 1296, p. 1,510.

Scotland, the N. div. of the Isl. of Gt. Britain; area (includg. the isls attached) 30,463 aq. m.; grst. length, uncaug, the isis attached) 30,403 sq. m.; grst. length, 280 m.; grst. width, 150 m.; p. 4,759,445. Cap. Edinburgh, chf. commet. and industri. c., Glasgow, (2.v.). Very inthous, and picturesque in N. and N.W. (the Highlands) with many takes. In the Lowlands mainly fertile, with much mini. wealth. Fisheries impt. Divided into 32 counties, which see separately. separately.

separately, separately, separately, con Susquehanna R., Lackawanna co., Penn, U.S.A. in anthracite coal regn, iron foundries and silk manuf.; p. 720,000. [industl.; p. 10,170. Scunthorpe, t. in Lindsey div. Lincolnsh., Eng.; Scutarl, t. on the Bosphorus, Asia Minor, opp. Constantinople, of which it is considered a suburb. Constantinople, of which it is considered a suburb, p. (abt.) 9,000, mostly Turks; active r. in Assatic products; also Turkish t. in Albania, at foot of Scutari L. (anc. cap. Illyria); exports, tobacco, grain, wool, skins, etc.; p. (ext.) 35,000. Scntari L. lies on the borders of Montenegro and Albania in Europn. Turkey, and is 29 m. long, with outlet by the Bojana into the Adriatte.

Seacombe, ecclesti. dif. Cheshire, Eng., N.W. Birkenhead, p. 7,120.

[p. 4,767; golf-links, Seaford, cst. wat pl., Sussex, Eng., ur. Newhaven, Seaforth A. in Hurou dist, Outarno, Can., p. 3,648.

Seaforth Loch, on E. side Isl. of Lewis, Outer Hebrides, Scotl., 14 m. long.

Seaham Harbour, 3pt. nr. Sunderland, Durham, Eng.; coal tr. centre, glass bottle wks, p. 15,759.

Seaton, f. nr. Workington, Cumberland, Eng. p. 48na.

Seaton, 7. iii. Workington, Cumberland, Eng., p. 4.42a.
Seaton Delaval, industr. Lowsty, iii. Biyth, NorthSeattle, 4. on Admirally Inlet, King co, W. Shangton,
U.S.A.; rlwy, terminus, and limber centre, p.
nearly 236,300 (increased from only 3350 iii. 1880), has

nearly 233.5.5.0 (increased from only 3,550 in 1880), has a great meat-packing ir, doo State university. Sebastopol, or Sevastopol, strongly forticl. Russn. 34. in the Crimen, govt. Taurida; grain export and pop wat. pl., thriving t., bailt on ruins 1 ft. after the famous stege of 1855, p. include military 7,2500; commrcl. port transferred to Theodosia. Feodosia or Va fe Levil. Sobjectivelies the traine of a bor. Schmitch, port transferred to Theodosia, Peodosia or Ka fa (q.v.), Schostopolis also the name of a bor, in co. Grenville, Victoria, p. 2,946.

Sebenico, (st. t. on the Adri tite, Austrian Dalmatia; fishy, and wine tr., p. (commune) 25,000.

Sebustieh, vit. nr. Nablus, Palestine, on site of anc. Samara (q.v.)

Sebustien, vit. III. Nadius, I alcaling of the Samara (J.v.).
Sechhaus, ž. nr. Vienna, Austria : residil, p. 12,220.
Sechhaus, č. nr. Vienna, Austria : residil, p. 12,220.
Sechhaus, č. nr. Chenn, p. vv. W. Chimi, adjing.
Tiliet, arca 185,045 sq. m., p. (est.) nearly 80,000,000;
traversed by Yang-the-Khuig.
Secunderabad, Brit. mill. cantonnent (largest in India) in Nizam's Dominions, nr. Hyderabad, p. (of cantonness considerable species.

mt. 6,000) of t. 30,000.

Sedalia, c. on prairie in Pettis co., Missouri, U.S.A.;

rlwy, contre and works, p. 16,054.nce, nr. Mézières; formerly a strong fortress, scene of gt. German victy, over French army, 1870; weavg. indust., p. 19,520. Sedbergh, nkt. t. nr. Ingleton, W.R. Yorks, Eng.,

Sedbergh, mkt. f. nr. Ingleton, W.R. Yorks, Eng., p. 3,737.
Sedgiey, industri. f. nr. Wolverhampton, Staffs, Eng.; nail, rivet, chain, and lock works: p. 16,239.
Sedgmeor, nr. Bridgewater, Somerset, Eng.; James II. s victory over Moninouth, 1685.
Sedlitz, or Sedditz, will, nr. Saatz, Bohemin; noted for minl. water springs.
Seeland, or Zealand, 161. Denmark, betwn. Cattegat and Baltic, area (with isls. attached) 2,840 stj. m., p. 750,000; chf. t. Copenhagen (q. v.).
Seghill, f. nr. Newcastle, Northumberland, Eng., Sego, Lake, Russ. (ao m. by 20 m.), 30 m. N.W. of Lake Onega, outlet into White S.
Segoria, prov. of Old Castile, Spain, area 2,670 sq. m.,

p. 159,000; agr., stock-keeping, and manuf.; cap. S., walled & nr. R. Eresma; paper-making and flour-mills, artillery school, p. 25,000. [Gunrdamar. Segura, R. Spaln, flows (180-m.) to Mediterranean at Sehore, L. in native st. Bhopal, Centl. India; Brit. cantonint, fidqrs, of the Bhopal battallon), p. 7,6814. Selm, R., Russ., Tchernigov govt., trib. (300 m.) of R. Dena.

Desna.

Desna.

Seine, R. France, rising in Côte d'Or dep., and flowing 473 m. past l'aris and Rouen to the Eng. Channel at Havre; also dep. France (with Paris as cap), area 185 sq. m. p. 3,750,000 (less than 1,000,000 outside Paris); paper-m-dking, leather dressing, and agr., apart from the mustries of the cap. (See Paris.)

Seine-et-Marne, dep. N. France; area 2,273 sq. m., agr., stock raising, dairying, vineyds., p. 358,500 (increasg.); cup. Melun.

Seine-et-Dies, dep. N. France; area 2,185 sq. m., mkt. gding., vineyds., agr., p. 720,500 (considerably increasg.); cap. Neuer.

Seine-fifeieure, costs dep. N. France; area 2,448 sq. m., pastoral, grain growg. dairying, and manuf., p. 850,000 (increasg.); cap. Rouen.

Selangot, Malay st., under Brit. protectin., on W. side of Peninsula, p. 90,000

Selangot, Many II., under Brit, protectin, on W. ande of Peninsula, p. 90,000.

Selby, mkt. and industri. I. on R. Ouse, W.R. Yorks, Ling; anc. abbye ch. p. 90,00, [750 in. to L. Baikal, Selenga, R. Mongolia and Trans-Baikal, Siberia, flows Selenghinsk, Old and New, 100 I.'s prov. Transbaikala, F. Siberia, on opp. banks of R. Selenga; tormerly mapt. tr. centres with China.

Selkirk. India 20. Scotl. between Mulchthian and Dum.

Schirk, hid co. Soot, between Mullothian and Dumfree, Pecbles, and Roxburgh; area 269 sq. m., agree, feliny, oa growg), weave, etc., p. 24,600; cap. S., on Ettrick Water, one of the Hawick Burghs, p. 5,886, Selma, c. on Alabana, K., Dallas, co., Alabana, U.S.A.;

m cotton-growg, d st., p. 9,014 (more than half

Selston, unlustri. vi. Notts, Eng. nr. Mansfield, p. Selzerbunnen, nini. spring nr. Grosskarben, N. of Frankfort in Hesse.

Frankfort in Hesse.

Semaphore, & nr. Adelaide, S. Australia; cst. wnt. pl.,
Semaphore, & nr. Adelaide, S. Australia; cst. wnt. pl.,
Semendria, & on R. Danube, Servia, betwin, the
Cataricts and Belgrade; old Roman settlement,
tri ingular castle nearly 500 years old, garrison, fine
grape growg. dist., gd. tr. in white wine and pigs, 1. 7,024. Semenovka, or Semionovka, t. in Chernigov govt., Rus., nr. Gomel, leather industry, impt. fairs, p. 16,638

Semipalatinsk, prov. Russ. Centl. Asia, in Steppes governor generalship; area 184,631 Sq. m., p 842,000, m.mily Kirghiz nomad stock-keepers, bee-keepers, and peasants; cap. S., t. on the Irtish R., busy tr.

centre, p. 30,000.

Semiryechenski, prov. Russn. Turkestan, S of Semipalatinsk; area 152,280 sq. mi, p. nearly 1,190,000 (three-quarters Kirghiz, half of the remainder Russian; including many Cossacks), agr., stockraising, bee-keeping, carpiet and other manuf; cap. Vyernyi, winters very cold in the Balkhash Steppes.

Semiin, fort A. Slavonia, nr. Belgrade, on R. Danube; and tr. with the Balkass p. 14, 162.

Vyernyi, winters very cold in the Balkhash Steppes, Semilin, for t. Slavonia, nr Belgrade, on R. Danube; gd. tr. with the Balkans, p. 14,150.
Seneca Falls, vvi. on R. Seneca, at the Falls (50 ft. high), New York, U.S.A.; manuf; p. 7,246. R. Seneca receives the waters of Seneca Lake (36 m. by 2 m.), also of Cayuga and other lakes.
Senegal, R. Western Africa, formed by the union of R.'s Bafing and Bukhoy, and flowing alst. 1,000 m. from the Kong mins. W and N. W. to the Atlantic at St. Louis, above Cape Verde. Also name of French col. in W. Afr. betwn. R. Gambia S. and the Sahara N., and stretching from the French Soudan E. to the Atlantic on the W.; area (alst, 80,000 sq. ni.; p. (est.) 1,250,000. Cap. St. Louis (a.v.). [5,680. Senjen, tid. off N.W. ost. Norway, 45 in. by 20 mi; p. Sennaar, dist. Soudan, N.W. of Abyssinia, on the Blue Nila, below Khartoum, an Egyptian prov. prior to the Mahdist revolt of 1881; area 60,000 sq. ni.; inhabitants princ. Arabs and negroes of the Fungitiribes. Cap. Sennaar, c. on Blue Nile. Sens. 6. on R. Yonne, Y dep., France; the anc. Agedincum; fine cathedl.; p. 14,864.

Centl. Provz., Brit. India; area 3,198 sq. m., mainly forest; p. 32,000 (decreased by famme). Cap. S., t. halfway betwn. Nagpur and Jublulpore; p. 12,000. Also name of a t. in Hoshangabad dist., Centl.

Provs., India; p. 6,850.

Seoul, or Hanyang, chf. £. Corea; p. (est.) 200,000.

It stands on the Han R., and Chemulpo is the port.

It stands on the Han R., and Chemulpo is the port. Sepaiszentgyvirgy, industrial L(with medicinal springs) in Haromszék co., S. Hungary; p. 7,480. Septimer, with. Pass in Swiss Alps, nr. Chur, cant. Grisons, aft. 7,611 ft.

Seraing, L. in prov. Liége, Belgium; extensive iron-Serajero, or Bosnia Seral; cap. Bosnia prov., Austria-Hungary.

Serampur, L. in Hooghii dist., Bengal, India, on rt. lank of R. H.; former Danish Settlement, sold to Britain in 1845; i tute and paper mith; p. 40,500. Serdofsk, L. in Saratoff govt., Russ.; grain tr. 1,4,112.

[18,646.

14,112, [18,616]. Serena, f. nr. Coquimbo, Chili, on Pacific est; p. Seres, Serros, or Siros, f. nr. R. Struma, Roumelia, Turkey; cottou tr. and carpet manuf; p. 30,000 (half Bulgaria:s). Sereth, R. Moldavia and Bukowina, trib. (299 m) of R. Danube; also f. in Bukowina, on R. S., 24 m. S.E. of Czernowitz; p. 7,860. Serghinsk, Upper and Lower, f.'s of E. Russ., govt. Perm, nr. Ekateriaburg; unpt, ironwks.; joint p. 2000.

30,000

30,000.

Sergipe, cst. prov. Brazil; area 15,000 sq. m.; sugar and cotton crops; p. 400,000 (three-fourths negrous).

Cap. Aracaju; Sergipe (or São Christovão) is a t. in

the prov.; p. 20,000.

Seringapatam, c. on Kaveri R., Mysore, India; famous for its shrine of Vishnu, its fortress, palace, and Hyder Ali's mausoleum; p. 13,000. Here Tippuo

Sahih was slain in 1790.

Serpukhov, t. on R. Nara, govt. Moscow, Russ.; sacked by the Tartars in 1382; leather and cotton trade; p. 29,814. [peak 6,000 ft. Serra da Estrella, min. range Beira, Portugal; highest Serra de Monchique, min. range N. of Algarve, alt.

4,079 ft.

4.079 ft.
Servia, an indept. kingdom, admg Bosnia, Bulgaria,
Macedonia, and Kossova, and divided by R.'s Danube
and Sava from Austria-Hungary on the N.; area. Jr.
44,000 st., m.; p. some 5,000,000. At the close of the
Balkan War (1922-3) Servia was allowed to absorb
the whole of Old Servia, thus nearly doubling both
territory and population 1 cap. Belgrade (47.0).
Seate Elorenting, f. m. Elorence, Linky in (communal

Sesto Florentino, f. nr. Florence, Italy, p. (commune) 14,500. [p. 11,860. Sestri Ponente, spt. nr. Genoa, Italy; shipbuilding; Settle, mkt. t. on R. Ribble, W. R. Yorks, Eng., nr.

Settle, inkt. I. on R. Ribble, W. K. 1978, Eug., inf. Skipton; caves with remains of extouct 'auna; p. 2,350. Setubal, I. on R. Sado, Lisbon dist., Portugal, boatbildg., fishing, sardine-curing, etc.; p. 23,018. Sevastopol.—[See Sebastopol.]
Sevenoaks, mkt I. and residth dist. Kent, Eug.; fine parks, including Knole (Lord Sackville), Montreal (Lord Amherst), and Wilderness (Lord Hillingdon); v. for with dist lord.

(Lord Ammerst), and Widerness (Lord Hillingdon); i. (of urban dist.) 9,18d N. Wales; rises in Montestingomery-h, and flows (180 m.) to Bristol Channel; also R. Canada, flows (30 m.) to Hudson Bay. Sevier, Lake, Utah, U.S.A.; area 150 sq. m., 125 m. S.W. of Gt. Salt.

S.W. of Gt. Sait L.

Seville, prov. Span; area 5,459 sq. m; agr, mining: p. 590,000. Cap. S., c. on R. Gu utalquivir; splendid Golflic cathedral; exports lead, from quick-liver, cork, oranges, wine, etc.; artillery works, procedam, manuf., spirit distilleries, silk and tobacco factories; p. 130,000. [cole-brated porcelam manuf.; n. p.124.

Sevres, f. on R. Sente, dep. Senne-et-Oise, France; Sevres, dew. K. France; area 2,338 sq. m. (mainly agr.), p. (declining) 339,000; catp. Niort. (g. v.). Seychelles, group of 9 sm. Brit. fviz. Indian Ocean, formerly dependt. Mauritius, now a separate Crown colony; largest isl. Mahe, princ. Port Victoria; total area 148 sq. m., p. 22,69;

Seymour, c. Jackson co., Indiana, U.S.A.; manuf.; p. Seyne, or La Seyne-sur-Mer, t. nr. Toulon, dep. Var, France; shipbulding; p. 82,000.

Shabatz, t. on R. Sava, Servia; old castle; exports

fruit, cattle, coal and pigs, principally to Hungary; p. 12,500. [trade; p. [with subs.] 18,500. Shadrinok, t. on R. Iset, govt. Perin, Russia; corn Shaftesbury, ber. Dorset, Eng., 19 m. W.S.W. of Salishury n. 1802.

Shaftesbury, ber. Dorset, Eng., 19 m. W.S.W. of Salisbury, p. 1973.
Shahabad, dist. Patna div., Bengal, India, area 4,365 sq. m., p. (nearly) 2,000,000; cap, and administrative hddys., Arah: also t. in Hardoi dist., Oudh, p. 18,890; also t. in Ambala dist., Punjab, p. 10,045; also t. in Rampur st., N.W. Provs., p. 8,464. [1,1246. Shahapur, t. in Sangli st., Bombay Pres., India, p. Shahiahapur, t. in Konlikhund div., N.W. Provs., India, area 1,744 sq. m.; cap. S., t. on R. Deoha (with mility. cantonnit.), p. 76,000; also t. in Gwalior, India, 60 m from Indore, p. 9,564. Shahpur, dixt. Rawalpund div., Punjab, Brit. India, area 4,840 sq. m.; p. 500,000; cap. S., t. ur. Jiedum, p. 0,514. Shahpura, c. S. st. Rajputana, India, p. 10,818. Shahrid, R. Irab Ajem, Persia, joms the Kizh-Uzen; also t. u. Shahirdd, Boxdan prov., Persia, nr. Astrabad, consid. tr., p. 10,000.

consid. tr., p. to,co.

[12,816]
Shalkpura, r. in Monghyr dist., Bengal, India, p.
Shamaka, Old, r. in govt. Baku, Transcaucasia, Russ.,
on trib. of the R. Pirvagal, once a flourishy. common,
pl., destroyed by Nadur Shah, and sevl. times over-

ph., destroyed by Nadir Shan, and sevt times over-thrown by earthquake, prest, p. 29, 500.

Shamokin, bor, on Shamokin Creek, Northumberland co., Penn, U.S.A., rou-mitg, centre in authracite coal regn., p. 20,542.

Shanghai, spt. c, on Wu-sung R., prov. Kiang-Su,

China, open to foreign tr., most impt, of the Chine treaty ports, immense export silk and tea, estimated p. 670,000, including 6,800 foreigners (2,700 British). Shang-i-Yuen, / or Ning-Po, Che-Kiang prov.

Shang-d-Yuen, 7 or Nong-Po, Che-Riang prov. Chuna, Ingett, p. 55,000.
Shanhai-Kwan, 2 and 2017, with garrison, Chiliprov., Chuna, on rly, frou Pekin to Manchuria and the Luotung G., the limit of the Russian sphere of influence defined in treaty of 1800 with Great Brit.
Shanklin, 581.7 or. Ventior, isle of Wight, picturesque was also be feasible the force.

Shanklin, cst. t. nr. Ventnor, Isle of Wight, picturesque wat. ph., p. (readent), 4.751.

Shannou, R. Ireland, separating Connaught from provs of Leinster and Minister, and flowing to Atlantic (254 m.) at Loophead.

Shan-Si, inid. and hilly \$\rho v\nu \text{N}\$ China, touching Mongolia, and bounded W. and S. by R. Hoang-Ho, area 70,000 sq. m., p. 10.750,000; cap. Tal-yuan. Shan States, native six. in Farther India, partly under Brit, cale in Burna, partly indept, and partly under Sianese domination. (See Burna and Siam.)

Shan Tung, maritime \$\rho v\nu \text{C}\$ Clima, on the G. of Pechi-li and the Yellow Sea, area \$5,777 sq. m., 9,30,000; contains on the cst. the treaty port of Chifu, Wei-hai-wai [leased to Britt.], and kiao-chau (the German sphere of influence); cap. T-i-nan, large D. 30,500.000: contains on the est, the treaty port of Chifu. Wei-hai-wai (levesed to Britan), and kiae-chau (the German sphere of influence); cap. Tsi-nan, large inid. c. nr. the Heang-Ho. [Canton, p. 50,000. Shao-Chow, c. Kwang Tung prov. China, M. of Shao Hing, c. Che-Kiang prov., below the B. of Hang Clau and the treaty pl. of Siao-Shan, p. 50,000. Shari, R. of French Soudan, West Africa, flows from the S. (about 700 m.) in L. Tchad, navigable for greater part of course.

Sharon, E. Mercer co., Penn, U.S.A., ironwist, p. Sharpness, 9t. co. Gloucester, Eng.
Sharpsburg, t. on R. Allegheny, Penn., U.S.A., in colly, dist., p. 8,140.
Sharpsburg, t. on R. Allegheny, Penn., U.S.A., in colly, dist., p. 8,140.
Sharpsburg, t. on R. Allegheny, Penn., U.S.A., in colly, dist., p. 8,140.
Sharpsburg, t. on R. Allegheny, Penn., U.S.A., in colly, dist., p. 8,140.
Sharpsburg, t. on R. Allegheny, Penn., U.S.A., p. 5,468.
Sharpsville, t. nr. Sharon, on the Shenango R., Penn., Sha-si, c. and river port on the Yangtsze, prov. Hupeh, China; open to foreign tr; p. 800.00.
Shat-el-Arab, R. at head of Persian Gulf, Asia (120 m.) formed by union of Tigras and Euphrates.
Shatista, t. nr. Salonica, Roumelia, p. 9,800.
Shatel, c. in grazing dist, Tau-boff govt., Russia, in: Morshamk; grain tr.; p. 15,120.
Shately, c. kowing govt., Russia, in: Nuttau, p. 14,176.
Sheborgaa, c. on L. Michigan, Wisconsin, U.S.A.; furniture inannif, p. 20,470.
Sheeches, R. 19t. and garrison t. 1sie of Sheppey, Kent, Eng.; dockyard; p. 27,494.
Sheepladd, industri c. W. R. Yorks, Eng., on R.'s Sheaf and Don; gr. cutlery and steel manuf. centre; p. 1est. 1910. 454,653.

Shehr-i-Subz, industri. f. nr. Samarkand, Asiatic

Russ., p. 38.460.
Shelbyville, t. on Big Blue R., Indiana, U.S.A.; mftg. centre in colly. and agr. regn.; p. 8.215.
Shelf, adustri. t. nr. Halifax, W.R. Yorks, Eng..

Sheil, Mudsatt J. Hr. Hadida, W. K. Torks, Eng., 19. 2,343.
Sheilley, mftg. t. nr. Huddersfield, W. R. Yorks, Eng., Sheilharbour, bor., co. Camden, N.S.W., p. 2,54.
Shemaka.—(See Shamaka, Old.)
Shenandoah, t. m Schuylkill co., Penn., U.S. A.; in anthracite coalfield; p. 25,774; also R. Virgmua, U.S. A., trib. (200 m.) of R. Potomac.
Shenadamangalam, t. in Salem dist., Madras Pres., India. n. 8, 200

Shendamangalam, A. in Salem dist., Madras Pres., India, p. 18,120.
Shen-Si, prov. N.W. China, W. of Hoang-Ho R.; area B1,222 sq. ni, p. 8,500,000; cap. Si-ngan.
Shepherd's Bush, residentl. sub W. Loudon, Eng., p. 7,814.
Shepherdy, industri. par. nr. Huddersfield, W. K. Shepparton, A. Victoria, x18 m. N.N.E. of Melbourne, c. (1812), x19.

Shepparton, Vettoria, 110 in. N.N.E. of Melbourne, p. (dist.) 4,117.

Sheppey, Isle of, dist. N. cst. Kent, Eng., at mth of R. Thames; 9 m. long, 5 m. wide; p. 23,468.

Shepton Mallet, mkt. L. nr. Wells, F. Somesset, Eng., Sherborne, mkt. L. Dorset, Eng., p. 5,054. [P. 5,051.

Sherbrooke, c. at conflu, of R. S. S. Francis and Magog, Quebec, Can.; woollen and cotton manuf.; p. 17,224. Bignaur dist., N.W. Provs., India, Sherman, t. in Grayson co., Texas, U.S.A.; tr. in locally produced cotton and corn; p. 11,825. [p. 16,014

speany produced cotton and corn; p. 1,185. Sherwood Forest, anc. royal woodland, Mid-England; remains; nr. Mansfield and Nottingham. Shetland, or Zetland, isls., Scottld., 50 m N.E. of the Orkneys; about 100 in group, chf. isl. Mamland (q.w.); what were greated in a group of the Lawsell and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of

Orkneys; about 100 in group, chf. isl. Mamland (g.w.); total area 551 sq. m. p. 27,911; chf. t. Leruck, Sheyenne, R. Dacota, U.S.A., trib. (295 m) of Red R. Shields, North. (See Tynemouth.) Shields, South, 19t. co. Durlam, Eng., m. Parly. div. Jarrow; shipbuilding and colliery centre; p. 108,049.

Shifnal, mixt. A. m. Shrewsbury, Shropsh., Eng., p. Shigataé, t. between Gyantse and Llassa, Tibet, p.

Shikarpur, dest. Sind, prov. Bombay, India, area 9,306 sq. m., p. (increase), 1,068,500; cap. S., t. on R. Indus, carpet manuf., large tr.; p. 54,116; also S., t. in Bulandshar dist., N.W. Provs., India, p. 11,025, Shikohabad, t. in Mampuri dist., N.W. Provs. india,

13,000,000. Shikoku, i.i. Japan, S. of Hondo, area, 7,031 sq. ni., p. Shildon, c. nr. Bishop Auckland, Durham, Eng.; rly.

Shikoku, ££, Japan, S. of Hondo, area, 7,031 5d, In., p. Shikoku, ££, ar. Bishop Auckland, Durham, Eug.; rly. wka.; p. 13,489.
Shilika, R. E. Siiheria, trib. (760 m.) of R. Amur.
Shilika, R. E. Siiheria, trib. (760 m.) of R. Amur.
Shilika, R. E. Siiheria, trib. (760 m.) of R. Amur.
Shilika, R. E. Siiheria, trib. (760 m.) of R. Amur.
Shilika, R. E. Siiheria, trib. (760 m.) of R. Amur.
Shilika, P. E. Siiheria, trib. (760 m.) of R. Amur.
Shilika, P. Africa, headstream of R. Nile, flows 300 m.
to L. Victoria Nyanza.
Shimoda, 49t. Hondo isl., Japan, p. 11,000.
Shimoga, 4tst. Nagar div., Mysore, India, area 3,985
sq. m., p. 53,000; cap. S., t., p. 12,238
Shimonoseki 49t. S.W. point Hondo isl., Japan, p. Shing-King, Chma. (See Liao-Tung.)
Shing-King, Chma. (See Liao-Tung.)
Shing-King, Chma. (See Liao-Tung.)
Shing-King, Chma. (See Liao-Tung.)
Shing-King, Chma. (See Liao-Tung.)
Shipa-Pass, over the Balkans, 47 m. N.E. of Philip-popolis; held by Russus, against Suleiman Pasha in the Turkish War, 1877.
Shipler, worsted mfig. £ on R. Aire, 32m. W. Bradiotrd, W.R. Yorks, Eng., p. 27,710.
Shipa-Baburg, £ Penn, U.S.A., 10 Cumberland co.; industrl.; P. 5,116.

Shippensburg, t. Penni, U.S.A., in Cumberland co.; industri. ip 5.116.
Shipston-on-Stour, mkt. t. Worcestersh., Eng., p. Shirag, c. cap. Farsistan prov., Persia, beautifully sitd. in wine-grwg, dist.; seat of culture in Middls Ages; devastated by earthquake 1824 and 1853; p. 34,100.
Shirag, R. of Africa, flows (380 m.) from L. Nyassa to R. Zamibes; on it are the famous Murchison Falls, up to which the R. is navigable.
Shirehampton, vri. on R. Avon, co. Gloucester, Eng., 5 m. N.W. of Bristol, p. (dist.), 34:6. [p. 8.876.
Shirley, t. Hants, Eng., adjng. Southampton, on N.W.,

Shirwa, or Chilwah, shallow L. nr. Nyassa, and E. of Shiré R., Africa, so m. long, 14 m. wide; has 4 leks. Shklov, dist. 4 on R. Dnieper, Moghilev govr., Russ.; tr. in agr. prod. and manuf. gds.; p. 11,400. Shoa, S. state Abyssinia, S.E. Amhara, p. 1,500,000; cap. Licheh.

cap. Licheh.

Shoalharen, R. of N.S.W., flows 260 m. to the Pacific.

Shocburyness, vid. on N. side of Thames estuary,

Essex cst., Eng.; artillery ranges; p. 5,006.

Sholapur, dist. Deccan div., Bombay, Brit. India,
area 4,542 sq. m.; agr. (with cotton manuf. at Barsi,
nr. the Nizam's Dominions!; p. 795,000; cap. S., t.

104 m. S.E. of Poona; large bazzar, temples, &c.;

164 m. S.E. of Poona; large bazzar, temples, &c.; p. 76,40.
Shoreditch, bor. Middlesex, Eng., in E. London; in-Shoreham, wet. pl. W. of Brigition, Sussex, Eng.; a old spt. and market t., p. 7,50.

[Kent, Eng. Shorncliffe, mulitary encampmt. S.W. Folkestone, Short Heath, industri. t. nr. Wolverhampton. Staffs.

Eng., p. 4.077. [200 ft. Shoshonee Falls, on Snake R., Idaho, U.S.A., alt.

Shotts, mining per. nr. Glargow, Lanarksh., Scott, p. 17,211. [cuttre in cot. lon.;rowing dist; p. 28,146. Shreveport, c. Caddo cot. lon.;rowing U.S. A.; mfrg. Shrewsbury, len. cot. Chapter, len. cot. Chapter, len. cot. Shrewsbury, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. chapter, len. cha tr.; p. 20,389.

tr.; p. 20,329.

Shropshire, or Salop, N.W. midland co., Eng., bordering on Wates; area 1,343 50, m.; fine pastoral country with hills and woodland, ag. and dairying, mining and manufs.; p. 26,326; cap. Shrewsbury.

Shumla, forfd. A Bugaria, fo m. 5, E. Rustchuk; shipper and cloth manuf., occupied by Rusans. 1878;

Silpper and com-p. 23,876. Shusha, industrl. I. Russn. Transcaucasia, 87 in. 5.5.E. of Elizabethpol; silk-weaving and leather manuf.; p. [p. 21,158.

Shuster, t in Khuzistan, Persia, nr. Dezful; gd. tr.; Shwebo, dist. Sagaing div., Upper Burna, area 8,376 sq. in.; rice and Pari palm sugar growg.; p. 300,000. Shwedaung, t. in Pegu div., Lower Burna, on R.

Shwedaung, 7. in Fegu ur., Lower Intrins, on a Trawah, p. 13,146.
Sialkot, dist. Rawahandi div., Punjab, India, area 1,9915q m., p. 1,160,000; cap. S. t. 72 in N. E. of Lahore; paper, cotton-cloth, and shawl-odging manuf, military cantoninent; p. 81,648
Siam, dry. Indo-Chinese Penins, betwn. Lower Burma and the Shan States, the Malay Penins., Cambridge and Annual Linear Section 52 in 1, 1997, pro-

Burma and the Shan States, the Malay Pennis., Cambuodia and Annan; area 105,000 sq. m.; princ, product rice; p. 6,50,000; cap. Bangkok (q. v.).
Siberia, (evr.) of Asiante Russ. from the Ural Mins to Sea of Okhotsk and Behring Strat, washed by the Arctic on the N., and bounded S. by Mongola and Turkestan, area 4,83,465 sq. m., p. (est.) & 6,000,000; climate mostly very severe, but has wonderful summer productivity in par, to vast mini. wealth; namy great waterways and rly. connectn. N. and S; lowlying plain N., interior a plateau traversed by min. chains, with large lakes; agr. pasturage, forestry; many large towns; chl. Tomsk (cap. W.) and Irkusk (cap. E. S.). The p. includes many thousands of political and other exiles from European Russ.

Sibonga, & in Zebu, one of the Philippine Isls., p. Sibonga, & Hooghli dist., Bengal, India, subn. to Howrah (o v l.

Howath (qv).

Sibsagar, dv. Brahmaputra Valley div., Assam, India, area 2,855 sq. m., p. (rapidly increase). 610,000; flourishing tea-garden area, cap. S., t. on Dkhu R.,

p. 5,500. Sicily, the largest ist of the Mediterranean, former Sicily, the largest ist. of the Meditorranean, former Kıngdom and pres, compartment of Italy, area 9,335 sq. m., produces corn, oranges, olives, silk, sulphur, and salt; beautiful climate, elevated and minous, highest pt. the volcano Mt. Etna (p.v.), p. 3,750,000; chf. t. Palermo, Catania, Messina, ail of which see Sidcup, vil. and res. dist. London, p. (dist.), 9,140. Sidlaw Hills, low meth. range Perthsh, and Forfarsh, Scotl.

[Eng., at mith of R. Sid, p. 5,632. Sidmouth, mkt. t. and weat. pt. nr. Exeter, Devon, Sidmey. c. on R. Miami, Ohio, U.S.A., industri., p. 6,120.

6,120.

Sidon.-(See Saida.)

Siedica, govi. East Poland, Russ., area 5,535 aq. m.; agr., stock-kpg., and forestry, p. 85,600, cap. S., 40 m. E. Warssw, p. 55,000.
Siegburg, i. on R. Sieg, Born dist., Rhenish Prass., royal projectile, tobacco and other factories, p.

Siegen, f. on R. Sieg, nr. Cologne, Westphalia, Prusa, iron-uming and smelting, castles of former princes of Nassau, Siegen, p. 24,906.

Siemret, prov. Siam, at N. end of Lake of Cambodia,

grows poor rice, and has a p. of only ro,000, and a chf. t. with but s,000 inhabs., but famous for the great ruins of Ankor, now covered by dense forest, and the extensive remains of Nakawn Luanq, cities of the Khmer race which flourished from the 8th to

the 12th centuries.

Siena or Sienna, t. in Tuscany, Italy, 61 m. S. of Florence, many fine bidgs., university, cathedl, Palazzo, famous in development of architecture, ranzzo, tamous in development of architecture, industri., p. 30,000. [and colly. dist., p. 24,576. Slero, f. Oviedo prov., Spain, in agr., live-stock raisg. Sierra Leone, Brit. col. settlt., Senegambia, W. cst. of

Afr. area 30.000 sq. m., p. 1,37,509, cap. Freetown of St. George (p. v.).

Sierra Moema, mrn. range Spain, betwn. Guadal-quivi and Guadahna basins, inghest point, 5,500 ft.

Sierra Norada, mrn. range, pro. Granada, Spain, Inguest summit, Mulhacen (p.v.); also mith. chem, Californa, U.S.A., highest pk. Mt. Whitney, alt.

Sigmaringen, A on the Upper Danube, Hohenzollern

prov. Pross.; caste museum, p. 4866.
Sikkim, protected st. in the E. Himalayas, India, adjn. Thet, Nepsul, and Bhutan, area 2.818 sq. in.; has dense forests, with rich flora and Orchidacce, but grows rice and Indian corn m the clearances; p. 88,000; ch. t. Tuinlong.

Silchar, t. in Cachar dist., Assam, Brit. India, on R., Barak; hdqrs. Surma Valley Light Horse, p. 8,010. Silchester, par. Hants, Eng., betwn. Basingstoke and Reading; many int. Roman remains.
Silesia, prov. Fruss., bordering on Russn. Poland, area 15,565 sq. m.; rich in coal and iron, p. 5,250,000, c.np. Bresl us.

Cap. Brest u.

Silesia, Austrian, a crown id. and duchy of cisLeithan part of Austro-Hungary, area 1,987 sq. m.,
p. 760,560: collieries and dary turning, sith
flourising mitg. industries; cap. Troppiu.

Silistria, fortich l. on R. Danule, Bulgaria, below
Rustchuk; mitg. centre in vineyd dist., p. 12,570.

Silkstone, colly, vil. in. Panisley, W. K. Yorks, Eng.

Silloth, west. pl. on Solway Firth, Cumberland, Eng.,
p. 2,416.

p. 2,410. [p. 4,951. Sileden, industri, A. m. Keighley, W.R. Yorks, Eng., Silvas, the great forest plants of the Amazon, Silvar City, Alberta terr., Can., with sin. on C. P. Ry.,

Silver City, Alberta terr., Can., with stn. on C. P. Ry., og 8n ir from Winnipeg.

Silverdale, industri. dist. Staffs, Eng., adjing. New-Silvertown, industri. riverside dist. on Thannes, co.

Essex, Eng., in West Hampar., p. 6,120. [p. 10,000.

Silves, t. on R. S., Faro dist.; walled (with castle), Simbirek, growt. E. Russia, along right bk. of Middle Volga, area 19,110 sq. m.; mial. and agr., p. 1,90,000. mainly peasantry. Cap. S., t. lying betwn. the Rs. Volga and Sviaga; large tr., with famous horse fair.

horse fair. Simcoe, Lake, N. of L. Ontario, Can., 30 m. hy 18 m., discharges by R. Severn to Georgian Bay, I., Huron, Simferopol, t. in Taurida govt., Russa, Crimea, on R.

Simferopol, 4 in Taurida govt., Russa, crassea, on r. Salgint, nr. Schastopol, p. 20,000.

Simla, dist. Delhi div. Punjab, Brit. India, area noz sq. nr. p. 40,500 cap. S. t. (alt. 7,095 ft. above seal, summer res. of Indian Viceroy and staff of the Brit. govt., hills around clothed with deedars and rhootodendrona, the sanatorium of S. eccuples a spur of the Lower Hunalayas for about 6 m., and near are the subsidiary sanatoria of Kasauli, Dagshal, Sabathu, and Solon, and the cantonut. of Jutogh, p. (abt.)

Simia Hill States, a collectn. of 23 nat. Indian sts. surrounds, the sanatorium of Simia, area 6,569 sq. m.,

p. 557,000. Simon's Bay, Cape Col., Brit. S. Afr.; on W. side of Cape of Good Hope; has govt, arsenals and extensive dockyards; Simon's Town, on the Bay, is so as by rail from Cape Town. With the harbour and protecting forthcaths. It forms the strongest and finest naval stn. in the Southern hemisphere; p. (of t.) 7,240.

(of t. 17.240. Simplon, msn. Switzerld., alt 11,605 ft.; the pass over the Simplon (alt. 6,504 ft.) from Drono d'Ossola, Italy, to Brieg in the Rhône val., was originally made by Napoleon I. The Simplon ry tunnel from Visp on the Swiss side of the unt., to the val. of the Po at Iselle on the Italian, constructed with funds furnished by the two countries, consists of two parallel bores each abt. 60,000 ft. long, 57 ft. on the average apart, and connected by cross cuttings at

about every 670 ft.

Sinai, peninsula betwn. Gs. of Akabah and Sues, at hd. of Red S.; area 11,055 sq. m., mainly desert; Mt. Sinai (the Arab Tebel Musa, or "Mt. of Mosee"). called also Horeb, is one of numerous mins. on the

penins; alt. 7,36; ft. Sinala, sml. c. in *he Transylvanian Alps, Roumania, 15; in. from the Austrian frontier at Predeal; fashlon-alps unimer rest., with royal res. of Peles; p. 3,26; Sinalca, or Cinaloa, st. Mexico, on G. of California; area 33,681 sq m; agr and mining, rich in gold, silver, copper, iron, and lead; p. 286,000. Culiacan

(g.v.). Sind, or Schude, div. of Rombay Pres., India; formerly part of the Mogul Empire; area 53,898 sq. m., p. 3,500,000 Comprises dists. Haidarabad, Karachi, Thar and Parkar, Shikarpur, and the upper Sind Frontier, with the nat. st. of Kharpur, all of which see. Admin. hdqrs. at Karachi, spt. for the Indus val (q v.).

State (9.7). Singapore, Brit. 13.2 at S. end Malay Penin., part of the Crown col of the Straits Settlements; strongly fort; area 200 sq. m., p. 303, 322 (less than 4,000 Europeans). There is an Admirally dockyd., a

cathedial and fine Government bldgs. Singbhum, deet. Chota Nagpur div., Bengal, India; area 3,375 sq. m., p. 560,000, mcreasing; admin.

Penn , settled at beginning of 19th cent. by Chinese from Amoy, who went under Staniese protects, 1 p. 10,000, chiefly Staniese.

10,000, Chiefly Statinese,
Sing Sing, former name of the prison val. of Ossining,
Westchester co., New York, U.S.A.
Slrope, Turkish ε. in Kastamuni vilayet, Asia Minor,
on Black Sea, p. 9,140.
Sion, αρ Vilats cant. on R. Rhône, built en two
castled hills; cathedi. The Sionne torrent roars

past the picturesque c., p. 6,216. Sioux City, on Missouri R., Woodbury co., Iowa,

U.S.A., meat packing and various manufs., p. 47,808 Sioux Falls, & on Big Stoux R., Dakota, U.S.A., in

rich wheat right, p. 20,418. Siranganj, t. on R. Jumna, Pabna dist., Bengal, gt.

jute mart, p. 20,555. Sirl Pul, c. nr. Balkh, Afghan, Turkestan, p. 15,118. Surmur or Sirmoor, nat, hall st, Punjah, India, W. of the Jumna, area 1,108 sq. m., betwn. Simla and Mussoorie on the lower Hinalayas, p. 140,000; chf. t. S. (or Nahan), 40 m. S. of Simla, palace of the Raja,

p. 5,514. Sirohi, n.t. st. Rajputana Agency, India, area 1,966 sq. m., p. 154,000; cap. S., t. with sword manut., p. 6,014.

Sirsa, t. Hissar dist., Phinjab, India, hdgrs. t. of new absorbed dist. Sirsa, active tr. centre for Rajputana,

p. 17,114. Sis (the anc. Sision), chf. t Khozan Sanjak, vilayet Adana, Asiatic Turkey, on the Girgon Su, seat of an

Armeman Katholikos, p. 11,408. Sistova or Shistab, industri. A on R. Danube,

Sistova or Shistah, mdustri. L. on R. Danube, Bulg rrat, nr. Sumutza, p. 11.894.
Sitapur, dvv. in N.W. Oudh, India, compressing Suapur (area a.gs; so, m.) Kheni and Hardoi dists., area 7.555 so, m. p. 3.000.000; cap. S., t. on R. Sarayan, has smilly, cantount. p. 25.112.
Sitka, formly. Novo Archangelsk. L. of S.E. Alaska, on Baranoi Isl., in Sitka Sound, chi. pt. Russin. Amorica; gold mines and extinct volcano Mt. Edgecumbe near. D. 1.517.

cumbe near, p. 1,511.

Sittingbourne, mkt. t. on Milton Creek, nr. Canterbury, Kent, Eng., paper mills and brickwka., p. 852.

Sixt of Aasiout, t. on 1. bank R. Nile, Erypt, 227 m. Sivaganga, t. in Madura dist., Madras, India, industri, p. 8,004.

Sivan Turkish witeyer, Asia Minor, area 32,300 sq. m., rich in minerals, has mini. springs, with fertile graingrowg. 301, fine orchds. and vineyds., besides tunber forests, p. over 1,000,000; cap. S., t. in the Kull Irmak valley, nr. Tokot, a very old pl. with anc. architectl. remains and historic institus., once a Seljuk stronghold, sacked by Timstrins, once of the wealthy Armeman residts, massacred in 1895; pres. p. 4,000, three-fourths Moslems.

pres. p. 44,000, three-fourths Moslems.

Sivash or Putrid Sea, lagoon on E. side of Crimea.

Sivash or Putrid Sea, lagoon on E. side of Crimea.

Sival-Hissar, t. m Augora vilayet, Asia Minor, ur. the site of the anc. Pessmus; tr. centre, with many

Armenian residits, p. 17.474.

Sizager Rack, arm of N. Sez, giving access to the Cattegat, between Norway and Jutland, 70-90 m wide. Sizaw, The, or Cape Sizaw, a textrene N. of Denmark Sizaw, The, or Cape Sizaw, at extreme N. of Denmark Sizaw, The Cape Sizaw, a textreme N. of Denmark Sizaw, The Cape Sizaw, a textreme N. of Denmark Sizawa (N. S. Sizawa).

Sangawas, See, p., on Coast or Linconsin., Eng., p. 3875.
Skelmanthorpe, A. nr. Huddersfield, W.R. Yorks, Skelmersdale, A. nr. Ormskirk, Lanca, Eng., industri.; p. 6,822.
Skelton-in-Clevedale, mkt. A. nr. Guisborough, N.R. Skibbereen, mkt. and spt. A. co. Cork, Ircl., p. 3,612.
Skiddaw, mtn. Cumberland, Eng., E. of Bassenthwaite L., alt. 2004 ft.

L., alt. 3,054 ft. Skien, \$9t. on R. Skien, co. Bratsberg, Norway; saw-mills, ice, and timber trade; p. 12,860. Skipton-in-Craven, t. on R. Aire, W.R. Yorks, Eng.;

woollen factories; p. 12,981.
Skopin, f. in Ryazan govt., Russ.; corn, cattle, oil, and salt trade; flour nuils; p. 16,288.
Skowhegan, f. on R. Keiniebec, Maine, U.S.A.;

manuf.; p. 4,814. [Sippl. Skunk, R. lowa, U.S.A. (275 m.), trib. of R. Missis-Skye, largest of the Inner Hebrides, Inverness-sh.,

Scoti, area 54 sq. m.; sheep-farming and fisheries; p. 14,750. Only town, Portree (q.v.).
Slagelse, old & on isl. Zealand, Denmark; ruined

monastery; Knights Hospitaliers of Antvorskov; p. Slatins, t. on R. Olt, Roumania, 87 in, W. Blatons, et al. (D. 21-116). Slatins, et al. (D. 21-116). Sl

anc. churches; p. 8.244.

Slatoust, industri. \( \textit{L}\) in govt. Ufa, Astrakhan, Russ.;

Slave Coast, portion of Gumea coast, W. Africa, bordering on the Bight of Benin; divided between Britain, France, and Germany. [mercial; p. 18, 106. Slaviansk, \( \textit{L}\) on R. Toré, govt. Kharkov, Russ.; compliavonia, or Sclavonia, a crownland (with Croatia) of Hungary; area 8.695 sq. m., between the Millitry Frontier and the R. Drave; p. 1,250,000. Cap. Eszek (\( \textit{L}\) (\( \textit{L}\) (\( \textit{L}\)). Eszek (q.v.).

Eszek (g.w.). Steaford, mkt. t. Lincolnsh., Eng., p. 6,428. [10,048. Sileaford, mkt. t. Lincolnsh., Eng., p. 6,428. [10,048. Sileaforcht, t. on R. Meuse, S. Holland; industri.; p. Sileve Bloom, kill range King's and Queen's co. s., Irel.; linghest summit, 1,733 ft. Sileve Donard, mts. Irel., highest of the Mourne Mins., co. Down, alt. 2,796 ft. Silgo, coast co. Irel., Connaught prov.; area 737 sq. m., pasture, tillage, barren min., and turf; p. 78,890 (much dechned). Co. t. S., on Silgo Bay; fisheries; n. 11,162.

76,850 (much decimes, fisheries; p. 17,163. Sliven, or Slivno, ć. nr. the "Iron Gate," mtn. defile, Eastern Roumelia, Bulgaria; famous for black wine;

p. 25,000. Slobodakoi, f. on R. Vyatka, govt. V., Russ.; glue and

inatch factories: p. 11, 193.
Slonim, industri. A govt. Orono, Russ., p. 22,608.
Slongh, mkt. A nr. Windsor, Bucks, Eng., nr. Burnham Beeches, and comprising pt. of par. of Stoke Pegges (the village of Gray's famous "Elegy"), p.

14,985.
Sluia, or Sluya, vil. in Zealand, nr. Brugea; p. 1,812.
Sluia, or Sluya, vil. in Zealand, nr. Brugea; p. 1,812.
Smallenene, prov. Norway, on Christiania Flord, area
1,57 89. m., p. 110,415; cap. Frederickshald (g.w.).
Small Heath, industri. c adjoining Birmingham, Warwickshire, Eno.; hardware manuf.; p. 13,110.

Smallthorne, t. nr. Burslem, Staffs, Eng.; pottery;

Smalkhorne, c. nr. Burslem, Staffs, Eng.; pottery; p. 13,565.
Smethwick, mftg. c. Staffs, Eng., N.W. sub. of Birshinkow, c. on R. Moldau, Bohenia, Austria; manuf.; connected by bridge with Prague; p. 54,100.
Smith Sound, leads from Baffin Bay N. to Arctic O. Smith Sound, leads from Baffin Bay N. to Arctic O. Smoky Hill, R., trbl. (400 m.) Kanass R., Colorado and Kanass, U.S.A.
Smolemski, govit. W. Russia, lying E. of Moscow, area 21,638 sq. m.; forest, arable, and pasture; p. 1,950,000, mainly peasants; cap. S., c. on both banks of R. Dneiper; ry. and social centre, with some tr. and industries; p. 51,000.

industries; p. 51,000.

Smyrna, c. at head of Gulf of S., Asia Minor, one of the princ. ports and tr. places of the Ottoman Empire; exports figs, raisms, tobacco, carpets, rugs, etc. A very anc. and historic c., and the chief commercial

centre of the Levant; p. 350,000 (one-half Greek).
Snae Fell, highest min. in I. of Man, alt. 2,034 ft.
Snatth, nkt. I. W.R. Yorks, nr. Goole, on R. Aire,

Snatth, nkt. i. W.R. Yorks, nr. Goole, on R. Aire, P. 4.579.
Snake R., or Lewis Fork, trib. of Columbia R., flows 1.090 ni. from Wyoning to Washington, U.S.A. Sneehaetten, mrin., highest Dovrefield range, Norway, alt. 7.565, Fresland, Holland, nr. I.eeuwarden; indus-Sneeuwbergen, mrin. range Cape Colony, Brit. S. Afr., highest Compasberg, 8,500 ft.
Snlatyn, L. on R. Pruth, Austrian Galicia; tanning, horse and cattle fairs; p. 12,006.
Snlzort, Loch, am of sea [14 m long], cost of Isle of Snowdon, mrin. nr. Carnarvon, Wales [1 ighest in Eng. and W.] alt. 3,571 ft.

and W.) alt. 3,571 ft. Snowy R. (200 m ) N.S. W. and Victoria.

Snowy R. (200 mi) N.S.W. and Victoria.
Sobraon, w.i. on R. Sutley, Labore distr. Punjab, India;
defeat of Sikhs, 1836, p. 4,246.
Society-Isls, 2arch. on S. Pacific, betwn. the Low Arch.
and the Friendly Isls., under French protectn.; the
chief are Tahlti (or Otalente, g. v.), Raiatea, and
Eimeo; total area 650 sq. m., p. 23,410.
Socorto, J. Boyaca st., Colombia, p. 16,100.
Socotra, Brit. 187, in Indian Oc., S. of Arabia, and E.
of Cane Guardafuit, area 1,288 sq. m., mond alone

of Cape Guardafui; area 1,382 sq. m., prod. aloes

and dragon's blood, p. 4,800. Siderhamn, spt. on Dal-elf, nr. the Gulf of Bothnia.

Siderhamn, 59t. on Dal-ell, in: the Guit of Bothma, Sweden; timber tr., b 11,894.
Södermanland, 5707. Sweden, E. of Svealand and S. W. of Stockholm: area 2,631 sq. m., p. 100,853.
Söderteige, t. co. Stockholm: Sweden; summer rest., mull. springs and baths, p. 8,893.
Soerabaya, fortid. t. on N. cst. Java, opp. Madura 1st.;

naval arsenal, p. 130,000. [p. 140,000. Soerakarta, or Solo, t. in Java (nr. centre of isl.), Soest, t. nr. Dortmund, Westphalia, Pruss.; sugar

Soest, L. nr. Dortmund, Westphalia, Pruss.; sugar factories, p. 17,445.

Sofala, dist. Mozambique, Portuguese E. Africa, Nof Inhambane: by some identified with the "Land of Ophir" of the Bible; it is a pestiferous region, and reaches along the est. from Delagoa B. to the Zambesi; cap. S., at mth. of S. R., formerly a flourishg. commuc. place, prest p. 1,620.

Sofa, fortfd. L. on R. Isker, cap. Bulgaria, on a high plain 2,000 ft, above the sea, compassed by the Balkans; many industries, cathedral, morgue, university, royal mausoleum; the anc. Sardica, and the Triaditiza of the Byzantine Greeks, p. 75,000 (one-sixth lews).

Soham, mkt. f. Cambridgesh., Eng., nr. Ely, p 4,000.
Solgnies, Industri. t. on R. Senne, nr. Brussels,
Refglum, p. 10,516.
Solssons, fortfd. f. nr. Laon, dep. Aisne, France;
cathedl., rumed abbey; old Frankish cap., often
besteged; industri. and tr. m agr., produce, p. 13,495.
Sokat, f. on R. Bug, Austrian Galicia; silk manuf.,

p. 7,186. p. 7,196.

Sokoto, native st. of centri. Soudan, betwn. Bornu and Ganda; area 173,000 sq. m. p. (est.) 8,000,000: now included in Brit. protecterate of Northern Nigera.

Sokotra.—(See Socotra.)

Sokotra.—(See Socotra.)

Sokotra.—(See Manuel separaty. N. cst. of Isle Owight from the Hants mainland, Eng., from W. Cowes to

the Needles, Soleure, cant. N. Switzld.; area ass so, m., arable.

pastoral, and afforested; p. 202,500; cap. S., t. on R.

Aar, p. 8,500.
Sollerino, vs. nr. Mantua, N. Italy, battle 1850.
Solihull, mkt. t. nr. Barmingham, Warwicksh., Eng.,
p. 3.464.
Solingen, t. nr. Cologne, Rhenish Pruss., cutlery centre
Soliola, t. on L. Attlan Guatemala, anc. cap. of the
Cakchiquel Indians; cloth and pottery manuf.; p.

13,120.

Solomon Islis., an archipelago in the W. Pacific, abt. soo in. H. of New Guines, p. 170,000. [p. 15,240. Solor Islis., grp. 04 s.75. in Malay Arch, E. of Flores. Solway, Firth., arm of Irish S. (40 in. long), betwn. Duminessh., Kirkcudbright, Scotl, and Cumberland. Somaliland, "the Eastern Horn of Africa," betwn. C. Guardani and the Strate of Babel-Mandelb, S. to the Equator; Brit. Somaliland (or the Somali Coast Protectorate) stretches along the Guif of Aden; area 66,000 s.1, in.; cap. Berbera. The Italian Protectorate in Somaliland embraces about no costs. in. or terri-68,000 s.j. m.; cap. Berbera. The Italian Protectorate in Somaliland embraces about 70,000 sq. m. or terriin Somaliland embraces about 70,000 st, ni. of territory (including Gallaland) extending from the Juba R. northwd. to C. Guardafui along the coast, and bounded W. by Brit. E. Africa; French Somaliland, on the G. of Aden at the entce. to the Red S., is 40 m. long and about 125 m. wide.

Somerset, S. W. cst. co. Eng., bounded inland by Gloucester, Devon, Wits, and Dorset; are 7,650 sq. ni., pasture, arable, orchard, and woodland, with mines, quarries, and nanuf; 1. v. 48,004; mint. fisheries.

sq. m., pasture, arable, orchard, and woodland, with mines, quarries, and manuf.; p. 438-04; impt. fisheries. Co. t. Bati [q.w.).

Somerset, East, t. Cape Col. Brit. S. Afr., 80 m. W. Grahamis Town.

Somersworth, mitg. t. on Salmon Falls R., Strafford co., New Hampshire, U.S.A., p. 7,246.

Somerville, c. on R. Mystic, subm. to Boston, Mass., U.S.A.; varied manuf.; p. 77,545.

Somme, cst dep. N. France, area 1,423 sq. m.; mainly agr. with thrung textle industries; p. 538.000; c.4p. Alinens (q.w.). The R. Somme flows 116 in. in deps. Aline and Somme to Eng. Channel. [of L. Wetter. Sommen, Lake, of Sweden (25 m. by 8 m.), 15 in. E. Sommerfeld, t. Brandenburg, Pruss., on R. Lubus; cloth intg.; p. 12,544.

cloth intg.: p. 12.514.
Son, or Sone, R. cent. India, t. pl. (465 m.) of R. Ganges.
Sonderburg, 59t. and wat. \$t. on est. isl. Alsen,
Schleswig-Holstein, Pruss, castle (now mil. bar-

racks); p. 5.848. [hausen.]
Sondershausen. — (See Schwarzsburg-Sonders-Sondrio, prov. Lombardy, Italy, on frontiers Tyrol

Sondrio, prov. Lombardy, Italy, on frontiers Tyrol and switzlid; area, 1,295 sq. m., p. 136,540; Cap. S., t. on R. Adda, amongst Southn. Alps and nr. L. Como, silk industries, p. 9,021.

Sonneberg, £. in valley of Thuringian Forest, Saxe-Meiningen, Germy, ; £amous for toy infig.; p. 14,112.

Sonora, J. Mexico, on G. of California, area 7,622 sq. in., agr., cotton, frut, and tobacco growg, silver mining, p. 230,000. Cap. Hermossilo, p. 8,653; also S., vii. nr. Sacramento. California, U.S.A., in goldfield dist p. 2019.

dist., p. 2,016

Sonpat, t. ur. Delhi, Punjah, India, p. 13,884.

Sonpur, nat. st., Chhattisgarh div., Centl. Provs., India, area co6 st. m., p. 170.215 (decreased by famme).

area co6 st. m. p. 170.215 (decreased by famme).

Sonthal Parganas, The India (See Santal Soochow, or Suchau, c. csp. prov. Kangsu, China, treaty jort, silk weaving industry, and silk fabric

treary port, size weaving industry, and size fabric export, p. (estd.) 350,000.

Soothill, industri. transis adjing. Dewsbury, W.R. Yorks. Eng., p. 22,852.

Sopron, Soprony, or Oedenburg, Hungary. (See Sorata, i. 57 m. W. La Pag. Rohvid., p. 16,210, nr. are a pls. of the Andes, also called S., alt. 22,26 ft. and 21,043 ft.

21.043 ft.

Sorau, or Zorowe, t. on R. Sorchach, Pruss., nr. the
Sileskan frontier, cloth and lining weaver, p. 16.226.

Sorel, e. and port on R. St. Lawrence, Richelieu co.,
Quebec, Can., call port of Montreal and Q. river
steamers, shiphideg. p. 7,126.

Soria, prov. of Old Castile, Spain, area 5,836 sq. m., p.
(decing.) 149,000, agr. and cattle rearg., with cheese,
timber, wool and sait export. Cap. S., & on R.
Douro, walls and old castle, p. 7,504.

Soroki, or Soroka, t. on R. Dheister, gov. Bessarabia,
Russ., tr. in wine, corn, cattle, wool, and fruit, ruined

Genoese castle, relique of former col. Othionia, p.

Genoese castle, 'relique of former col. O'hlonia, p. 10,000 half Jews).

Soron, f. N.W. Frova., India, dist. Etah, gd. tr. 2.

Soronato, cst. f. nr. 3. extrem. G. of Naples, Italy, fav. wat. pl., ancly. celebrated for its fine wines, p. (commune) & gg. 5.

Sotteville, vst. nr. Rouen, dep. Seine-Inférieure, France, cotton-spinng, and calico mftg., p. 20,228.

Soudan, or Sudan, extensive but ill-dénied regn. Airica, reachg, trom Senegambia and the Atlantic to Abyssinia and the Red S., and from Salara and Nubia, N. to the Congo and Gunnea S., densely populated, largely by negroes. The Egyptian Soudan stretches from the frontier of the Khediwe's domain proper to L. Albert Nyanza N., and S., and from the

proper to L. Albert Nyanza N. and S., and from the Rod S., and Abyssinic to Wadai E. and W. Sound, The, channel betwn. the Cattegat and the Baltic, 9 m. across at narrowest pt. from Denmark to the Zealand cst.

Soungaria, dev. Chinese Empire, on N.W. frontier.

Soungaria, dev. Chinese Empire, on N.W. frontier, area 148,000 sq. ni., p. [approx] 500,000.
South Africa.—[See Brit. S. Afr.]
Southall, nut. t. Middlesex, Eng., pj. m. W. London; industri. and residit., p. 26,227.
Southam, nutt. t. nr. Warwick, Eng., p. 2,811.
South Amboy, spt. bor on Raritan Bay, New Jersey, U.S.A.; asphalt works; p. 6,817.
Southampton, 25% on Southampton Water, Hants, Eng., sin, for mail stimes. Indian and Col.; fine docks (inclide. largest dry dock in the world); p. (of parly. http://dx.dock.org/ DOT.) 140,200

DOT. 140,200.
South Australia, st, of the Australian Commonwealth; between West Australia and Queensland. New S. Wales and Victoria; 380,070 sq. m. mainly undulating or level; productive of great wheat cross. some gold, lead and copper; exports, corn, wool, and mutton; p. 496,529; cap. Adelaide. South Bend, c. on St. Joseph R., Indiana, U.S.A.; ayr, mipli manuf, and waggon bldg.; p. 53,684, South Berwick, f. Vyrk co., Maine, U.S.A., ar.

Portland, p 4,228. South Bethlehem, t. on Lehigh R., Penn., U.S.A.;

iron-works and ordnance factories; p. 14.728. Seat of Lengh University. South Blythe, t. nr. Morpeth, Northunberland, Eng., Southborough, residtl. t. nr. Tunbridge Wells, Kent,

South Brabant, prov Bolgium. (See Brabant.)
South Brabant, prov Bolgium. (See Brabant.)
Southbrage, mfig. t. Worcester co., on border of
Connecticut, Mass., U.S.A., p. 11,444
South Carolina, U.S.A., one of the original vtr. of the
Union, situate betwn. Georgia and N. Carolina on the Atlantic cst; area 30,170 sq in.; gt cotton, rice, and

Atlantic cst; airea 30,170 sq. m.; gt. cotton, rice, and tobacco output, p. 1,516,500; c4p., Columbia; clf. pt. Charleston (q.v.). [for potatees; p. 3,764. South Ca. e, par E. R., Yorks, Eng., nr. Huli; fainous South Chester, bor. Penn., U. S.A., nr Philadelphia; industri; p. 7,614. [field; industri, p. 3,124. South Crosland, t. in W.R. Yorks, Eng., nr Huddersouth Dakota, N. W. t. of the U.S.A., betwin. N. Dakota and Nebraska; area 77,850 sq. m., wheat growing; ip. \$84,500. Cap. Pierre. South Downs, range chalk hulls, Sussex and Hants, Eng.; yplendid pasturage.

South Baston, former bor. on Lehigh R., Penn., U.S.A., now mocroprated with Easton (q.v.).

U.S.A., now incorporated with Easton (q.v.).
Southend-on-Sea, wat pl. Essex, Eng., N. side of
Thames estuary, opp. Sheemess; very long pier;

p. 62,723.
Southern Alps, centl. pt. dividing range, S. isl. New Zeald.; highest pk., Mt. Cook (g.v.).

Southern Ocn., name at times applied to the ocean space between the Arctic Circle and the southern extremities of America, Africa, Australia, and New Zealand.

South Framingham, vil. Middlesex co. Mass., U.S.A.,

in Frammyham t. (q.v.), p. 3.116. outhgate, far. nr. Barnet, Middlesex, Eng.;

Traminguam (197.9), 16, 24100 Southgate, 9 far. nr. Barnet, Middlesex, Eng.; residentl, p. 33,673. South Georgia, uninhabited Brit. isl. of S. Atlantic O. (attached to Falkland Isls. 900 m. away), area 1,570 sq. in. mountainous, peaks (6,000 to 8,000 ft.) snow-covered. [land, Eng.; p. 6,816. South Gosforth, t. subn. to Newcastle, Northumber-

South Hackney, dist. Middlesex co., Eng., N. London, p. 44,118. [U.S.A.; p. 5,024. South Hadley Falls, vil. Connecticut R., Mass., London, p. 44,118. [U.S.A.; p. 5,024. South Hadley Falls, vil. Connecticut R., Mass., South Helton, dist. (colly.) pr. Sunderland, Durham,

South Heiton, arss. (cony.) Br. Susueriam, Burnen, Eng., p. 4,125.

South Holland, praw. Netherlands on North Sea: area 1,165 ag, m., flat and intersected by streams and dykes; p. 980,140; cap. The Hague.

South Hornsey, N. subn. dist. London, Eng.; residtl, p. 15,883.

Southlagton, s. on Quinnipiac R., Hartford co., Consecticut, U.S.A.; cutlery and metal manuf.,

p. 6,040.

p. 6,040.

bouth Kensington, dist. Middlesex co., in W. London; contains S. K. Museum, the Nat. Hist. collectn. of the Brit. Museum, the Imperial

Institute, etc.; p. 10,210.
South Kingston, f. Rhode Isl., U.S.A., p. 6,547.
South McAlester, c. of the Choctaw Nation, Indian Torr., U.S.A.; in coal mine dist; p. 4,816 (nearly all whites).

all whites).

South Maratha Jagira, grp. of 10 nat. sts., Kolahpur Agency, Bombay, India; area 2,734 sq. m., p. 530,000. [D. 2,742. p. 530,000. [p. 2,742. South Molton, bor, nr. Barnstaple, Devon, Eng., South Norwalk, c. at mth. of R. Norwalk, Fairfield co., Connecticut, U.S.A.; residentl., fine villas,

p. 7,020.
South Omaha, c. on R. Missouri, Doughs co., Nebraska, U.S.A.; gt. rlwy, and meat-packing

centre, p. 32,118.

South Orange, t. on R. Rahway, Essex co., New Jersey, U.S.A.; beautifully sit. at ft. of Orange

mtn.; residtl., p. 5,008. [Eng., p. 2,745. Southowran, industri. c. adjng. Halifax, W.R. Yorks, Southport, bor. and pop. cst. wat. pl., S.W. Lancash. Eng, on the Irish Sea, p. 51,650; also wat. pl. nr. Brisbane, Queensland.

South Portland, c. on P. Harbr., Cumberland co..

Maine, U.S.A., p. 6,814.
Southsea, dirt. S. of Portsmouth, Hants (g.v.);
narine rest, p. 48,415.
South Shetland, arch. in S. Atlantic, 600 m. S. Cape

South Shetland, arch. in S. Atlantic, 600 m. S. Cape South Shelds,—[See Shelds,]
South Stockton.—[See Stockton.]
Southwark, bor, Surrey, Fn.c. S. of Thames opp.
London City; wharves, warehouses, etc; p. 191,051.
Southwell, late. A losts, Eng., nr. Newark, Eng.; cathedral, lace and silk, p. 3,311.
South-West Africa, German, comprises Damaraland and Namaqualand, with cst. line of 800 m., total area 322,459 qt. in. p. 200,000. manily Bantu South-West Frontier Agency, India, old name of Clark.

Chota Nagpur stc., Bengal.

Southwold, ber. and met. Pl. nr. Lowestoft, Suffulk, Eng.; shrimp, sprat, and herring fishy., p. 2,655

Sowerby, Industr. L. nr. Halliax, W.R. Yorks, Eng., on R. Calder, p. 3,72; adjoins Sowerby Bridge,

p. 11,350.

Soyland, f. nr. Halifax, W.R. Yorks, Eng., p. 2,935.

Sozh, R. Russ., Chernigov govt., trib. (240 m.) of R.

Dnieper.

Dnieper. Spa, wat. A. nr. Liège, Belgium; picturesquely sit. amid wooded hills, res. p. 8,346; has Casino, visited by 17,000 persons annually during the scaxon. Spain, kingdom of the liberian Polin, S.W. Europe, area 196,171 sq. m., bordering on B. of Biscay, the Atlantic, and the Mediterranean; mountainous and well watered, with rich agr., grazing, and vineyd. dists, also consid, mini, wealth, manuf and fisheries impt., commerce are. impt., commerce gt., p. about \$6,000,000; cap.

Spalato, or Spalatro, c. of Dalmatia, Austria, on the Adriatic; large shipping and genl. tr., p. 29,115. Spalding, mkt. t. on R. Welland, Lincolnsh., Eng.,

p. 10,200.

Spandau, f at confin. R 's Havel and Spree, Pruss.;
gt. military centre, with school of mivketry, and
Red Tower containg, war chests, p. 70,500.

Spandsh Town, Jamaica, 10 m. W. of Kingston, on
R. Cobra, p. 7,125.

Sparta, Famous ane. c. of Laconia, in the Morea,
Greece, on the R. Eurotas; flourished from the 9th

cent. B.C. to 146 B.C., when it passed under Roman rule; also name of 25 places in the U.S.A., the most considerable being a c. of Wisconsin, on the La Crosse R., in Monroe co., p. 4,876. [p. 4,564. Spartanhurg, 147. S. Carolina, U.S.A., cap. S. co., Spartel, Cape, N.W. extrem. Afr., at entce. to Strait of Gibraltar, Morocco. [mune], 650. Spello, 4. nr. Foligno, Perugia prov., Italy, p. (complete, which was a spencer, t. Worcester co., curl. Mass., U.S.A.; shoemkg., wire-drawg., p. 8,118. Spencer Gulf, bay of S. Australia, 185 m. by 47 m. Spennymoor, mfg. t. co. Durham, Eng., nr. Bishop Auckland, b. 7,264.

Spennymoor, mfig. 2. co. Durham, Eng., nr. Bishop Auckland, p. 7,974.

Spey, R. Inverness, Elgin and Banff (the most rapid in Scott.), flows roy in. to Moray Firth.

Speyer, or Spires, c. cap. Rienish Bavaria, on R. Rhine; fine cathedl.; its famous Dret of 1590 condemning the Reformation gave rise to the term "Protestant"; p. 18,175.

Spezia, cst. c. Liguria, Italy, on B. of Spezia; arsenal, docks, and maritime industries; p. (commune) 66,500 [also spt. on same, p. 6,510.

Spezzia, itl. off S. cst. Argolis, Greece, 5 m. long; Spice Isls.—(See Moluccas.)

Spilaby, f. nr. Boston, Luncolush, Eng., p. 1,617.

Spinazzola, £. nr. Minervino, prov. Bari, Italy, p. 11,500.

Spitalfields, par. of Tower Hamlets, E. London, Middlesex, Eng.; industri (formerly a great silkwvg. centre), p. 33,498. Spithead, roadstead Portsmouth Harbr., Hants, Eng.;

also channel betwn. N.E. cst. Is'e of Wight and mainland

Spitzbergen, isl. grp. in Arctic Oc. betwn. Nova Zembla and Greenland; area abt. 28,000 sq. m., un-

Zeinbld and Greenland; area abt. 22,000 sq. m., un-inhabited, and claimed by Russia. Spirgen Pass, Rhetian Alps, betwn, Lombardy and the Grisons, Switzld, alt. 6,09 sf. Spokane, R. Idalio, U.S.A., flows (120 m.) to the Colum-hua at Washington; also L. on R. S., Washington, at the fall; gt. timber tr. and many manuf.; destroyed but fine 1850, but quicky repolity. In process.

the fall; gr. timber tr. and many manuf, destroyed by fire 18po, but quickly rebult; p. 105,000.
Spoleto, / nr. Terni, Perugua, Italy; truffle industry, old citade, p. 8,124.
Sporades, 454°. of the Grecian Arch, in the Ægean and neighbouring sea, belonging to Turkey and Greece, including Sames, Cos, etc.; see sep. entires, Spottsylvana Coart House, c. ca. S. co., Virgina, U.S. A.; scene of a great battle between Union and Confederate forces in American Cill War, 1864.
Spree, R. Saxony and Brandenburg, Pruss., flowing green meats Regulu to the Hand lat Spandan.

227 m. past Berlin to the Havel at Spandau. Spreewald, marsh of the middle Spree, Brandenburg

Sprieeweld, marris of the middle Spriee, Brandenburg prov. Pruss.; 27m. long, 1 to 9 m. wide; p. 30,000, clifty, vegetable grow my and pastoral peasantry. Spremberg, 6, on R. Spriee, Brandenburg, Pruss., 78 m. from Berlin; cloth manuf., p. 11,820
Springfield, c. on R. Counerticut, Hampden co., Mass., U. S.A., many manuf. p. 90,500; also c. on Sargamon R., Hilnios, U.S.A., gr., unplt. manuf., p. 51,002; also c. on K. Mad, Olno, U.S. A., agr., miplt. manuf., p. 51,002; also c. of Greene co., Missourl, U.S. A., flour milling, has Congregational college; p. 35,201. Springsure, mining r. in Drummond mtn. range, Queensland, p. 2,816.

Spring Valley, c. m. colliery region, Buroau co.

Spring Valley, c. in colliery region, Bureau co. Illanois, U.S.A., p. 7,826.
Springville, c. Utah, U.S.A., nr. Provo City, p. 3,120.
Spurn Head, C. N.E. Yorks, Eug., at mth. of Humber

Srinagar, c. on R. Jhelum, N. India; cap of nat. st. Kashaur; hes in the W. Himalayas, 5,263 ft. above sea-level; manuf. carpets, papier-maché, silver and

sca-level; manuf. carpets, papier-mâché, silver and copper ware. The famous shawl-weaving industry is practically extinct. (creat commerch centre; p. (c. and mmediate subs.) 122,000.

Srirangam, t. in Trichinopoli, Madras, India; noted temple of Vishni; p. 21,800.

Srivillipatur, t. in Tinnevelli dist., Madras, India, p. Sryetensk, Cossack t., Tranbaikalia, on railway in pictures/que valley of R. Shilka, Asiat Russ, p. 70,000.

Stade, t. nr. Hamburg, Hanover, formly, fortified, p. 20,512.

Staffa, isl. of the Inner Hebrides, 6 m. N. Iona, off W. cst. Mull, Scotl.; Fingal's Cave, 227 ft. long, with

cst. Mull, Scotl.; Fingal's Cave, 227 ft. long, with other basaltic caves.

Stafford, W. Midland & Eng., area 1,171 sq. m.; rich in iron and coal, the "Black Country "being famous; has also large Potteries dist. and many thriving manufs.; with extensive brewery concerns; p. 1,299,718; co. t. Stafford on R. Sow, iron and salt wks., p. 23,98; also Sq. t. Connecticut, U.S.A., 25m. N.E. Hartford, p. 5,284.

[D. 6,755.
Staines, mit. 4. on R. Thames, co. Middlesex, Eng., Staines, mit. 4. on R. Thames, co. Middlesex, Eng., Stainland, industri. 4. nr. Halifax, W.R. Yorks, Eng., P. A.446.

Stainland, industri. t. nr. Hahfax, W.R. Yorks, Eng., P. 449.
Stalybridge, t. in Cheshire, Eng., nr. Manchester; cotton-sping, weave, and troflwis: p. 26,544.
Stamboul, Turkish name for Constantinople 19, v.).
Stamford, mkt. t. on R. Welland, on border Lincolnish, and Northauts, Eng., p. 9,646; also c. Furfield co., Connecticut, U.S.A., on slore of l. ong Island Sound, p. 25,128.

[Astylalea; belongs to Turkey, Stampalia, tst. Greek Arch., so sq. m. arca; the anc. Standerton, t. on Vaal R., Transvaal Col., Brit. S., Alrica, p. 4,814.

[Eng.; industri, p. 7,280.
Standish-with-Langtree, t. nr. Wican, Lancash, Standope, mkt. t. Durlan, Eng., on R. Wear, p. 2,011.
Staninaka, t. on the Dérin Déré R., Philippopols dep, Bulgaria; wine t., p. 14:20.

Stannaka, 7. on the Derin Dere R., Philippopolis dep, Bulgaria; wine tr., p 1.423.
Stanislau, 6. on R. Bistritza, Austrian Galicia; tanning, dyemg, etc.; p. 32,446.
Stanislaus, R. California, U.S.A., trib. (200 m.) of the Stanley, 2d. adjoing, WAkefield, W.R. Yorks; large industri, centre, p. 13,586; also sml. spt., cap. Falkland Like

land Isla Stanley Falls, on the Upper Congo R., Africa, nr. the Equator, named after the explorer, the late Sir H. M. Stanley; also Stanley Pool, an expansion of the

Lower Congo, 25 m. long, 16 m. wide.

Stanthorpe, 4. in themne dist., Queensland, 184 m.

S.W. Brisbane, p. (dist.) 3.260.

Stapleford, mkt. 4. on R. Erewash, Notts, Eng.,

P. 3.84.
Stapleton, former vil. on E. cst. Staten Isl., New York, U.S.A., now incorporated in Richmond, one of the bors, of New York City.
Stargard, 1. (with old gates) Fomerania prov., Pruss.,

nr. Stettin, p. 28,240; ironfounding, sugar refining,

etc., large trasses, cossack t. on R. Don, nr. Novocherkassk, Russ : cattle fairs, p 11,560.

Starroi Oskol, t. on R. Oskol, Kursk govt., Russ.; tr.

Staroi Oskol, t. on N. Oskol, Rursk govt., Russ.; tr. centre in prairie regn., p. 12,180.

Start Point, C. nr. Dartmouth, Devon, Fing.

Stassfurt, industrl. t. nr. Magdeburg, Pruss., p. 18,144.

Staten Isl., the most S. point New York st., U.S.A., 14 m. long, constitutes Richmond co., 5 m. S.W. of N.Y. city: also isl. of Tierra del Fuego, 45 m. long. States of the Church, Italian territories ruled over by the Pope, in his secular capacity prior to 1800, now absorbed by Bologna, Rome, and other provinces.

Statesville, c. N. Carolina, U.S.A., in Italia 800, ft.

p 4.8:4 Staubach, in cant. Bern, Switzld, nr. Lauterbrunnen, Staunton, t. in upper Shenandoah valley, Virginia,

U.S.A., p. 7,350.

Stavanger, 19t. on the Bukkefiord, Christiansand,
Norway: margarine and preserved food factories,
woollen mills, fish curing and tunning, shipbldg., etc.;
p. 0,146.

p. 31,240.

Staveley, industl. f. nr. Chestorfield, Derbysh., Eug., Stavropol, govd. of Russn Caucasia, area 23,3954. m., agr. and stock-keeping, p. nearly 1,000,000; cap. S., t. 760 m. N.W. of Tilis, large trade, p. 46,40.

Stawell, f. co. Borung, Victoria, in the gold-ming. dist. p. 520.

Stawell, 4. co. Borung, Victoria, in the generalization, 5,340.
Steele, 4. in Rhenish Pruss, nr. Düsseldorf, p. 8,540.
Steele, 4. in Rhenish Pruss, nr. Düsseldorf, p. 8,540.
Steelen, b. 6r. on Suvquelanna R., nr. Harrisburg, Penn., U.S.A.; steel foundries, p. 14,115.
Stellalanda dr.t. in Crown Col. Bechuanaland, Brit. S. Stellanbasch, f. 25 m. E. of Cape Town, Brit. S. Afr., area 5,000 sq. m.; cap. Urijburg. [p. 5,210.
Stellenbasch, f. 25 m. E. of Cape Town, Brit. S. Afr., Stelvio Pass, Tyrolese Alps, on rd. to Innsbrück from Milan, alt. 6,045.
Stendal, f. ur. Magdeburg, Prussn. Saxony; cathedl., rly. wks., p. 18,863.

Stepney, industri. par. Tower Hamlets, E. London.

Eng., p. 280,024.

Steppes, Governor-Generalship of the test.

Russn. Centl. Asia, comprising the Kirghiz Ster.

and regn. round Oursk, formerly included in

and regn. round Olisk, formerly included in Siberia, area 755,793 sq. in., p. 3,500,000; cap. Omsk (g.w.)

(U.S.A.; agr. implt. mftg., p. 6,472. Sterling, c. on Rock R., co. Whitesides, Illinois, Sterlitamak, c. on R. Byelayd, govt. Ufa, Russ.; large cattle tr., p. 16,500, mostly Tartars. Sternberg, c. nr. Brunn, Moravia, Austria; textile manuf., p. 15,216.

Stettin, xd. at mouth of R. Oder on the largon

Stettin, 54, 320.
Stettin, 54f. at mouth of R. Oder on the lagoon Stettiner Haff, cap. Prussn. prov. Pomerania; mpt. manufs. and large trade; old castle and fine churches; formerly belonged to Sweden; shipbunding and iron

formerly belongied to Sweden; shipbuilding and iron industries very extensive; des p-water port at Swinemunde (e.w.). Hidgrs, and German Army Corps; p. (with subs.) 295,000.
Steubenville, c. on Ohio R., Jefferson co., Ohio, U.S. A.; mitty, centre in cod and natural gas region; p. 22,391. Stevenage, inkt, t or Hitchin, Herts, Elig., p. 4.866. Stevens Point, c. on R. Wisconsin, Portage co., Wisconsin, U.S. A.; timber tr., saw mills, etc.; p. 10,226. Stevenston, c. in collegely dist. fr. coast, Ayrsh., Scoth., 29 in. S.W. of Glasgow, p. 8,025. Steyer, in Justil. t. on R. Enns, Upper Austria, nr. Linz; lincycle and small army factories; p. 18,110. Steynsdorp, t. in Transval Col., Brit. S. Africa; cap. Komatic goldfield.
Stillwater, t. on St. Croix R., Washington co., Minne-

Komatie goldneid. Stillwater, 7, on St. Croix R., Washington co., Minnesota, U.S A.; large tunber and river trade; p. 12, 500. Stilton, 2n/. in Huntingdonsh., Eng., 6 m. S. W. Peterborough: famous for cheese. [Ballantrac

borough; famous for cheese. [Ballantrae, Stinchar, R. Ayrsh., Scotl., flows 30 m. to sea at Stirling, midland co., Scotl., bordering on F. of Forth: area 460 cq. m., p. 101,003 coal-mining and agr., with textile in.mis c cap. Striling, anc. burgh, over-tooking the Forth; p. 21,200, Near is the Albey Craig, with the Wallace monument, and the famous 'links of Forth' towards Alba, also the picturesque

Bridge of Allan.

Stockbridge, illkt. 2 on R. Test, Hants, Eng., p. 875;
also I. and Summer resort on the Housatome R., in
Berks co, Mass., U.S.A., p. 3 404.

Stockerau, J. con arm of the Danube, Kornenburg dist.,

Stockerall, 7. on arm of the Danuer, so remenuing dist., Lower Austria; large corn inkt, and number trade, with felt factories; p. 11,825. Stockholm, c. on 181s, at the outlet of L. Mælar, Sweden; cap of S, and called the "Queen of the Baltic" for the beauty of its surroundings. Royal palace, Houses of Parliament, national museum, old Franciscan church with toulls of kings and great men of Sweden. Commercial and industril, contre.

men or sweden. Commercial and memorif. Contre, with many acade me institutions; p. 350.000. Stockport, infrg. A. on R. Mersey, Chrisb. and Lancs. Eng. p. 16.503. [Eng., p. 7.00. Stock Ebridge, industri. A. nr. Sheffield, W.R. York, Stockton, industri. A. in San Joaquin co, California,

U.S A , p. 21253.

U.S.A., p. 2123.
Stockton-on-Tees, spt. and mkt. t. Durham, Eng.; great iron bindge connects the town with Thornaby and South Stockton across the R. (included in the parly, bor); p. 52,158. Impt. from and steel industries and large shipping trade.
Stoke-upon-Trent, county bor. (including Hanley, Stoke-upon-Trent, Fenton, Longton, and Stoke Rural), Staffordsh., Eng.; art clima and pottery;

Nutrition, 7danorum, Eng.: art tames are powers.

P. 234,525

Stoke Newington, dist. of Hackney bor., N.E. London, p. 50,683.

Stokesley, mkt. t. o m S.E. Stockton, N.R. Yorks, Stolberg, t. nr. Aachen, Rhenish Pruss.; an old Huguenot t. with flourishing iron, brass, and glass

Huguenot t. with flourishing 100n, brass, and glass manufs. p. 13,120.

Stone, mkt. f. Staffs, Fng., on R. Trent, nr. Stoke, Stoneham, f. in Muddlesex co., Mass., U.S.A.; boot and shoe factones; p. 6,252.

Stonehawen, 5f., wat. fl. and fishing f. Kincardineth, Stonehawen, 5f., wat. fl. and fishing f. Kincardineth, Stonehawen, prehistoric group of monumental stones on Slisbury Plain, Wilts, Eng.

Stonehouse, f. within the limits of Devonport, Eng., and forming with Plymouth "the Three Towns".

separate p. of Stonehouse 16,120.

Stonington, f. of New London co., Connecticut, U.S.A., on Long Isl. Sound; manuf., p. 9,172. Stonyhurst, Roman Catholic college and estab. nr. Clitheroe, N.E. Lancash., Eng.

Stoay Point, 4. on a rocky promonty, of R. Hudson, Rockland co., New York, U.S.A.; prominent in the Rockland co., New York, U.S.A.; prominent in the Rockland co., New York, U.S.A.; prominent in the Eng. p. acc.

Stony Stratford, inkt. 4. on R. Ouse, nr. Buckingham, Storsoway, 42. on Isle of Lewis, Ross-th. Soci. Inc. 1. on R. Ouse, nr. Buckingham, Storsoway, 42. on Isle of Lewis, Ross-th. Soci. Inc. 1. on R. Stour, R. Suffolk and Essex, Eng. 3666. Ip. 52.16. Stour, R. Suffolk and Essex, Eng., flows 42 m. to sea at Harwich; also R. of Somerset, Dorset, and Hants; trib. (52 m.) of R. Avon; also R. of Kent, flows 40 m. past Canterbury to Pogwell Bny; also R. of Worcestersh, and Staff, trib. (20 m.) of R. Severn. Stour index p. 1. on R. Stour, Worcestersh, Eng.; glass and fire-Drick manut, p. 17, 376.

Stourport, nikt. f. Worcestersh, Eng., at conflu. of R.'s Stour and Severn, p. 4.432.

Stowmarket, 4. on R. Gipping, Suffolk, Eng.; guncotton factory, cont r., p. 4.232.

cotton factory, corn tr., p. 4,230. Stow-on-the-Wold, mkt. t. on the Fosse Way,

Stow-on-tne-Wold, mkt. t. on the Fosse way, Gloucestersh, Eing, p. 1,30x. Gloucestersh, Eing, p. 1,30x. Stradbroke, Isl., E. of Moreton B., Queensland, 33 m. Straits Settlements, Brit. col. on and about Strait of Malacca; distinct from the Federated Malay States Protectorate; consists of Singapore, Penang, Province Wellesley, Dindungs, and Malacca; total area 1,600 strains. A strains of Singapore 18 21.

weiesery, Dindings, and Maracca; votal area 1,000 sq. m., p. 714,000; cap. Sing-upore (g-v.).

Strakonitz, t. nr. Klattau, Hohema; textile industrics (especially manuf, of red Turkish fez), p. 5614

Stralsund, ft. 596. of Pomerania, Pruss., on the Strelasund strait separating Rügen isl. from muniand; has gd. grain tr. and various manufs., p. 32,500; also govt. dist. W. Pomerania; area 1,548 sq. li., p. 220,228.

Strangford Loch, sea arm, co. Down, Ireld., 18 m.

long, 6 m, at entrance.

long, 6 m. at entrance.

Strantaer, bu ph. Loch. Ryan, Wigtownsh., Scotl.; creameries and implt. factories, p. 6.42a.

Strassburg, fort c. Alsace-Lorrame, Germy., on R. Ill; captured from French 1870; fine cathedl., university, garrison of 15000 men, imperal palace, many handsome new public bdgs., extensive tr., exports hops, sausages, famous pies, beer, etc., 182,140.

Stratford, dist. of E. Londou, Eng., in bor. of West Ham, Essex co.; industrl., p. 50,728; also c. on Avou R., Perth co., Ontano, Cam., p. 15,084; also 4. on Housstonic R., Fairfield co., Connecticut, U.S.A., p. 5,082.

p. 5,082. Stratfort-on-Avon, t. in Warwicksh., Eng. ; birthplace of Shakespeare, memorial theatre, library, etc.,

or Stratkespeare, memoras attento, assary, co., p. 8,522.

Strathabyn, £. nr. Adelaide, S. Austrulia, p. 1,012.

Strathabyn, £. nr. Hamilton, Lanarksh., Scoth., p. 3,975.

Strathbungo, S. subn. dvf Clasgow, Scoth., p. 5,240.

Strathfieldsaye, par c. c.'s Berks and Hants. Eng., contains scat of the Duke of Wellington, presented by the ration to the great duke for services in the Peninsular War; also name of a township in Victoria, on Emu creek, to8 in. N.W. Melbourne. Strathmore, gt. valley of Scotl, stretch, from Dum-bartonsh, to sea at Stonehaven, Kincardinesh.

partonsh, to sea at Stonemarcen, Financianeau.
Strathpeffer, weat. b. (minl. springs) in Highland
valley Ross and Cromarty, nr. Dingwall.
Strathspey, valley of the Spey. N. Scoth., po m. long.
Straubing, L. nr. Ratisbon and the Danube, Bavana;

Straubing, 2. nr. Ratisbon and the Danube, Bavarna; industri: p. 1864.

Streatham, 1864.

Streatham, 1864.

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Streatham, 1864.

Streatham, 1864.

Streatham, 1864.

Street, 2. nr. Glastonbury, Somerset, Eng.; p. 4-235.

Strethen, industri. 2. on N. Ohlau, Prusu. Silesia; p. 4-25.

Stretford, industri. 8. St. Lancash, Eng., sub. to Manchester on S.W.; p. 43-496.

Stredford, industri. N. S.E. Lancash, Eng., sub. to Manchester on S.W.; p. 43-496.

Striegau, nufg. 2. nr. Breslau, Prusus Silesia; p. Stromboli, one of Lipari Isl., off N. cst., Sicily; p. 1,200; noted for active volcano, alt. 3-3-8 ft.

Stromboli, one of Lipari Isl., off N. cst., Sicily; p. 1,200; noted for active volcano, alt. 3-3-8 ft.

Stromboli, one of Lipari Isl., off N. cst., Sicily; p. 1,300; noted for active volcano, alt. 3-3-8 ft.

Stromboli, one of Faroe grp. (g.w.).

Stroud, mkt. t. nr. Gloucester, Eng., on R. Frome; umbrella and walking-stick manuf.; p. 8,772. Stry, R. of Galicia, Austria, trib. (170 m.) of R. Dilester; also fort. t. on same nr. Lemberg; tanning

Dinester; also fort. t. on sime nt. Letinoerg; tanning and match-making; p. 56,214.

Studley, par. on R. Arrow, Warwicksh, Eng.; p. 5tuhlweissenburg, t. nr. Pesth, Hungary; manuf.; p. 31,824. Has catholl, former pl. of coronatn. of Kings of Hungary.

[also c. on same; p. 3,264.

Sturgeon Bay, arm of Green Bay, Winconsin, U.S. A.; Sturminster Newton, mkt. t. on R. Stour, N. Dorset,

Eng.; p. 1,874. Stuttgart, c. ur. bank of R. Neckar, cap. of Würtemberg, beautifully situated aund vine-clad hills; royal palaces and library, art nuseum, etc., it. and educatni. centre; piano and furniture making, cotton weaving, publishg., and paper industries, 285,240. [Minck trib. (25 m ) of R Tripet. Styr. R. Galicia, and the Russn provs Volhynia and Styrla, cronwinand of Claeithan duy, Austria-Hungary; area 8,670 sq. m; niths, but well-cultivated, produce, com wine and fruit stock-racing well-recommended.

area 8,670 sq. in.; intris. but well-cultivided, producg, corn, wine, and fruit; stock-rearing, poultry and bee-keeping industries; also various manufs.; p. 1,500,500. Cap. Gratz.

Styrian Alps, that portn. of the mtn. system E. of the Suakin. 50. of Nubau, on Red Sea: Egyptian; occupied by Brit troops during Mahdist revolt in 1884 and later; grt, tr. in cotton, gums, senna, etc.; also port of embarkatn. for Moslem pilgrims to Jedda,

port of embarkath, for hi-sieus pagrims to jedda, en route for Mecca; p. 12,340.

Su-Chow-Fu, t. on Lake of Imperal canal, prov. Kiang-Su, Clina; gt. commercia and industricentre; same as Soochow (q.w.).

Suczawa, t. in Buckowlina, Austria, on the Roumanian frontier; former res. of Moldaviai. princes; fancy

leather industries; p. 11,215. Sudan.—(See Soudan.)

[p. 7,141, ex. Eng. :

leather industrics; p. 44,445.
Sudan.—(See Soudan.)
Sudbury, bor. on R. Stour, Suffolk and Essex, Eng.; Sudetic Mins. range separatg. Bohoma and Moravia from Silesia; highest peak, Altvater, 4,880 ft.
Suda, dist. d. govt. Kursk, Russ.; potteries and tanneries; p. 13,455.
Sueca, 4 on R. Yuear, prov. Valencia, Spain; gd. tr. in truit and agr. produce; p. 14,462.
Suez, 5/4, of Egypt, at hd. of G. of Suez (arm of Red S.) and S. entee. of Suez Canal, which crosses the 1sthnus of S. to the Mediterranean at Port Said (50 ml. long!; the anc. Arsinod. Suez has appropriate quays and harbours, and a p. of 20,546.
Sueda Koh, mor. range Afghantstau, S. of the Kabul vall. and the Hindu Kush, highest summit, 14,200 ft. Suffolk, mor E. martime e.e. Eng., bounded by Essex, Norfolk, Cambridge, and the N. Sea, area 1,475 sq. ml. agr., fisheries, and manuf., p. 394,689; co. L. Ipswich (4.7v.).
Sugar Notch, bor. Penn., U.S.A., t. on Susquehanna R., nr. Wilkes, Barre, Luzerne Co., p. 4,400.

Sugar Notch, bor. renn., U.S.A., t. on Susquenama R., nr. Wilkes Barre, Luzerne co., p. 4,140.
Suihl, 4 nr. Erfurt, Prussn Saxony, industri., p. 12,108.
Suidun, 4. Kulja prov., Chma, walled and armed with steel ordinance, mil. 4. with arsenal and res. of

steel ordnance, nul. 2. with arsenal and res. of governor, gent, p. 90.816.
Sulr, R. Munster prov., Ireld., flows 8g m. to the Barrow, Waterford Harbr. [Bassorah, p. 17.246.
Suk-el-Shuyukh, 2. on R. Emphrates, Turkey, W. of Sukhum-Kale, pt. on E. est. Black S., Kntois prov., Caucasia, Russ., formerly the seat of anc. Doskuria, and of a later Turkish fortress, gd. tr. in marce, p. 8.466. [India, opp. Rohri, gd. local tr., p. 32,584.
Sukkur, 2. on R. Indus, Shikarpur dist., Shid, Bombay, Sulaiman Mins., range boundg. the Punjab and Afghamstan, highest peak, Takht-i-Sulaiman, 11.205 ff.

Afghamstan, highest peak, Takhri-Sulaiman, 17,395 ff.
Sulleimanieh, f. in Mosul vilayet, Asiatic Turkey, nr.
Persian frontier, sometines called the cap. of S.
Kurdistan, active tr., p. 17,450.
Sulfina, f. in Roumania, at mth. of Sulina branch of R.
Danube, consid. grain tr., p. 5,852. [p. 4,368.
Sulphur Springs, f. Texas, U.S.A., in Hopkins co.,
Sultanpur, dist. Fyzabad, Oudh, Brit. India, area
1,710 sQ. m., p. 1,107,450; cap. S., c. on R. Gumti,
80 m. S.E. of Lucknow, formerly a mil. cantonmt.

p. 9.424. Sulu, or Sooloo Isla., arch. betwn. Borneo and the Philippine Isla., grp. long notorious as a haunt of

Malay pirates, total area 950 sq. m., p. 75,000; acquired by the United States, 1898.
Sumatra, 161, of the Malay arch, sep. from Java by Strait of Sunda, under Dutch influence, area 161,612

Strait of Sunda, under Dutch innuence, area tor, or sq. ni., p. 3,000,000; coffee, sugar, rice, pepper, mtnous., with minl, wealth (gold and tin).

Sumbawa, one of the Little Sunda sts. in the E. India arch., E. of Lounlok, area (with neighbouring isla.), 5,240 sq. ni., nitnous. (with volcano Tombora), belongs to Dutch confederated sts. in the "Government of Celebes and its dependencies," p. 150,000.

ment or Ceines and its dependencies, p. 150,000. Sumburgh Head, S. extrem. Shetland. Summerside, cap. Prince Co., Prince Edward Isl., on Bedeque Bay, p. 3,011.
Summerville, A. South Carolina, U.S.A., in Berkeley

Summerville, c. South Caronas, co., nr Charleston, p. 5,420. co., nr Charleston, p. 5,420. Summit, c. Union co., New Jersey, U.S.A., p. 5,786. Sumter, c. S. Carolina, U.S.A., cap. S. co., tr. centre [Ukraine, p. 26, 26, 26].

Sumter, c. S. Carolina, U.S.A., cap. S. co., tr. centre for agr. regn., p. 6,65.

FUkraine, p. 8,70.

Sumy, f. in Kharkov govt., Russ., tr. centre for the Sumart, Loch, see arm. (19) in. long.), N. of Mull, on Arryll cst., W. Scotl.

Sunbury, mkt., f. Middleser, Eng., on R. Thames, p. 4,607; also bor. Penn., U.S.A., on Susquelamua R., rly. wkships., p. 10,240.

Suncook, f. New Hampshire, U.S.A., on R. Merrimac, Sunda Isls., Malay arch. comprise, Java, Sumatra, and the other isls. of the same claim as far as Timor. Sunda Strait, betwin. Java and Sumatra, 13 m. wide, contains the volcanic sil. of Krakatoa (2,v.).

Sundarbans, The, tract of forest and swamp fringing the Gaugetic delta, Brt. India, 165m. long, 87 m. wide, reachy, from the nath. of the R. Hooghh to that of the R. Meghna. The jungle abounds with tigers and other wild beasts. Yields fine timber, claft, the hard sundir wood. hard sundti wood.

hard sundri wood.

Sunday (or Raoul) Isl, one of the Kermadec (o v.)
grp. in Pacific, N. of New Zealand, annexed by Brit,
1886. [into Algos B. N. of Port Elizabeth.
Sunday R., Cape Col. Brit. S. Africa, flows (soo in.)
Sunderland, sp.i. at mouth of R. Wear, co. Durhain,
Eng., §t. shipblidg, and coal export centre, p. of par.
(Includg, Monkwearmouth) and parts of Bishopwearmouth) 151, 162. Fine harbour, piers and docks,
Sunderland, North, fishig. vil. nr. Belford, Northumberland, Eng.
Sundsvall, spl. Vestnorriand co., Sweden, on a wide
bay of the Baltic nr. Hernösand, timber and woodpulp industries, p. 15.064.

bay of the Baite nr. ricernosing, timos and pulp industries, p. 15.084.
Sungari, R. Manchuria, trib. (including the Nomi, over 1,000 in. long) of R. Amur.
Sungel-Ujong, nat. st. Malay Penin., attached (since 1876) to the Brit. protectorate of the Straits Settle-

1876) to the Brit. protectorate of the Straats Settlements, p. 3,1,20.

Sungora, t. on G. of Stam, Lower Stam, nr. Ligor, p. Sunningdale and Sunninghill, vilte. of Berks, Eng., nr. Stames and the R. Thames, residentl.

Sunny Corner, muning t. N.S.W., 124 m. W. Sydney, p. (dist.) 2,425.

[1,400 ft. Statel, pr. of mtrs., in Germy., S. W. of Hanover, alt. Sunnada, mid. see Japan (ength 240 m.) separating Hondo 1st, from Kiu. Sun and Shikoku.

Superior, c. Douglas co., Wisconsin, U.S.A., at head of L. Sunerior, st. tr. m. grait, umber and coal, p.

.. Superior, gt. tr. m grait, tumber and coal, p

Superior, L., largest sheet of fresh water in the world, lying betwn. Brit. N. America and the U.S.A., one of the chn. of great lakes in the St. Lawrence system, area 23,000 sq. m., outlet to L. Huron by the St. Mary's R., receives the waters of the St. Louis, Figeon and Nipigon.

Sura, R. of Rivss., govs. Simbirsk and Veitza, trib. Surat, the Gujarat div., Bombay, India, area 1,662 sq. m., p. 65,600. Cap. Surat c. on R. Tapit, cotton manuf., slik brocade and embay., p. (with nill canton-mt.) 120,000. Many wealthy Parsee merchis. The Surat Agency convists of 3 native sts., Dharampur, Sachin, and Baroda, area 1,053 sq. m., p. (decrease, 151.000.

Surbiton, t. (residt) Surrey, Eng., on R. Thame, in. Paramaribo. The Dutch col. of Surnam, of which Paramaribo is cap., has an area of 46,600 sq. m., and Superior, L., largest sheet of fresh water in the world.

Paramaribo is cap., has an area of 46,060 sq. m., and produces cocoa and sugar; p. 86,000.

Surrey, S. co. of Eng. below the R. Thames, and comprise, in its N. part the London bors, Wandsworth, Battersea, Clapham, Lambeth, Newington, Southwark, and Camberwell, besides the bors of Croydon, Reigate, Kingston-on-Thames, and Guildford (the co. t.), area 758 sq. m., p. (of the adm. co. and co. boroughs in 1911) 675,985; of regn. div., 919,977.

Suruga, cst. t. Japan, 90 m. S.W. Tokio; large tr. and linpl. industries; p. 35.000 s. s. prov. S. Morocco, formerly an indpt. country; very minous; also R. of the prov. howing (20 m.) W. to the Atlantic nr. Agadir (once the Fortuguese Santa Cruz).

Susa, sp. Tunis on G. of Hamama; p. 8,240; also t, in Piedmont, Italy, on the Dora Ripard, nr. the French frontier; chf. t. of the Cottian Alps; cathedl.; p. (commune) 4.418; also ruined c. on R. Kerkha, Persia; the Shushan of Scripture.

Persia; the Shushan of Scripture.
Suspension Bridge 'or Niagara City), port of entry,
New York, U.S.A., former t. 2 m. below the fall, and
now included in township Niagara Falls.
Susquehanna R., New York, Pennsylvania and Maryland, U.S.A., flows 422 m. past Harrisburg te
Chesapeake B. at Havre de Gras; also bor., Penn.,
on S. R., p. 4,870.
Sussex, maritime co. S.E. Eng., adjng. Surrey, Kent,
and Hants, and washed by Eng. Chan; trav. E. to
W. by the S. Downs; area, 1,458 sq. m., p. (1901 census, of the anc. co.) 65,476; aggr., hops, fruit, with
coast industries, and manuf.; co. t. Chichester (g.w.).
Sutera, t. m. Caltonie-tta, Sicilly, p. 4,870.

coast industries, and manus; co. i. concesses 19.0., Sutera, i. nr. Caltoniestra, Sicily, p. 4,810. Sutherland, N. co. Scotland, N.W. Moray Firth, washed by Atlantic and N. Sea; area 2,102 sq. m., grazing and forest land, most sparsely pop. in Scotl.; p. 20, 180; inthous, with many lochs; co t. Dornoch, Sutlej, R. of the Punjab, India, rises in the Himalayas nr. Manasarowar L., Tibet, at an alt. of 15,200 it.

nr. Manasarowar L., Tibet, at an alt. of 15,200 it. and flows S.W. (abt. 1,000 I.) to the Indus. Sutna, 2. (with Brit. mil cautonint.) in nat. at. Rewa, India, 110 m from Allahabad, p. 5,515 Sutton, Nar. and vol. in. Croydon, Surrey, Eng.; industril. and residenti.; p. 21,275. [p. 2,155. Sutton Bridge, 4 on R. Nen, Lincs, Eng., nr. Wisbech, Sutton-Coldfield, mkt. and industri / Warwicksh., Eng. nr. Birnuncham, p. 20,32 [Eng., p. 21,707. Sutton-in-Ashfield, mitg. f. nr. Man-field, Notts, Suvalid, grovit. Russ. Poland, on Prussul border; area 4,846 sq. m., agr. and industri ; p. 750.000, mainly peasantry; Cap. S., t. 75 m. N W Grodno, p. 28,500; trade in timber, cloth in-hulf. [250 m to G of Mexico. Suwannee R., Florida and Georgia, U.S.A., fious. Suzdal, L in govt. Vladimir, Russ., on Kamenka R., seat of an old principality united with Moscow in ath century. p. 7,124.

14th century, p. 7,124. [10,725]
Suzzara, f. nr Mantua, Lombardy, Italy, p. (com.)
Svart Elf, R. Sweden, flows 102 m. to L. Skagera.

Svea, middle terr. Sweden, region of lakes and isls.; area 32,580 sq. m., p. over 1,500,000. Embraces co.'s Stockholm, Upsalz, Sodermanland, Vermland, Ore-Kopparberg, and Oestmannland. (See sep.

entries.)

Sveaborg, fort. t. Finland, in Helsingfors harbr.

Sveadorg, spt. S. cxt. Funen, Denmark; manuf., earthenware and tobacco, exports, butter, etc., p. 13.05

Svenigorodka, t. nr. Borguslav, Kieff govt., Russ.; Sviatot, C. Iddd. on Arctic cst., Russ, nr. entce. White S. Cylingford, Russ. (12. Onega and L. Ladaga. Svir., R. Olonetz govt., Russ. (125 in.) flowing between Swablas, forner duchy of Germy, on the Rhine, now absorbed by Baden, Bavaria, and Würtemberg, Swabhan Alps, mins. of Würtemberg, includge, the Swabian Jura, range betwn. valleys of Neckar and Danube. Danube.

Swabla and Neuburg, governmentl. dist. Bavaria, N. of the Tyrol and Lake Constance, area 5,788 sq. nr. 165,500; cap. Augsburg. [on-Trent, p. 18,656. Swadlincote, industri. L. Derbysh, Fig., nr. Burton-Swafham, inkt. L. Norfolk, Eug., nr. King's Lyan, p.

3 234. Swale, R. N. R. Yorks, Eng., trib. (60 m.) of R. Ure; also name of chan. betwn. Isle of Sheppey and Kentish mainld., Eng., 16 m. long.

Swampscott, cst. vil. nr. Boston, Mass., U.S.A., p.

4,844. Swan, R., W. Australia, flows to Indn. Oc. nr. Perth. Swanage, mkt. f. and wat. pl. on Isle of Purbeck,

Dorset, Eng., stone quarries, p. 4.689.
Swansea, 767. on Swansea B., Glantorgansh., Wales; pruc. st. of Brit. copper tr. and tru-plate manuf.; also many other industries connected with coal, iron,

also many other industries connected with coal, iron, etc.; large export; p., S. bur, e.5,coo; S. co. bor., 114,673; S. dist. of parly, boros. (which includes Neath, Aberavon, Loughor, Kenfig. and part of Swanton, industri. f. mr. L. Chamblam, Vermont, Swat, regrior of Centl. Asia, W. of the Upper Indus, N.E. of Peshawir, on the N.W. frontier of India, peopled by the Yuzufzai race, hardy and daring mountaineers of Afghan descent.

mountameers of Afghan descent.

Swatow, treaty port, Kwantung prov., China, on R. Han, great mland and export tr.; exports, sugar

and tea; p. 30,000.

Swaziland, ntns. co. Brit. S. Africa, on S.E. of Transvad Colony, between Drakensberg and Lobombo ranges; area about 3,000 sq. m., p. (est.) 80,000. Passed under Brit, rule in 1900.

Sweden, country of N. Europe forming F. (and larger) part Scandinavian Penns; area 172.875 sq. m., p. 5,250,000. Mtns. W., but otherwise flat and cut up by R.'s and many L.'s, while one-fourth of the land is forest. Great timber export, nuneral and inftg. industries, active agr. and darrying. Cap. Stockholm.

industries, active agr. and durrying. Cap. Stockholm. Swedesborough, t. on the Raccoon R., Salem co., N. Jersey, U.S.A., p. 3,944. Sweetwater R., Wyoming, U.S.A., flows 175 m. E. to the N. Fork of the Platte R. Swellendam, div. Cape Colony, Brit. S. Africa, ca coast: area 2,954 sq. m., p. 14,000. Cap. S., t. on Breede R. (one of the oldest Dutch settlements in S.A.), 140 m. E. of Cape Town, p. 3,500. Swilly, Lough, arm of the Atlantic (25 m. long) coast of Donegal, Ireland.

Swindon, mkt. t. Wilts, Eng., nr. Mariborough; gt.

rty. wks. p. 50,771.
Swineford, t. on R. Moye, co Mayo, Ircland, p. 1,650
Swinemunde, fort. 5pt. Pomerania, Pruss., on Isl, of
Usedom, on the Baltic; the outport of Stettin (q.w.);

Usedom, on the Baltic; the outport of strettin (q.w.); shipping industries and large tr.; p. 11,246.

Swinesbead, I. m. Boston, Lincolush, Eng., p. 36,56.

Swinton, industri. I. m. Manchester, Lancs, Eng., p. 30,759; also colliery I. nr. Shefileld, W.R. Yorks, Eng. p. 31,658.

Switzerland, Repub. Centl. Europe, area 15,000 sq. m., mainly inthous, forest-clad, with glacters and showy summits. Many Ls. largest Geneva (q.w.), 1,3750,000. Industries, pastoral and mfg. (embroidery, clock and watch making, silk spinning), Lap. Bern (q.w.). Cap. Bern (q.v.). 13,214

Syambazar, f. m. Hooghil dist., Bengal, India, p. Sycamore, c. Illmos, U.S.A., m. Dokalb co., p. 4,162. Sydenham, S.E. subn. dist. London, Eng., in Lewisham bor. (residth, contains Crystal Palace), p. 8,146; also bor. New Zealand, adjouring Christchurch,

p. 11,846.

p. 11,340.
Sydney, c. cap. N.S.W., princip., spt. Australia, on shore of Port Jackson B.; many beautiful bidgs, and parks, stretchy. S. to Botany B. Has university and large commerch and active industries; p. (with subs.) over 725,400. [Scotta, p. 10,605; iion and steel works. Sydney, or S. Sydney, 54t. Cape Broton 15.1, Nova Sydney Mines, 34t. on N. shore of S. Harbour, Nova Sydney Mines, 34t. on N. shore of S. Harbour, Nova

Scotia, p. 4.276.

Sylhet, aist. Surma Valley div., Assam, Andia; area 5.414 sq. m.; tea-gardens in the southern hills; p.

(increase,) 2,250,000; cap. S., t. on R. Surma; mat. manuf., ivory and shell-carving; p. 14,000.

Symi, sm. Turkish 6t. ar. Rhodes, off W. cst. Asia

Symi, sm. Turksh 65.6 nr. Rhodes, oil w. cst. Asia Minor, the nnc. Syme.

Syra, 25.6 of the Cyclades, in the Ægean S. (Greek), 11 m. long; rocky; p. 17,550. Cap. Sa (or Hermoupolis), port of call for vessels plying betwa. the Black S. and Constantinople.

Syracuse, prov. S.E. Sicily; area 1,442 sq. m.; p. 400,000; cap. S., c. on isl. of Ortygin, off E. cst.; cathedl; exports olive oil, oranges, lomons, locust beans, almouds, wine, etc.; p. 34,116; also c. on

Onondaga Lake, O. co., New York, U.S.A.; p.

January 1 (1987) of Sir Daria, gov. Russ. Turkestan; in valley of S. D. or Janartes R. (q.w.); area 165,996 sq. m., p. 1,200,000. Cap. Tashkend. Syria, wilayet Asiatic Turkey, stretching along E. shore of the Mediterranean and E. to the R. Euphrates. The prov., officially, excludes Palestine and I shone of the good with in p. 200,000. Cap. and Lebanon; area 146,000 sq. m.; p. 2,000,000. Cap.

and Lebanon; area 146,000 sq. in.; p. 2,000,000. Cap. Datmascus; spt. Beyrout.

Syston, 32r. in. Leicester, Eng., p. 2,854. [p. 32,116.

Systan, 4. in. Simbirsk govt., Russ.; leather manuf. Szazbadka, free town of Hungary, 106 m. from Budapesth; p. 92,000. [industri.; p. 24,754.

Szarvas, 4. on the Köros, Hungary, 106 m. from Budapesth; p. 92,000. [industri.; p. 24,754.

Szartmar-Nemeth, 4. (mftg.) on R. Szanuos, nr. Debeczun, Hungary; p. 34,862.

Szawli, 4. m. Kovno govt., Russ.; distilleries and tobacco factories; p. 22,118.

Szechuen.—(See Sechuen.)

Szecgedin, 4. on R. Thelss, Hungary, 100 m. S.E. of Budapesth; great commerci. and industri. centre, with many fine bidgs, and import. educational institus.; p. 118,329.

Szekesfehervar, old 4. co. Fejér, Hungary; horsebreeding and trade; p. 36,525.

breeding and trade; p. 36.525. Szekz rd, c. nr. R. Danube, co. Polna, Hungary; silk,

Szekz trd, t. nr. R. Danube, co. Polna, Hungary; silk, frunt, and fumous red wine; p. 1,4000.
Szerencs, inkt. t. Zemplén co., Hungary, nr. the Tokaj hils; large sugar refinery; p. 5,504.
Sziget, cap. co., Mannaros, Hungary, on R. 12a; in sattamang dist.; p. 21,376.
Szolnok, f. on R. Theiss, nr. Pesth, Hungary; manut.; Szombathely, t. m Vasvar co., Hungary, nr. Pressburg; rathway and industri. centre; p. 30,047.
Sztanicsics, mfig. t. nr. Zombor, Hungary, p. 8,492.

Taal, & in Luzon, Philippine Isls.; beautifully situate in fertile agr. dist.; devastated by fire 1800; p. 33,500. Taasinge, or Thorsenge, 12. Denmark, S. of Finen,

Tassinge, or Thorsenge, 114. Denmark, S. of Finen, on Ilong, D. 4085.

Tabartyeh, I. on. L. Tiberias, Palestine, the antabasco, maritime 31. Mexico, on G. of M., adjoining Gnatemala, area 10.075 Sq. m.; cacao, sugar-cane, tobacco, rubber, pepper, maze, and hard-woods; p. 100.000. Cap. San Juan Bantista.

Table Bay, inlet of Atlantic, ext. of Cape Col., Brit. S. Africa; on it is Cape Town.

Table Mountain, Cape Col., Brit. S. Africa, nr. Cape

Town, alt. 3,500 ft.

Tabor, 4. on Hill betwn. Jordanteich L. and R. Luschnitz, Bohemia, Austria; on site of and Hussite fort of Kotnow; nimeral baths, cigar and cloth factories,

corn tr.; p. 11,724.

Tabor, Mt. (Jebel-el-tur), Palestine, S. E. of Nazareth; reputed scene of Christ's Transfiguration; alt. about

T.800 ft.

Tabriz, c.up. prov. Azerbaijan, Persia; gt. commerci. centre, formerly clif, emporuum for the trade of Persia in the west, much of which is now diverted by the railway through the Caucasus; citadel and "Blue Mosque"; noted for orchards and gardens; p. 100,000. [San Cristoval.

Tachira, st. on W. frontier Venezuela, p. 78,000; cap. Tacna, A in Chili, dep. Tacna and Arica; industri; p. 26,500.

Tacoma, ref. on Puget Sound, Pierce co., Washington, U.S.A.; called the "City of Destiny," large

ton, U.S.A.; called the "City of Destiny," large timber and grain tr.; p. 84,000.

Taconic, or Taghkanic Miss, range in Vermont and Mass., U.S.A. highest peaks. 3,872 ft. [16,500.

Tacunga, I. in the Annes, Ecuador, m. Quito, p. Tadcaster, mkt. I. on R. Wharfe, W.R. Yorks., p. 6,831.

[Aden, N. Africa, p. 5,200.

Tadjura, or Tayura, French I. and port on Gulf of Tadmor.—(See Palmyra.)

Tad, or Taye, R. Pembroke and Carmarthen, Wales Tafalla, c. on R. Cidacos, prov. Navare, Spain; old towered walls and citadel, wine, olives, wheat dist.; p. 5,844.

Taff, R., Glamorgan and Brecon, Wales, flows (40 m.)

Tafilit, prov. Morocco, an oasis of the Sahara, E. of Tainit, prov. Morocco, an ossis of the Sahara, E. of Atlas, chf. t. Abuan.

Taganrog, 59t. on Sea of Azov, Yeksterinoslav govt., Tagavost, 59t. on Sea of Azov, Yeksterinoslav govt., Tagbiaran, t. on Bohol isl., m Philippine grp., p. 9,845. Taguayabon, t. prov. Santa Ciara, Chba, p. 15,463. Tagua, R. of Spain and Portugal, flows 540 m. to Atlantic at Lisbon.

Tainit, princ. 1st. of Society grp. (See Otabelte and Taimyr Penins., N. cst. Siberia, terninates with Cape Chelvuskin.

Tain, spd. ion Dornoch Firth, Ross and Cromarty, Scotl.; one of the Wick Parly, burghs; p. 1,599.

Tai-wan, treaty port, cap. Formosa, on S.W. cst.;

large tr.; p. 70,000.

Tai-yuan, c. on Fuen-ho R., China; cap. Shan-Si prov.; industri, and commerci; p. 20,000.

Taikaika, c. in New Zealand, 68 m. from Nelson, p. 1,860.

Taikaikai, c. in prov. Sanuki, Japan; gt. commerce;

Takata, J. in Prov. Salust, Japan; R. Commune, P. 42,800.
Takata, Open Jerr. Hormosa, S.W. of isl. p. 12,140.
Takata, J. in Echigo prov., Japan, p. 28,226.
Takatapul, fort. A fixtanistan, E. of Baiki, p. 7,840.
Takt. J. Sulsiman, highert J.A. Sulaiman Mints (6,12).
Takt., Jores at inth. of R. Peinh, Chan, guarding entrance to Tientain and Pekin; captured by Allies

Talavera, c. on R. Tagns, nr. Toledo, Spain; fine streets and squares; fertile wine-growg, dist.; Wellington's virt., 1809; p. 10,540. [bourne, p. 3,146. Talbot, t. on Back Creek, Victoria, 121 in. N.W. Mel-Talca, t. in prov. T., Chile; mpt. tr. centre; p.

43,625.
Talienwan, open B. on E. side of Liaotung Pen., Manchuria; leased to Russ. (with Port Arthur) prior to the war with Japan, 1904, in the naval actus. of which 1512ff. Env. D. 5,216.

the war with Japan, 1904, in the naval actns. of which it figured prominently. [Staffs, Eng., p. 5,246. Talke, or Talke-o'the-Hill, industri. e. nr. Newcastle, Talladega, e. Alabama, U.S.A., in gold-mining districtly college for coloured students; p. 4,260.

Tallahassee, e. Flonda, U.S.A., cap. Leon co., p. 3,268.

Tallahassee, e. Mississippi, U.S.A., flows (240 m.) S. to R. Yalabusha. [(250 m.) R. Coosa.

Tallapoese, R. Georgia and Alabama, U.S.A. trib. Tamanieb, wl. nr. Suakim, Soudan; battle between Mahdusta and Britsh, 1894. | and coal tr.; p.7,500. Tamaqua, 80r. Schuykill co., Penn., U.S.A.; mming Tamar, R. Devon and Cornwall, Eng., flows 45 m. to

Plymouth. Tamatave, chf. spt. Madagascar, on E. est., p. 8,246. Tamaulipas, Mexican st. on G. of Mexico, S. of Texas;

area 55.56 sq. m.; gt. minl. and agr. wealth; p. 37.56 sq. m.; gt. minl. and agr. wealth; p. 37.500; cap. Cudd Victoria. Tambov, geor. Centri Russ. S.E. of Tula and Ryazan, area 25.710 sq. m; agr. and stock-rasg.; p. 3,000,000; cap. T.; t. on Tsna R.; gt. gram tr, and cattle mart;

p 50,000. Tamise, t. on R. Scheldt, Belgium, nr Ghent; lace-

Tamise, Z. on R. Scheldt, Belgium, ar Ghent; lace-making, cotton and woollen manuf.; p. 12,510.

Tammerfors, Z. in Finland, on rapids betwn. Lakes Pyha-jarn and Nass-jarvi; many textile factories and paper mills; p. 24,720.

Tampa Bay, W. 63Z. Florida, U.S.A. (40 m. long); also t. on same, popular winter rest, with cigar factories; p. 37,72b.

Tampico, R. Meatoc (200 m.) flows through Vera Cruz Tamsul, fort. treaty Pl. N.W. isl, of Formosa; p. 95,000. Bombuded by the French m 1894.

Tamworth, bor. Warwick and Staffs, Eng., on R. Tame; and. castle; p. 7,738; also t. on Peel R. New S.W.; p. 6,275.

Tana Bif. R. of Norway (180 m.), most N.R. of Furoje, flows to Tana Fiord, an inlet of Arctic Oc., 40 m. long.

40 m. long.

Tanaro, R. N. Italy, trib (125 m.) of R. Po

Tanaro, R. On I uzonisi., Philippine grp.: p. 14,244;
also smir. t. on J. eyte Isl., same grp.: roors; books

industri.

Tanda, i. nr. Gogra R., Faizabad div., p. 7,056.

Tanda, i. nr. Gogra R., Faizabad div., p. 7,056.

Tanderagee, nikt. i. nr. Newry, co. Armagh, Ireind.;
p. 1,614.

Tanega-shima, ii. S. of Kin-sin, Japan (59) m. long,
Tanganyika, gt. take. E. Centri. Afr., 400 m. long,
grtest. width 45 m.; area 4bt. 12,700 sq. m.; 2,800 ft.

above sea; discovd. by Burton and Speke in 1868, and since explored by Livingstone, Stanley, and others. Tangermunde, t. on the Elbe, Prussa. Saxony, nr. Madgeburg; castle former res. Margraves of Brandenburg; sugar manuf., brewg., corn tr.; p. 14,000. Tangler, spt. Morocco, on Strait of Gibraltar; ceded

to Eng. in 1662 when Catherine of Braganza married Charles II., but abandoned to the Moors 22 yrs. later; 5m. tr.; p. 45,000 (one-balf Jews and

Tanjore, dist. in S. Karnatic, Madres, India; a Mahratta st. wh. came under Brit, rule at beginning roth cent.; area 3,700 sq. m.; grows rice; p. 2,400,000. Cap. T., c. on K. Cnuvery, unimport. Brahman centre, with gt. Dravidian pagoda and Bull shrine;

centre, with gt. Drawidian pagoda and Bull shrine;
p. 58,500.

Tantah, t. on Nile delta, Lower Egypt, nr. Cairo;
noted for fairs and Moslem religious festivals,
attended sometimes by 200,000 pilgrius and traders;
res. p. 35,000. Has mosque and khedivial palace.
Tantalam, srl. in Gulf of Siam, on E. cst. Malay
Penins; 40 m. long.
Tanunda, t. in S. Australia, in wine dit.; p. 2,160.
Tappan, B. an expansin. of Hudson R., N. of New
York, 12 m. long.

York, 12 m. long.

Tapti, R. westn. India; flows 450 m. to Gulf of Cambuy at Surat from Betul dist, Centl. Provs.

Taquari, R. Brazil, Matto-Grosso prov., trib. (400 m.) of R. Paraguay.

Tara, R. Siberia, trib, (200 m.) of R. Irtish; also t. a. Toholsk govt., Russia, on R. Irtish; p. 8,016. Taradale, f. Victoria, nr. Melbourne, p. (dist.) 8,949. Tara Hill, nr. Navan, co. Meath, Ireld., alt. 507 ft.,

famous for miss meetings from anc. times.

Taral, dist. Kumaun div. N.W. Provs., India fanocombined with Naini Tal), area 965 sq. m., mamly marshy jungle, p. 210,500, clif. t. Kaspur.

Taranaki, prov. New Zealand, in N. Isl., area 3,183 sq. m., p. 17,024, cap. New Plymouth.

Taranacon, d. Cuenca prov., Spain, in wine and wheat growing plain watered by R. Rianzares; ducal nalice. p. 6,450.

growing plant watered by R. Raintzres; ducian palace, p. 5450.

Taranto, L. in prov. Terra d'Otranto, Italy, on G. or T., an inlet of the Ionian S.; maritime arsenal, with gt. commerci. and industri. interests, strong castle, Ianious for its oyster fisheries, p. 58,246.

Tarapack, prov. N. Chile (formerly a part of Peru), area 19,300 sq. m., rich in nitrates, p. 101,460, cap. Journey.

Iquique.

Tarascon, t. in Bouches-du-Rhône prov., France, connected by bridges with Beaucaire, on opp. bank of R. Rinône; old castle, famous festival, p.

Tarascha, f. in govt. Kiev. Russ., flour mills, p. 12,386.
Tarascha, f. in vine-clad mtnous. dist. Saragossa prov., Spain, on R. Quesles, Gothic cathedrl. ch., p. 8,500.

8,500.

Tarbert, spt. vil. on Loch T. (Loch Fyne), cst. of Argyll., Scot., p. 1,846; also name of sea locks (E. and W.) on the Knetvre Pennis. and (also E. and W.) on coast of Harris Isl., in the Outer Hebrides.

Tarbes, t. on R. Adour, France, cap. of Hautes-Pyrénées prov., cathedrl., paper and fiax factories, p. 23,810. Industri

zo.010.

Tarentum, bor. on Allegheny R., Penn., U.S.A.:
Targul Ocna, L. on Trotus K. nr. Jassy, Moldavia,
Roumanus, salt mines, worked by convicts, p. (with
penal establ ) 8,500.

Tarffa. t. on Ghraine.

penal establ § 8,500.

Tarífa, 4. on Gibraltar st., prov. Cadiz, Spain, fish tr..

Tarija, 4. nr. Cintra, Bolivia, gd. tr., p. 28,416,

Tarkhi, 4. Darghestan prov., Russia, nr. the Caspian

Tarn, R. France; trib. (235 m.) of R. Garoune; bas

famous rocky gorge (33 m.) long) in its upper course; also name of a prov. of N. France, watered by Tarn

and its tributaries, area 2,323 sd. m.; what and

wine, p. (dechning) 385,000, cap. Albi, glass maky

centre.

Tarn-et-Garonne, dep. of W. France, area 1,440 sq. m., corn, wine, and manuts., p. (declining) 194,000, cap.

Tarnopol, A. nr. Lemberg, Austrian Galicia; milling, honey and wax trade; p. 31,468.

Tarnow, t. on R. Biala, Galicia, Austria; mftg. centre

Tarnow, t. on R. Biala, Galicia, Austria; mftg. centre (with garrison) in ngr. dist.; p. 22,200.

Tarom, dist. Persla, N.W. of Kazvin, on borders of Gilàn; cotton, clive groves, fruit, extensive alum Tarporley, mkt. t. Chesin, Eng., p. 2,604. [mines. Tarragona, coast prov. Span, on the Mediterranean, area 2,45; sq. m.; theyards and agr.; p. 340,000. Cap. T., forftd. spt. at inth. of Franconi R.; manuf., alcohol, liqueurs, chocolate, etc.; p. 35,000. The Roman Tarraco; sacked by Goths and Saracens; captured by British, 1705, and by the French in 1811. Tarrassa, £ in Barcelona prov., Spain, in fruit and winegrowing dist.; royal college, thriving industries; p. 16,120.

Tarrawingee, t. on Ovens R., Victoria, p. (dist.) 2,114. Tarrytown, 201. Westchester co., New York, U.S.A., on Pappan Sea (Hudson R.); burial place of Washington Irving; p. 5,010.

Tarsus, anc. c. of Asia Minor, nr. Adana, surrounded

by orange and citron groves; ruined Roman temple;

p, 25,000. Birthplace of the Apostie Paul.

Tartary, or Tatary, region of Central Asia, now divided into Chinese or (E.) Turkestin and W. divided into Chinese of (E.) Iurkestan and W. Turkestan, or Turkestan proper. In a more extended sense Tartary comprises Manchuria, Mongolia, Soungaria, the whole of Turkestan, and Russn. Central Asia, with parts of Europe E. of the Dneiper and Don, at different times dominated by the warlike Tartar tribes of the Middle Ages and their descend-

ants of mixed race.

Tartary, Gulf of, arm of the Sea of Japan, separating Saghalien from the Siberian mainland.

Tasgaon, in Satara div., Bombay, India, p. 11,240.

Taskent, cap. of the Russii, genl-governorship of Central Asia, on R. Syr Darya; has extensive silk manuf. and great comparation of Central Asia.

Tankent, 229. of the Russin, geni-governorship of Central Asia, on R. Syr Darya; las extensive silk manuf, and grat commerce; p. 260,000 (of the Russin quarter, with military, 27,516).

Tasmania (nomerly Van Diemen's Land), Brit. 13f.
S. of Victoria, and a State of the Commonwealth Naustralia; separated by Bass Strait; area 26,85 sq. m.; agr. and mining; exports corn, wool, gold, thi, etc.; p. 10,898; cap. Holsart.

Tata, & Hungary, 57 in. W. of Budapest, nr. a romantic lake on shore of which stands the old castle of the Counts Esterhazy, with a beautiful park; p. 7,350.

Tatar Bazardilk, on the Upper Maritza, E. Roumelia, Bulgaria; large trade in rice and silk coconse; p. 7,450.

Tat-Sin-Lu, fortfd. f. prov. Se-Chuen, China; large Tatrañ red, 17th in the Tatra Mins, (highest Carpathian group), Hungary, amidst wild scenery; pop. summer resort; res. p. 2,416.

group), Hungary, amidst wild scenery; pop. summer resort; res. p. 24,16.

Tauber, R. Wurtemberg, trib. (74 m.) of R. Main; the Taubergrund valley is famous for its whites. Taung-agu, dist. Tenasserim div., Lower Burma, p. 130,000; cap. T., t. on Sittaung R., p. 17,536.

Taunton, 4. on R. Tone, Somerset, Eng., cap. of co.; old castle, p. 22,563; also c. Bristol co., Mass., U.S.A.; cotton manuf., iron foundries, p. 34,664.

Taunus, min., range in Hesse-Nassau and Hesse-Darmstadt, Germy., betwn. the R. Lahn and the R. 's Rhine and Main; highest pk. Grosser Feldberg, 2,850 ft.; well wooded and picturesque, with rich vineyd, dists, on the lower slopes of the Rheingau, and many minl. springs (at Wiesbaden, Homburg, Ems, &c.). Ems. &c.).

Hms, &C., 1.

Taupo, L. (22 m. by 13 m.) in N. isl., New Zealand.

Tauranga, t. on Bay of Plenty, co. Auckland, New
Zealand; in into L.'s dist., p. 3,035 (includg. many
Maoris).

Taurida, or Krim, gowf. S. Russ. (includg. the Crimean
Taurus.—(See Tabris.)

Taus, 4. on borders of the Bohemian Forest, chf. t. of
a govt. dist., Bohemia; ribbons and hosiery manuf.,
p. 7. eo. [Zao.coc. cab. T. t. pr. Abo. p. 4.or8.

a gort dist, Bohemia; ribbons and nossery manus, p. 7,500. [240,000; cap. Tr., t. nr. Abo, p. 4,078. Tavasatehusa, gové. Finland; area 8,333 sq. m., p. Tavistock, mkt. £. in valley of R. Tavy, nr. Plymouth; tr. in arsenic extracted from copper ove, p. 4,302. Tavoy, dist. in Tenasserim div., Lower Burma, betwn. Siam and the Bay of Bengal; rice, p. 111,264; cap. T., t. on T. R., p. 16,240.

T., t. on T. R., p. 16,240. 112,263.

Tayrov, & in Voronezh govt., Russ., on R. Don, p. Tayy, R. of Devon, Eng., trib. (20 m.) of R. Tamar.

Taw, R. Devon, Eng., flows (50 m.) from Dartmoor to Bideford B.

Tay, R. Scoti., flows 120 m. from Loch Tay (14½ m. long) in Pertish., to the Firth of T., which extends along the ext. of Perthsh. and Fife past Dundee; the Tay Bridge crosses the Firth above Dundee, and is over

z m. long.

Tayabaa, f. in Luzon, Philippine Isla,, on alope of extinct volcano Banajao; convent, in rice and cocoa-

extinct volcano Banájio; convent, in rice and cocoanut growg, dist. p. 15,000.

Taylor, c. Williamson co., Texas, U.S.A., in cotton company, p. 4,500.

Taylor, f. Williamson co., Texas, U.S.A., in cotton for company, p. 4,500.

Taylorville, f. on South Fork of Sagamon R., Illinois, Tayport, f. at mith of Firth of T., Fifesh., Scotl., opp. Broughty Ferry, p. 3,23.

Tayng, f. in Pangazanin prov., Luzon, Philippine Isls.; Taz, R. Siberia (300 m.), flows to Bay of Tazovsk in Gulf of Obl.

Tchad, Lake.—(See Chad).

Tchad, Lake.—(See Chad).

Tchadyr-Dagh, mtn. in the Crimea, nr. Simferopol, alt. 5,131 ft.

Tchangre-Dagg, mss. in the Crimea, nr. Suniercopol, alt. 5,13 th. on R. Warthe, govt. Piotrkov, Russ., Tchernigov.—(See Chernigov). Tchiatopol, L on R. Kama, gov. Kazan, Russ., p. 19,864.

[and carpet factories, p. 11,810.
Tchorlau, L in Rodosto vi ayet, Europa. Turkey, cloth Tchugueff, L on the Northn. Donets, Kharkoff govt., will carries p. 18,425.

Tchuguefi, t. on the Northin. Donets, Kharkoff govt., ml. centre, p. 13477. [(com.) 14,815. Teano, t. nr. Capua, prov. Caserta, Italy, cathdl., p. Teatree Gully (or Steventon), vol. nr. Adelaide, S. Australia, p. 1,816. [11,214. Tebbes, t. prov. Kuhistan, Persia · gd. local tr., p. Tecuci, t. on Berlad R., Roumanna; fierce battle 1476; p. 15,110. Tecumsch, t. on Raisin R., Lenawee co., Michigan, Teddington, t. on R. Thames, Middlesex, Eng.; subn. to London; p. (resudtl.) 17,840. [p. 14,500. Tedal, t. nr. Terodant, prov. Sus, Morrecco; gd. tr.; Tees, R. of N. Eng., flows (70 m.) E. to N. Sea, betwn. Yorks and Durham.

Teea, K. of N. Fing., nows (70 m.) E. to N. Sea, Delwin-Yorks and Durham.
Teffae, A. Brazil, trib. (500 m.) of R. Amazon,
Teffae, to M. Slope of Atlas Mins., Morocco, p. 17,213.
Tegucigalpa, A. on Choluteca R., Honduras; cap. of
the Republic; alt., 2,000 ft. above sea; united by
bridge to Concepcion on opp. bank of R.; minversity;

bridge to Concepcion on opp, bank of R.; university; p. 34.24.
Tehama, plain E. of Red S., W. Arabia, 550 m. long, Teheran (or Tehran), fertile prov. Persa; cap. Teheran c. (which is also cap. of the Empire); became the res. of the Sha has cap. of the Empire); became the res. of the Sha has cap. of the Empire); became the res. of the Caspian, at alt. 3.447 ft.; area, within the bastions 7½ sq. m.; p. (include; the mil. garrison of 6,000, and the sub. of Shahi-Abdul-Azim) 200.000; silk, tapestry, and cotton factories; has twelve gates, closed at night.
Tehri, ant. st. Bundelkhand 'Agency, Centl. India; area 2,000 sq. m.; p. 500,500; cap. T., t., p. 19,015.
Tehnacan, A. in Pheblo st., Mexico, p. 10,426.
Tehuantepec, Isthmus of, separates the G. of Mexico from the Pacinc at narrowest pt. (130 m.) of Mexico; also t. on the T. R., nr. the Pacific st. of the isthmus; once an Indian cap.; p. 14,642.
Teign, R. Devon, Fig., flows [50 m.) to sea at Teignmouth from Dartmoor. [Eng.; yacht bldg.; p. 9,221. Teign, R., Devon, Fig., flows [50 m.) to sea at Teignmouth from Dartmoor. [Eng.; yacht bldg.; p. 9,221. Teign, m. M. R. Perthsh, Scotl., joins R. Forth, nr. Stirling.
Tekutahin, t. Moldavia, Roumania; gd. local tr.: n. Teker.

Tekutahin, t. Moldavia, Roumania; gd. local tr.; p.
Telav, old t. in Tufiis govt., Transcaucasia, Russ.;
former cap. Kahetia; runed forts, anc. monasteries, and famous Alaverd ch., resort of many pilgrims, in

and famous Alaverd ch., resort of many pilgrims, in neighbourhood; p. 72, 140.

Telde, t. in Gran Canaria, Canary Isls.; gd. tr.; p.
Tel-el-Kebir, vrl. Lower Figypt, 80 m. from Ismailia; here Wolseley defeated Arabi Pasha in 1882.

Tell, c. indiana, U.S.A., on Ohio R., Perry co., p.
5,240. The cultivated land of "Ageria lying along the Mediterranean coast is called "The Tell."

Tellicherry, t. and 29t. Malabar dist., Madras, Brit. India, betwn. French Settlement of Mahe and Can-

nanore; old fort; exports coffee, spices, sandalwood, and cocoa-nuts; p. 28,500.

Temascaltepec, s. in Mexico, 68 m. S.W. of the c. of Mexico; gd. tr.; p. 11,480.

Teme, R. on border of Wales and Worcestersh., Eng.,

trib. (90 m.) of R. Severn. Temerin, mng. 4 nr. Baca, Hungary, p. 8,338. Temes, R. Hungary, flowg. (180 m.) to R. Danube, nr.

Beigrade. Temesvar, f. in Hungary, the most impt. commerci. and industri. centre of S. Hungary; fortress, castle, Roman Cath. cathedi. p. 58.25.
Temiscamingue, Lake, Can., extensn. of the Upper Ottawa R., betwn. provs. Quebec and Ontario, 26 m. [Madawaska R.

long. [Madawaska K., Temiscouata, Lake, Quebec, Can., 22 m. long, outlet Temnikov, t. in Tambov govt., Russ.; Industri.; p.

Temlicouata, Lake, Quebec, Can., 22 m. long, outlet remnikov, £. in Tambov govt., Russ.; industri; p. 15,268.

Jemora, ming. and agr. township N.S.W., nr. Coota-Tempe, romantic vale betwn. Mts. Olympus and Ossa, Thessaly, Groece, 6 m. long.

Templo, t. nr. Ozieri, Sardinia, Italy; corks, etc.; p. Temple, ir. t. in cotton-growe, dist., Bell co., Texas, U.S.A., p. 8,610.

Templemore, mkt. t. on R. Suir, Tipperary, Ireid., p. Te Muka, t. nr. Christchurch, N. Zealand, p. 3,120.

Templemore, mkt. t. on R. Suir, Tipperary, Ireid., p. Temyruk, t. on S. of Azov, N. Caucasia, Russ.; once a Turkish fortress; grain export centre; p. 15,021.

Temsseerim, dtv. Lower Burma, on Samess border; area 36,086 sq. m., extendg. along cst. B. of Bengal; p. 1,150,00; admin. hdgrs. Moulmein. T. t. is on cst of T. div., at mth of R. T. (250 m. long).

Tenbury, mkt. t. on R. Teme. Worcestersh., Eng.; p. 4,202.

Tenby, cst. 202. pl. Pembrokesh., Wales, on Car-Tenedos, ist. off W. cst. Asia Minor, 7 m. long; a Turkish possn. in the Ægean S.; noted in the legends of Trojan times; p. 8,000.

Temerifie, largest of the Canary Isles; area 782 sq. m.; p. 108,000.

Temerifie, largest of the Canary Isles; area 782 sq. m.; p. 108,000.

Tempri-Nor, L. Tibet, 124 m. N. W. Lhassa, 80 m. Teng-Chow, 54t, Shang Tung prov., China; p. 1, ext. 244.

Templemore, L. Tibet, 124 m. N. W. Lhassa, 80 m. Temsender, also C. Fockien prov., China, nr. Amoy; p. 82,450.

Tembass, 1. Tinneville dist., Madras, India; p. 12,244.

soo,ooo; also c, Fo-Kien prov., Chinas, and Sa,470.
Tenkasal, f. Tinneville dist., Madras, India; p. 12,244.
Tennessee, S. centi. 8. U.S.A., bewin, Missishippi R. and the A pialachian intras, and S. of Kentucky and Virginia; area 42,000 ost, m.; cotrou and agr. (clify, Indian corn); p. 2,200,000. Cap. Nashville; clif. port, Memphis.

Tennessee, R. the largest and most impt. branch of the Ohlo, fornied by union of the Clinch and Holston R.'s from Virginia, flows through Tennessee to Paducah, Kentucky, 782 m. from source of Holston R.

Paducah, Kentucky, 782 m. from source of Holston R. [famous steeple; p. 3-376.
Tenterden, mkt. 4 nr. Rye, Kent, Eng.; ch. with Tenterfield, 4. Clive co., N.S.W., nr. Queensland border; gold and tin nunes; p. (dist.) gorg. Teple, terr. Mexico, washed by Pacific; area zr.279 sq. nr.; agr.; p. 150.882. Cap. T., t. nr. the port of San Blas; p. 3-50.4. *
Teplitz, or Toplitz, wat. pl. Bohemia, 47 m. N.W. of Frague; textile and hardware industries; p. 3-6, tod.
Teramo, prov. centl. Italy; area z.05 sq. nr.; p. 3-70.00. Cap. T., on Tardino R.; auc. Internumum; cathedl., Roman antiquities; gd. tr.; p. (com.) 22.618. (com.) 22,618.

Terceira, ist. of the Azores, N.W. of St. Michael,

(com.) 22,518.

(com.) 22,518.

(com.) 22,518.

(com.) 22,518.

(com.) 22,518.

(com.) 22,518.

(com.) 23,618.

(com.) 24,618.

Termini, 191. Palermo, Sicily: tunny fishg., macaroni, olive oil, wine, sulphur; p. 35,118.

Tern, R. Shropsh., Eng., trib. (30 m.) of R. Severn.

Ternate, smi. 1st., of the Moluccas, Dutch E. Indies: also spt. on same, p. 3000; also Dutch residey. of Malay Arch., includg. parts of Celebes, Jilolo, and smil. Isls.; area 155,500 sq. m., nutneg export.

Ternal, 2. Perugia, Umbna, Italy, amongst the Apennines: iron and steel works, arms factory: p. 21,864.

Terodant, 2. in Morocco, cap. Sus, p. (est.) 8,000.

Terractina, 1. in prov. Rome, Italy, on Mediterranean cst.; the anc. Ansur, cathedi., excavatins, temple of Verna, 111 ft. long by 65 ft. wide; p. 6,500.

Terra Haute, c. on Wabasii R., Vigo co., Indiana, U.S.A.; in coal and nat, gas regm.; p. 8,157.

Terranova, 1. nr. Alicata, Sicily, on S. cst., founded by Emperor Frederick II., nr., site of anc. Gala, p. (com.) 184,663.

(coni.) 18,263.

(con.) 18,263.

Terrell, c. Kaufman co., Texas, U.S.A.; in cotton and tumber dist.; p. 8,268.

Territet, v.d. ading. Montreux. [area 45 sq. m.; p. 3,842.

Terschelling, ss.d. Holland, at entce. to Zuyder Zee; Teruel, prov. Spain.; m. S. Aragon; tumber forests, coal-beds, &c., area 2,263 sq. m.; p. 250,000. Cap. T., t. on R. Guadalaviar; cathed! p. 10,017.

Teschen, & nr. Cracow, Austrian Silesia, forner cap. Duchy of Teshen; state printing works, small arms factory; p. 21,642.

[Southampton Water. Test, or Anton, R. Hants, Eng., flows to head of Tetbury, & nr. Ctrencester, Gloucestershire, Eng.; h. 1,078

with Bodenbach; fine château of Thun; p. 9,855; p. 9,855; Tettenhall, perr, nr. Wolverhampton, Staffs, Eng., Tetuan, open port Morocco, on the Mediterranean, S. of Strait of Gibraltar, p. 25,416. Teuk-Shan, a. 45 m. S. W. Tamsui, Formoss; p. 50,000. Teukoburger Wald, mts. range Germy, extendg, from nr. Osnabrick, Hanover, through Westphalia and Lippe; highest pt. 1,500 ft. [Tweed, Tevict, & Roxburgsh., Scoth, trib. (37 m.) of R. Tewkesbury, bor. Gloucestersh., on R. Avon, Eng., p. 2,287.

p. 5.287.

Texarkana, c. of Texas and Arkansas, U.S.A., the divn. passing down middle of main street; timbe and cotton regu.; rlway, workshops; tota

p. 12,620

p. 12,650.

Texas, most S.W. of the Gulf Sts., U.S.A.; area 265,78 sq. in.; largest cotton producy. dist. in the world; p. 300,126. Cap. Austin City; chf., port Galveston. [Doen the scene of many naval battles. Texa, or Tega, or n. Fez, Morocco, p. 12,146. Texcuco, or Texcoco, L., 29 m. E. Of. c. of Mexico; area 77 sq. m.; less than 2 ft. deep; contains no fish; also t. on the banks of L., 16 m. E.N.E. of Mexico, and cap. of the Acolhaus; p. 15,000. Texzute, magnificent ruins, S. of prov. Constantine, Algeria.

Algeria.

Thale, £ in the valley of the Bode, at foot of Harz

Thale, A. in the valley of the Bode, at foot of Harz Mins., Saxony; nr. the Rosstrappe, the Hoxentanz, the saline springs of Hubertusbad, and other picturescue places; p. 11,240.

Thames R. Bucks and Oxfordah, co.'s, Eng., trib. (35 m.) of R. Thames; also mkt. t. on same, Oxfordah, p. 2,957.

Thames R. Eng.; rises in the Cotswold Hills, Gloucestersh., and flows past Oxford, Reading, Windsor, and London to N. S. (35 m.) at the Nore; also R. of Ontario, Can., flows 160 m. into L. St. Clair; also R. of Connecticut, U.S.A., flows (15 m.) into Long 1d. Sound at New London; also R. of New Zealand, flows (86 m.) to Gulf of Hauraki.

Thames Ditton, vil. and residtl. dist. on R. Thames, Surrey, Eng., opp. Hampton Court.

Thana, maritime &tst., Konkan div., Bombay, India; area 3,3754 g. m.; p. 800,000; rice; cap. T., fort. t.

area 3,375 sq. m., p. 805,050; rice; cap. T., fort. L. on Balsette Crock, ar m. from Bombay C., p. 65,050. Thanet, Isle of, N.E. extrem. Kent, Eng., formed by bifurcatn. of R. Stour, contains Margate, Ramagate, and Broadstairs, with other wat, places, res. p. 81.480.

Thann, t. in Aisace-Lorraine, Germy., nr. Mülhausen, prod., wine, cotton, silk, and mchy. manuf., p. 7,680. Thar and Parkar, Att. Sind. div., Bombay, India, area 2,799 sq. m., p. 380,000. Admin. hdqrs. Umarket. Tharandt, beautiful t. and summer rest., on the Wilde Weisseritz, Germy., nr. Dresden, amid beech woods,

res. p. 3,012.

Tharawaddi, esst. Pegu div., Lower Burma, N. of Rangoon, mainly forest, with expanses of rice fields in the clearings, area 2,851 sq. m., p. 400,645, chf. vil.,

These, or Thans, isl. of Turkey, in the Ægean Sea, length z m., area z s sq. m., p. (mainly Greeks) about z0,000; also t. on N. cst., the anc. cap. under

the Romans.

Thaton, dist. Tenasserim div. Lower Burma, area 5,089 sq. m., rice and tobacco, p. 361,450. Hdqrs. t. T., p. 10,255. Thaumako, f. in Thessaly, Greece, nr. Larissa, p.9,124.

Thanted, t. on R. Cheimer, Essex, Eng., nr. Dunmow,

Thaxted, t. on R. Chelmer, Essex, Eng., nr. Dunnow, p. a,o18. [The March. Thays, R. Lower Austria and Moravia, trib. (330 m.) of Thayemyo, stat. Pegu div. Lower Burna, forest, rice, and tobacco, area 4,750 sq. nn., p. 240,000. Dist. hdgrs., T. t. on Irrawaddy R., p. (with wing of Brit. regt.) 21,416. Thebes, ruined anc. csp. Upper Egypt, on both banks of R. Nile, site now partly occupied by villages Karnak and Luxor; also anc. c. Becotia, Greece, betwn. Eubocan S. and Corinthian Gulf, the mod. Thise n. (bbt.) cos.

betwn. Eubcan S. and Corinthian Gulf, the mod. Thiva, p. [abt.] 4,000.
Thiva, p. [abt.] 4,000.
Thiva, N. (6,330 sq. m., p. 12,000) and S. (area 5,000 5q. m., p. 62,500). Shan states of Brit. Burma, oak, chestnut and pine forests, with clearings under rice. Hsenvi, on the Nam Tu R., is cap. N. Theinn, Lashio isthe hdgra t., Mong Yai is the cap. of S. T. Theisa, largest R. of Hungary, princ, trib. (240 m.) of the R. Danube, navigable from Tokay.
Theodosia, or Teodosia,—(See Kaffa.)
Theodole Pasa, over the Alps betwn. Valais, Switzld. and Piedmont, Italy, alt. 10,000 ft.
Therealenstadt, 10yal free and garrison £ dist.
Leitmeritz, Bohemia, Austria, on the R. Eger; in the "Bohemian Faradise" fruit regn.; p. (including garrison of 4,000), 5fc; also T. (or Therestempall), t. nr. Szegedin, Hungary; manuf.; p. (com.) 73,105.
Therezina, £ cap. Piauly prov. Brzzli; cotton and

garrison of Loop y, sol; also 1. Oct I net restant parts.

Lar. Seegedin, Hungary; manuf.; p. (com.) 73, 705.

Therezins, Lap. Plauhy prov., Brazil; cotton and thread factory; p. 42, 50e lebrated pass betwn. Mt. Alta and the sea, N. E. Greece; scene of struggle betwn. Persians and Spartans, 469 B.

Thessaly, or Thessalia, monarchy of Greece, on G. of Salonica, coded from Turkey in accdec. with Berlin Treaty, 1812; area 4,478 sq. m.; p. 148,800; cap. Larissa, an anc. N.E. div., Classic Greece, bd. N. by Macedonia.

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p. 6,973.
Thomsonville, vil. on Connecticut R., Hartford co., Conn., U.S.A., p. 4,865.

Thôngwa, dist. Irawadi div., Lower Burma; area 3.470 SQ. m., p. 500,000; hdqra. t. Mauban. Thorenburg; s. cap. Torda-Aranyos, Hungary, nr. Klausenburg; industri; p. 13.216.
Thorn, fortd. t. on R. Vistula, W. Pruss. p. (with garrison) 92,784.
Thornaby-on-Tees, t. (oppos. Stockton) N.R. Yorks; (inde. sep. municipaly. in 1899) included (as S. Stockton) in parly, bor, of S. (g.v.) with, which it is connected by bridge; has iron industries, and manuf. blue and white pottery; municipality p. 18.60.
Thornbury, mkt. t. nr. Bristol, Gloucestersh., Eng., p. 6,024.

Thorne, mkt. t. nr. Goole, W.R. Yorks, Eng., p. 3.511. Thornhill, mftg. t. nr. Dewsbury, W.R. Yorks, Eng.,

p. 11,305. Thornley, t. nr. Durham, Eng.; industl. p. 3820. Thornliebank, t. nr. Pollokshaws, Renfrewsh., Scotl., [Enga 0, 7,022.

houseness, i. int. roloscanus, Renirewsh., Scott., p. 3.265.
Thornton, t. industl, subn. to Bradford, W.R. Yorks, Thousand Isles, L. of the, expansion of the St. Lawrence R. at outfall of L. Ontario. The isless really number 1,500 to 1,800, and are partly sit. in New York State and partly in the Dom. of Canada; new York State and partly in the Dom. of Canada; new York State and partly in the Dom. of Canada; many of them are picturesque, and furnish summer holiday rests. The Kuriles S. of Kamchatka, are called the Thousand Isls. by the Japs., to whom they belong.

belong.

Thrace, or Thracia, anc. name of S.E. portions of what is now Turkey in Europe, successively under Macedonian, Roman, and Byzantine rule, before passing to the Porte.

Thrapston, indust. 1. n. Northampton, Eng.; boot Three Rivers, c. and port. at conf. R.'s St. Maurice and St. Lawrence, Quebec, Can.; wood pulp manuf.; p. 10,462. Also vl. on St. Joseph's R., Michigan, U.S.A., p. 3.687.

Throston, f. nr. Harlepool, Durham, Eng., p. 4,879.

Thule, classic name of northermost extrem. Britain; believed to have alluss. to Sheltaid.

believed to have allush, to Shetland

Thun, t. on R. Aar, cant. Bern, Switzld. (p. 5.814); rourist centre nr. L. of Thun (v. m. by 2 m.). Thur, R. Switzld., flows 70 m. N. and W. to R. Rhine, nr. Schaffhausen.

Thurgau, cast. Switzld.; area 387 sq. m., bounded by L. of Constance and Baden; p. 115,240. Cap. Frauenfeld (g.v.).

Praconted (g.v.).
Thuringia, regrov of Cent. Germany, seated between Prancona, the Harz Mins. and the R.'s Saale and Werra, and comprising in great pair the minous. Thuringerwald dist.
Thuringian Forest, or Thuringerwald, wild wooded hill range of Centl. Germany, 95 m. long, famous for romantic scenery and legends.
Thuries, mkt. 4. on R. Sur. Tiongers of Vertical Company.

Tomantic scenery and segends.

Thurles, mkt. L. on R. Sur, Tipperary co., Ireland;
horse fair; p. 4,450.

Thurlstone, industi.4, nr. Barnsley, W.R. Yorks, Eng.,
Thurmaston, L. on R. Soar, nr. Leicester, Eng.,
[fishery countre.]

Thuristone, industi.«, nr.Barnsley, W.R. Yorks, Eng., Thurmaston, & on R. Soar, nr. Leicester, Eng., p. 1,846.

Thurmaston, & on T. Bay, Caithness; most N. t. on Scottish mainland; anc. stronghold of the Northmen; p. 3,335.

Tlaro, & nr. Maryborough, Queensland, p. 1,dist.) a, 370.

Tlber, R. of Italy, flows (220 m.) from the Apennines to the Mediterranean, passing Rone.

Tiberias, issee Tabariyeh; Tiberias, Sea of, or L. of Gaillee), Palestine, on R. Jordan, 14 m. by 8 m.; surface 755 ft. below sea-level;

Tibert, a lofty Land of Centil. Asia, dependey, of Chinese Empire; called the "Roof of the World," its lowest plains being 12,000 ft. above sea-level; area 651,700 sq. m., p. (est.) 4,000,000 to 6,000,000. Very much under priestly dominatm, and averse to western incursa; exports wood, musk, gold, skins, and drugs.

Cap. Lhassa (p., w) reached by Brit. expedition, Aug. 1904, when the rights were secured in Tibetan territory by treaty between the Dalai Lama and Brit.

Tickino, or Tessiin, cark. Switzid; area 1,089 sq. m.; forests, vineydas, and agr., p. 140,280. Cap. Bellinzona, largest t. Lugano; also T., R. of Switzid, and Italy, trib. (150 m.) of Po.

Tickhill; a. nr. Rotherham, W.R. Yorks, Eng., p. 1,805.

Tlconderoga, t. Essex co., New York, U.S.A., an outlet of L. George to L. Champlain, fortified by French,

1755 (as Carillon); captured by British (under Amberti) 1750, p. 5.264.
Pideswell, i. nr. Buxton, Peak of Derbysh., Eng., p. Tidore, one of the Spice 1215. of the E. Indian Arch., under Dutch domination.

Thentsin, treaty fort prov. Chih-li, China, 70 m. S.E. Pekin; held on lease by Britain, France, and Germy.; captured by the Allies, after the Boxer rebellion,

captured by the Ames, after the Boter receival, July 14, 1900ego, arch. in extreme S. America, sep. from Patagonia by Strait of Magellan, divided politically betwn. Chili and Argentina; total area of the rt large and 20 sm. isls., 28, 185 qm. m.p. (includg. abt. 1,000 aboriginal Indians) 8,000. Gold is obtained to the control of King Charles, Sauth I and

abt. 1,000 aboriginal Indians) 8,000. Gold is obtained in the Argentine portn. of King Charles South Land, the largest isl. of the arch. [university, p. 11,410. Tiffin, c. on Sandusky R., Seneca co., Ohio, U.S.A.; Tiffin, gow. Transcaucasia, Russ; area 15,305 sq. m.; agr., cattle-reary, vineyds, etc., p. 1,650,000. Cap., T., c. off. R. Kur (cap. also of Caucasia), on main route betwn. Russ, and Persia; manuf. silk, cotton, leather goods, silver-ware, arms, etc., p. 185,000. Tigre, st. of Abysshia, in N.W. basin of the Mareb; formerly an input. kugdon; cap. Adowa. Tigre, or Tegueha, R. Ecuador, trib. (400 m.) of R. Amazon. Tigris, R. Asiatic Turkev, rising in mine of Armaco.

Tigris, R. Asiatic Turkey, rising in mins of Armenia and Turkestan, flowing 1, 100 m, to join the Euphrates 40 m, NW, of Bayar. The Biblical Hiddekel.

Tikari, s. in Gaya dist., Bengal, India: gd. tr., p.

ra,864. [Russ., p. 6,858. Tikhvin, t. at head of canal system, Nowgorod govi.

Jikhymin, f. at head of canal system, Nowcord govi.
Jiburg, f. nr. Breda, N. Brabant, Holland, Hoursh, woolen manufe, p. 55,216.
Jibury, ry. and stmr. s/n with strong fort and extensive docks, N. side of R. Thames, Eng., opp. Greevesend, 20 m. E. of London.
Jichurst, Joar. sulin, to Reading, Berks, Fng., p. 4,824.
Jill, R. N. Northumberland, Ling., trib. (32 m.) of K. Tweed.

Tillicoultry, burgh, Clackmannansh., Scotl., on R. Devon, nr. Alloa; wool factories; p 3,705.
Tilst, t. on R. Niemen, nr. Meinel, E. Prussia; iron-

Hist, 2 on K. Niemen, nr. weinel, t. Frussia; iron-morks and machinery manuf.; p. 37,146
Timaaru, 2. nr. Christchurch, New Zealand, p. 4 118
Timbarra, 2. Nr.S W. in mining dist., 530 m. N. of
Sydney, p. (dist.), 2,080.
Timbo, 2 in Futz Jalon st., Senegamba, French
Timbuctoo, or Timbuktu, chief 2. m the French
Soudan, 8 m. N. of the N. bend of R. Niger, or

Soudan, 8 m. N. of the N. bend of R. Niger, or border of the Sahara desert: a great trade centre; p. 10,000 (had 50,000 mhabs. under Mandingau rule). Timimoun, £ in the oats of Turt, Sahara, p. 8,400, Timor, E. st. of the Malay Arch (Lesser Sunda group); area 12,581 sq. m., divided between Portuguese Timor (7,400 sq. m., N. of the isl., port Dilli) and Dutch Timor (5,131 sq. m., S. of isl., port Colpang). Exports coffee, sandal-wood, pones, etc.; total p. (est.) from 750,000 to 1,000,000 (less than 50 for 2,876.

Europeans). 7. 2000 to 1,000,000 (less than 500 [p. 2876.
Timor, mining vil. Victoria, 120 m. N.W. Melbourne,
Timor-Laut, or Tenimber, van Dutch isil. prouse in
Arafurs Sea, 260 in. N.E. Timor Isl.
Timor Sea, that part of the Indian Ocean N.W. of W.
Australia and S. of Timor Isl.
Timperley, 120. Altrincham, Cheshire, Eng., p. 3,014.
Tingha, tim-mining t. nr. Tamworth, N.S.W., p. (dist.)
3,808.

a,598.

Tinneveill, dist. Madras, Brit. India, area 5,397 sq. m.; rice, coffee, cotton, tobacco; p. 2,000,000; cap. T., t. on Tambrapami R., p. 26,000.

Tino, or Tinos, st. of Greece, one of the Cyclades group; area Br sq. m., p. 12,480.

Tintagel, vil. mr. Launceston, Cornwall, Eng., with ruined castle, reputrab birthplace of King Arthur; Tintagel Head is a rocky cliff on the coast.

Tintera, ruined mediaval monastery on R. Wye, Monmouthsh, Eng., 4 m. N. Chepstow,

Tinto, R. Spain, prev. Huelva, flows (65 m.) to the Atlantic; also hills of Lanarksh., Scotl., highest peak.

Tatvisie, dist. nr. Stalybridge, Cheshire, Eng., p. Thitwisie, dist. nr. Stalybridge, Cheshire, Eng., p. Tapparah, nat. st. (karea 4.086 sq. m., p. 150,000 md Brit. dist. (area 2.491 sq. m., ip. 2.250,000) N.E. Bengal,

India; prod., rice, jute, betel nuts. Admin. hdqrs.,

Comilia.

Tipperary, inid. co. prov. Munster, Ireid.; area 1,659 sq. m., pasture and tillage, p. (decreasg.) 131,951; co. t. Cloumel (q.w.) T., t. 29 m. S.E. Limerick; manuf., has 6,216 inhabs.

Tippermuir, or Tibbermore, 5 m. W. of Perth, the scene of the rout of the Covenanters by Montrose,

scene of the rout of the Covenanters by paramose, Sept. 181, 1644.
Tipton, I. Staffs, Eng., within limits of parly, bor. Wednesbury; has (industri.) p. 31,763; also name of t. in T. co., Indiana, U.S.A.; in 187, regm., p. 4418.
Tiptree Hill, Essex, 34 m. E. of Wilblam, the place where the late Mr. Meclu had his model farm, 1841-

Trana, f. nr. Kroya, Albania; gd. tr., p. 11, 117.
Tiraspol, f. on R. Duiester, Kherson gov., Russ.; flour mills, active tr. with Roumania, p. 20, 185.
Tireboli, f. nr. Ti-bizond, Asiatic Turkey, p. 5,876.
Tireh, f. at foot of Mt. Messogis, Asia Minor, connected by rail with Smyrna; raisins, cont, cotton, ricestr.

rice tr., p. 15,180.

Tirhut, a former dic, of Bengal, but since 1875 has been part of the districts of Darbhangal and Muzzaffarpur.

Tirlemont, t. nr. Biussels, Belgium, on R. Geete; captd, by Marlborough 1705, p. 16,814.

Tirnovo, fort. t. on R. Jantra, nr. Sistova; former cap.

Bulgaria; Husardjami mosque (now used as a powder and dynamite facty.); taken from the Turks by Russ.

in 1877, p. 13,182, Tirol, or Tyrol, prov Austa Empire; comprise the 1704, or 19704, prov Austi Empire; compares, une mountious regn between, Munich and Verona, the Breiman Pars Inrichit, the connectig, way betwn; it the Tirol embraces all the highest pix, of the Austrain Alps, culminating in the Order Spirt /g v.); area of the prov. (exclusive of Voralberg); n.200 Sq. m.; two-

fifths forest, p. 100, 500; cap. Innsbruck (7.72.), mountain posture, vinevils, silk industries.

Trupati, or Tripetti, 'i in N Arcot dist, Madras, Brit India; famous hill temple or pageda, a pl of pligmage, p. 34480.

Allua; tantos an tonge of page 1, 15,480 Tirupatur, / Salem dist., Madras Pres., India, commit Tiruvanumalai, / S. Arcot dist., Madras, Brit. India, p. 10,435. Under Hadder Ah (1759-1782) its fortified hill was a valuable military post

hall was, valuable military post.

Tiryus, an anc. of Argols, 6 m S E. of Argos, at the head of the Argolic G. The history of the place in the head of the Argolic G. The history of the place is the head of the Argolic G. The history of the place is the head of the Argolic G. The history of the Perseus and Iterchie. See Schhemanis Tryus 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880, 1880

Turnen, 2 on R. Turn, Tobolsk govt., W. Siberia, Russ.; carpet and leather manuf., p. 18,618. Connected by rail with Perm, and is on the line of several trade routes. A great fair is held there in

several trade routes. A great fair is held there in January.
Tiverton, munic, bor. Devon, Ring., 14 m. N. Exeter; lace manuf.; p. 10, 205. The Earls of Devon used to have a castle here, but it was disunantled after its capture by Fairfax in 1645, and now the gateway is about all that remains.
Tivoit, L in prov. Rome, Italy; sulphur baths, freqtd. by 40,000 persons annually; p. 12,120. The Falls of Teverone (Anio) supply power for the electric lighting of Rome. The famous Villa d'Este is nr. Tivoit.

Tlaxcala, st. Mexico, ading. Puebla; area 1,595 sq. m.; agr.; p. 185,600; cap. T., t., p. 3,018.
Tlamcen, t. in Oran dep., Algeria; exports olive oil,

grain, wool, onyx; p. 35,746.
Tobago, 41. Brit, W. Indies, and the most southerly

of the Windward grp.; discovered by Columbus in 1489, and named by him Assumption, and has belonged to Britain since 1762. Its present name is supposed to be derived from the fact that the Carib natives were greatly addicted to tobacco; area
114 sq. m.; exports sugar, rum, coffee, etc.; p. 18,800,
nearly all negroes; cap. Scarborough on S. side.
Tobarra, t. in Albacete prov., Spain; industri.; p.

Tobarra, t. in Albacete prov., spam; anousand, Bablymote Bablymote, Tobarcurry, a mkt. t. in co. Sligo, 9 m. S.W. of Tobarmory, spt. on Isl. of Mull, Argylish, Scott, Cirish.

Tobol R. W. Siberia, Russ., trib. (500 m) of R. Tobolsk, gove. W. Siberia, Russ., extender, from the Artic Oc. to the Steppes of Semipalatinsk and Akmolinsk; area 530,600 sq. m.; grain growg., dairying, and cattle raising; p. 1,900,000, nearly all peasantry; cap. T., t. on R. Irtish; fishly, industries

peasantry; cap. T., t. on R. Irtish; fishy. industries and tr.; p. 24,64.
Tocantins, R. ol provs. Para and Goyaz, Brazil; flows 1,700 m. through the Para est. to the Atlantic; navigatn. interrupted by rapids 200 m. above Para. Toddington, t. in Bediordsh., 5 m. N. of Dunstable, p. of parish, 2,183
Todmorden, mkt. and mfg. t. on R. Calder, W. R. Togoland, Germ. protectorate, W. Afr., on G. of Guinea; area 33,000 \$4. m.; p. 2,000,000, chily. Soudanese negroes; cap. Little Popo; Lomo the chief port. chief port.

Tokat, t. on R. Toranli Su R., Sivas vilayet, Asia Minor; copper and yellow leather manuf.; Armenian

Minor; copper and yellow leather manuf.; Armenian massacre 1895; p. 30,000.

Tokay, mkt. co. Zemplen, Hungary; vineyard dist.; p. 5,460. The imperial Tokay liqueur wines are famed for their quality.

Tokio, (formerly called Yeddo), c. on Isle of Hondo, at head of B. of Yeddo; cap, of Japanese Einpire; an immense commerch and industrh, centre, coverg, an area of 100 sq. m. on both sides of R. Sumida, connected by rly. (18 m.) with pt. of Yokohama; wide streets, with ornantl, trees betwm. carriage and footway, electric lighting., Imperial Palace, and other fine bidgs., but most of the houses are of wood; there are numerous gorgeous temples and spacious there are numerous gorgeous temples and spacious parks ; p. 2,860,000.

Tokushima, large t. of Shikoku, Japan, on the N.E.

Tokusnima, large I. or Shikoku, Japan, on the N.E. coast, p. 67,500.

Toledo, prov. Spain; area 5,620 sq. m; nitnous; till recently infested by brigands; agr. and vineyds; also stock raising; p. 393,410; cap. T, anc on R. Taguis; with cathedle, and many species, of Gothic, Moorish, and Castillan architecture in its picturesque narrow streets; and famous Alcazar palace citadel;

sword-naking still flourishes; p. 25,160

Toledo, c. on Maumee R., Ohio, U.S.A.; gt. rly. and infig. centre, covering an area of 28 sq. m.; p

Tolentino, episcopal c. of Central Italy, Macerata Tolentino, episcopal c. of Central Italy, Macerata Tolima, vo/ of the Andes, Colombia, alt. 18,143 ft.; also st. in Repub. of Colombia, area 18,434 sq. in., p.

310,000; cap. Ihaqué.
Tolosa, ¿ prov. of Guipuzcoa, 15 m. S. of San Sebas-

tian, p. 8,342.

Toluca, cap. st. of Mexico, in the Mexican Repub.;
was an Aztec pueblo at the Spanish conquest; p.

21.116.

Tom, R. Siberia, trib. (400 m.) of R. Obi. Tomaszew Mazowiecki, industri. t. Russn. Poland, in govt. Piotrkow, p. 24,954. [form the Mobile. Tombigbee R., Mississippi, U.S.A., flows 500 m. S. to Tomelloso, t. Ciudad Real prov., Span; wine and

brandy export: p 9,255.
Tomintoni, vil. of Banfishire, nr. the Avon, 1,100 ft. above sea-level, 141 m. from Ballindalloch.

above soa-level, 14½ m. from Ballindalloch.

Tompkinsville, now part of Richmond bor., incorporated in New York City, U.S.A., on Staten Isl.,

just above the Narrows of N.Y. Harbr.,

Tomsk, Russn. govt. W. Siberia, adjn.z. Chinese frontier, area 331,150 sq. m.; agr., dairying, stockraisg., fishenes, mining, and manuf.; p. 3,70,000; cap. T., c. on Tom R. and a branch of Trans-Siberian rly.; university, cathedl., and many thriving industries; p. 70,000.

Tonawands, industri. vil. on Niagara R., Erie co., N.Y., U.S.A., p. 8,084.

Tonbridge, t. on R. Medway, Kent, Eng., nr. Tunbridge Wells, and 27 m. S.E. of London, p. 14,797.

Tong, *ser. in Shropsh., s.n. B. of Shifnal.

Tonga.—(See Friendly Isls.)

Tonge, dist. (industr.) adding. Bolton, S.R. Lancs., Tongking.—(See Tonquin.)

Tongres, episcopal c. of Belgium, prov. Limburg, 12 m. N. of Liége; there is a mineral spring near mentioned by Fliny.

Tonk, nat. st. Raputana Agency, India, in six separated portns.; total area 2,509 sq. m., p. 540.185; cap. Tonk, t.nr. the Banas R., walled with muld forts, p. 99,000.

[France; industri.] p. 8,546.

Tonneins, t. on R. Garonne, Lottet Garonne dep., Tonnere, t. on R. Armancon, Youne dep., France, p. 5,594.

S.894. Tonning, fort. t. on R. Eider, nr. Schleswig, Pruss., Tonquin, Tongking, or Tonkin, N. prov. of Annam; ceded to France in 1884; aren 34,748 sq. m., p. (est.) 6,000,000. Hal-phong is the French mil. and admin, pt.; Hanol, on the Song Ka, or Red R., the largest T. Tonsberg, t. (fort.) on B. nr. entrance to Christianla Fiord, Norway; hdqrs. of sealing and whaling fleet, oll mills: p. 8,868.

Toombudra R., rises in S.W. Mysore, and flows 400 m. N.E. to the Kistnali, below Karnul.

Toomyvara, vol. nr. Meneagh, co. Tipperary, Ireld., p. (dkt.) 1,274.

Towwoomba, t. in Aubigny co., Queensland; centre of pastoral dist. Darling Downs; wine manuf.; p. 10,464.

or pastoral dist. Daring Downs; wine mann.; p. 104,64.

Topeka, c. on Kansas R., Shawnee co., Kansas, U.S.A.; flour miling, large tr.; p. 43,684.

Tophane, sub. Constantinople, with arsenal N.E. Tophitz, or Teplitz (g.z.), Bolemian Spa. [of Galata. Topisham, inki. J. Devon, on the Exe, 4 m. S.S.E. of Extert, p. of par, 3,652.

Torcello, ist. (with anc. Byzantine cathed.) on lagoon Torda, old. rn R. Aranyos, S.E. Kolosvar, Hungary; salt-mines and baths, romainte "Cleft of Torta," with caves and steep rocks in ravine near; p. 12,449.

Torgau, r. on R. Elbe, Prussi, Saxony; royal stud-farm of Graditz in vicinity; p. 12,166.

Torjok, r. Tver govt. Central Rus; a river port and ep.scopal see, 40 m. W.N W of Tver co; p. 12,142.

Tormes, R. of Spain, trib. (150 m.) of R. Douro; passes Salamanca.

Tornea, R. Lapland, flows (230 m.) betwn. Sweden and Russ, to the G of Bothua.

Toro, old r. Zamora prov., Spain, on R. Douro; cathedri, convents, places; p. 8,486.

[D. 6,564.

Torok Beese, 7 on R. Thess, nr. Szegedin, Hanover; Torokszentmiklos, mkt. r. on Alfold plain, co. Jasz-Norosk Russ. Soukol Euneary dist. in 2 arr.

Török Becse, / on R. Theiss, nr. Szegedin, Hanover; Törökszentniklos, nkt. / on Alföld plain, co. Jasz-Nagy-kun-Szolnok, Hungary; agr. dist; p. 22,427. Toronto, c.q. Ontario prov. Can., on B. of T. Lake O.; spacious harbr, university, extensive tr., and mannf.; exports grain, timber, cattle, etc.; fine parliament bldgs, parks, etc.; p. 376,000. Torquay, yant, pl. on Tor Isay, Bevon, Engl.; p. 38,772. Torquemada, /. nr. Palencia, Spain; p. 2,786. Torre del Greco, /. on B. of Naples, Italy, at foot of Mt. Vesuvius; lava quarnes, simpbldg. yards, coral fishy: in 27,608.

fishy, i p 25,406.

Torre dell' Annuziata, t. on E. side, B of Naples, at S. foot of Mt Vesuvins; royal arms factory, macaroni manif., silkworm-breedg: p. 29,112.

Torredonjimeno, t. on R. Salado de Porcuna, prov.

Torredonjimeno, f. on R. Salado de Porcuna, prov. Jaen, Spuni, wine, wheat, fruit; p. 11,100.
Torres Novas, f. Santarem dist., Portugal; jute, cotton and paper factories; p. 11,465.
Torrens L., 50 m. N. of Spencer's Gulf, S. Australia, named after Sir R. R. Torrens; it measures 130 by 20 m., and varies from the condition of a brackish lake to that of a tract of salt marsh.
Torre Pellice, vil. of Piedmont, 34 m. S.W. of Turin the headquarters of the Waldcuser.

Torre Pellice, vil. of Piedmont, 34 m. S.W. of Turinthe headquarters of the Waldense, Queensland, and
New Gumea, 50 m. wide, dangerous navigation.
Torres Vedras, c nr. Lisbon, Portugal; hot suiphur
haths; here were the famous fortificatus.— the
lines of Torres Vedras"—constructed by Wellington in 1810; p. 6,888.

Torreviege, 59t. Alicanti prov., on S. cst. of Spain; salt-beds, fisheries, etc.; p. 8,065.
Torridge, R. Devon, Eng., trib. (37 m.) of R. Taw. Torrington, Great, t. on R. Torridge, nr. Bideford, Devon, Eng.; silk-glove industry; p. 3,041; also to N. Naugatuck R., Litchfield co., Connecticut, U.S.A.; manut; p. 15,084.
Torry, a fishing vii. at the mouth of the Dee, in Kincardinesh., opposite Aberdeen.
Torshok, t. in Russ., 30 m. S.E. of St. Petersburg.
Tortola, one of the Virgin isls., Brit. W. Indues, 12 m. long, 4 m. wide, p. 6,120.

Tortola, one of the Virgin Isls., Brit. W. Indies, iz m. long. 4 m. wide, p. 6,120.
Tortona, f. nr. Alessandria, N. Italy, the Roman Dertona, cathedral, p. (com.) 15,248.
Tortona, fort. 6 on R. Ehro, Tarragona prov., Spain, wine, oil, and fruit, p. (with barracks), 24,056.
Tortugas, 'en small sistes of Florida, at the entrance of the Gulf of Mexico, 120 on. W.S.W. of C. Sable.
Tory Island, 4:6.2 m. mlong, 9 m. off the N.W. est. of Donegal; it has a lighthouse and a signalling station connected with Londonderry.
Totans, £. on R. Sangonera, Murcla prov., Spain, wheat, olives, oranges, p. 11.824.
Totnes, bor. on R. Dart, Devon, Eng., originally walled, two gates remain, p. 4,128.

Totnes, 807. on R. Part, Devent, Eng., originary wanted, two gates remain, p. 4,728.

Totonicapan, r. on high plateau of Guatemala, amidst luxuriant gardens, hot minl. springs, p. 25,000, manily Quiche Indians, skilled in furniture, pottery, and musical inst. manuf.

Tottenham, N. sub. London, co. Middlesex, Eng., p., includg. Wood Green, 137,457, industri. and

p., include residentl.

Tottenville, former vil. on Staten I., now included in Richmond bor., and incorporated with New York

City, U.S.A. Toul, 4 nr. Nancy, dep. Meurthe-et-Moselle, France, embroidy, pottery works, artillery park, ainid fortid, hills, p. 9,528.

Toulon, 54. c. and naval stn. on Mediterranean, dep. Var, France, arsenal, fine buildings, shipbidg., lace-mkg, wine-grg, fisheries, p. 124,624.

Toulouse, c. on R. Garonne, dep. Haute-Garonne, France, imposing bidgs, and inonunents, museums, university, learned societies, cathedral, surfered in the Higgment wars, last battle of Pennellar campaign. Huguenot wars, last battle of l'enneular campaign

fought here, p. 154,000. Toung-ngu, c. m Burna, 170 m. N.E. of Rangoon,

Tournal, to in Burnal, 190 in N.E. of Kangoon, p. 21,500.

Tournaine, former prov. France, now divided into Indre-et-Loire, and part of Vinnie deps.

Tournoing, t. in Lille, dep. Nord, France, flourishing textile industries, p. 82,114.

Tournal, t. on R. Scheldt, nr. Mons, prov. Hamault,

Tours, t. on R. Schener, in Broths, prov. Falliant, Belgium, carpet mifg, p. 33 410

Tours, t. on R. Schoire and Cher, dep Indre-et-Loire, France, splendld Gothic cathedli, silk cloth, carpet and pottery mifg, p. 74.182

Towanda, bor, on Susquehamia R., Bradford co., Penn., II S. A. Funiber and former many or control.

Tower Hamlets, bor. Middlesex to, Eng. in E. London, industri and residth, contains the Tower of

London, p. 442,430.

Tow Law, industri. t. nr. Durham, Eng., p. 4,327.

Townsville, 19t. on Cleveland Bay, Queensland, p. (filiet) c. R.R.

[(dist.) 5.818. Towong, t. on Murray R., Victoria, pastoral dist., p. Towton, vil. 3 m. S. of Tadeaster, W.R. Yorks, was the scene of a famous battle in 1461, when the Lan-

the scene of a famous battle in 1461, when the Lancustrians were defeated.
Towy, R. S. Wales, flows 65 m. S.W. to Carmarthen B. Towyn, mkt. L. and wat. P. Merionettish., Wales, p., 3,099.
Toxteth Park, twarth, within parly, bor., Liverpool, Toyama, t. on the W. coast of Japan, p. 53,00.
Tracadic, fishing t. on the E. coast of New Brunswick, Canada, 55 m. E. of Bathurst; has a leper hospital.
Trafalgar, Cape, on S.W. cst. Andalusia, Spain, between Cadiz and Gibraltar; in the bay Nelson's crowning victory was gained, Oct. 21, 1504, costing the gallant admiral his life.
Trafford, a populous sub. of Manchester, at the end

Fractiond, a populous sub. of Manchester, at the end of the Ship Canal.

Trales, cst. f. co. Kerry, Ireld., on R. Lee, p. 9,824.

Tramore, mkt. t. co Waterford, Ireld., p. 2,021. Tranent, burgh., co. Haddington, Scotl., in colly.

dist., p. 4,369.

Trani, Italian spt. t. on the Adriatic, Brani prov., 28 m.

N.W. of Bari; has a famous 12th century cathedral, p. 25.394.

p. 25.394. Tranjore dist., Madras, India, impt. missa. stn., p. 6,248. Transbalkalia, prov. of Siberia, Russ., E. of Lake Baikal and adjoing. Climese Mongolia, area 226.868 sq. m. agr., with great null. wealth, p. 820,000; traversed by the Yabionoi Mtns. and the Siberian

traversed by the Yablonoi Mins. and the Siberian ry., cap. Chita.

Trans-Caspian Territory, prov. of Russ., E. of the Caspian, N. of Persia, and reachg. to Alghanistan, area 220,540 sq. in.; mining, agr., gdng., cattle breeding, and many domestic industries, p. 350,000, largely nomad Turkomans and Kirghiz. Askhabad, 21,164, is the most populous t. in the terr., Merv and

at.104, is the most populous t. in the terr., Merv and Krasnovoks (q v.)
Trans-Caucasia, par. (S.E.) of the general govt. of Russ. Caucasia. (See Tiflis.)
Transkel Territory, Cape Colony, lies between the Great Kel R. and Natal: formerly it constituted the chief part of Kaffaraia, but is now divided into Griquation. land E., Tembuland, Pondoland, and Transkei proper; area 2,552 sq. m., p. 181,200, of whom some 1,800 are Europeans.

Transleithania, those countries of Hungary lying beyond the R. Leytha, which forms the E. bdy. of

Lower Austria.

Transvaal, The. Province of the Union of S. Africa, area 110, 26 sq. m., p. 1,700,000, abt. 250,000 of whom are whites, mostly British and Boers; agr., with considile, min, wealth; cap. Pretona; p. of Johan-

nesburg numericality, 237,220.

Transylvania, formerly a sep crownland of the Austro-Hungarine Empire, now in riged in Hungary proper; surrounded and traversed by the Car-

pathians, area 21,159 50 m. p. 2,500,000.

Trapani, fort. 19t. Sicily, Italy, on W. cst., exports salt, wine, and fish. p. 08,124, formerly a Carthaginan stronghold.

Trappe, La, a narrow valley, nr. Mortagne, in the dep. of Orne, famous for its 12th century Cistercian abbey, which since 1662 has been the oriental headquarters of the Order of the Trappists. Traquair, a sm. par. in Peeblesshire, 1 m. S. of Inverteithen.

Inverteithen.

Trasimeno, or Lake of Perugia.—(See Perugia.)

Tras-os-Montes, or Traz-os-Montes, former prov.

N.E. Portugal, area 4,259 sq. m., p. 430,000, and
now merged in dists. Braganza and Villa Real.

Trau, 59t. Dalmatia, on the Adriatic, nr. Spalato,
ruined Venetian fort, p. (com.) 27,500.

Traun, R. of Upper Austria, trib. (roo m.) of R.
Danube, expands in the Salzkaimergut, nr.
Gmunden, into the picturesque lake known as the

Traun See, 8 m. by 2 m.
Traunstein, t. nr. Salzburg, Upper Bavaria, summer rest., with saline and whey baths, p. 8,024.
Trautenau, t. nr. Könggratz, Bohemia, at foot of the

Riesengebirge, on frontier of Prussn, Silesia, manuf., p. 15,246.

Travancore, nat. st., S. India, in connection with Madras; area 6,370 sq. m.; exports cocoa-nuts, timber, spices, coffee, tea, etc.; p. 3,000,000. Cap, Trivandrum. [land, nr. Neufchâtel, p. 2,816. Travers, v.i. in the beautiful Val de Travers, Switzer-

Traverse, Lake (20 m.) long, betwn. Minnesota and Dakota, U.S.A., Traverse City, lake port of Michigan, U.S.A., on Grand Traverse Bay; timber industries and tr.; p.

Travnik, the former cap. of Bosnia; 45 m. N.W. of

Sarajevo; p. 6, roo.
Trawden, industri. tumskė. nr. Colne, Lancsh., Eng.,

Trawien, industri. Fransisp. Int. Cource, Lancain., Eug., p. 4,064.
Trabbila, a southern frib. of the Po, and the scene of the defeat of the Romans by Hannibal, 218 B.C.
Trabizond, vilaves Asiatic Turkey, on S. est. Black Sea; area 12,39 50. Im., mountainous and afforested, with much fertile land and consid. minl. wealth; p. 1,200,000. Cap. T., t. on Black Sea, mil. stn., large

tr. and active industries, the anc. Trapezus, defended by citadel and forts; p. 40,000 (18,000 Christians); Armenian massacre, 1895; [R. Sirhowy, p. 23,604. Tredegar, nikt. and mining £ Monmonthsh. Eng., on Tregaron, £ of Cardiganshire, 10 m. N.E. of Lam-peter; p. 2021.

Tregaron, 6. or carugaments, 50 m. peter; p. 2, 2931.

Treig, Lock, 5; m. long, § m. wide, and 784 ft. above the sea-level, in S.W. Inverness-shire.

Tremta y Tres, a dep. or Uruguay, deriving its name from the thirty-three (Tremta y tres) patriots who revolted against the Brazilian govt. in 1825; area

3,686 Eq. m.; p. (abt.) 31,000.

Tremadoc, vil. in Camaryonshire, 1 m. W.N.W. of

Tremore, bor. Penn., U.S.A.; industri.; p. 3,146.

Trent, R. Eng., rises in N. Statts and flows (170 m.)
through Derbysh., Notts, and Luccolnsh. to join the Ouse in forming the est. of the Humber; also small R. Dorset, Eng. (alternately called the Piddle), flows 20 m. to Poole Harbr.; also R. of Ontario, Cainada, flows 100 m. to B. of Quinter; also c. of the Austrain Tyrol, on R. Adige; extensive fortifications, silk manuf., sausages and comestibles, catheda and famous ch. of St. Maggiore, in which met the fainous Council of T., 1545-63; p. 26,050 (including garrison of 2.250).

Trentham, 227. and industri dist. Staffs, Eng., on R. Tienton, c. on Delaware R., Mercer co., New Jersey, ".S.A., cap, of the st.; 1701-works, pottery, rubber, and other manuf.; p. 96,875. Also c. on Grand R., Alssouri, U.S.A.; tr. centre in farui region, p. 5814, Also t. on R. Trent, co. Hastings, Ontario, Canada; p. 3.755. Ouse in forming the est, of the Humber; also small

p. 3.735.
Treport, Le, 59t. nr. Dieppe, dep. Seine-Inférieure,
France; sea-bathing resort, fishy, ind.; p. 5.214.
Tresilian, 20t. of Cornwall, 34 in E.N.E. of Turo;
the scene of Sir Ralph Hopton's surrender to Fairfax

Treves, anc. c. Rhine Prov., Pruss, on R. Moselie: Treves, and C. Runne Trady, Prins, of R. Moseller, Cathedl. (containing the Holy Coat said to have been worn by Christ), visited by 1,500,000 pilgrinis in 1844 and 1801, many Roman antiquities; p. 45,818.

Trevigilo, 7. nr. Bergamo, Lombardy, Italy; silk

manuf.; p. 10416.
Trevise, Z. in Venetia, Italy, on plain betwn the Alpand G. of Venice; bombarded by Austrans, 1848.
Triabuna, Z. nr. Hobart, E. est Tasmania, p. (dist.)

Triabuna, t. nr. Hobart, E. est Tasinania, p. (dist.) 3,849. [clock-uakg., p. 3,545]
Triberg, health rest. Black Forest, Baden, Germy. Trichinopoly, dist. Matiras, Brit. India: a rea 3,641 sq. m.; millet, rice, cotton, tobacco; p. 1,140,000; cap. T., t. on R. Cauvery; cigars from the Dindigul tobacco field, goldsmiths' work, pith modelling; p. 122,180.

Triermain, nr. Bewcastle, Cumberland, where stand the rulns of an ancient castle.

Trieste, t. on the Adriatic, prin. spt. of Austria-Hungary; shipbldg, and extensive commerce; cathedral, castle, Roman antiquities; many manuf.; p. (includg. garrison) 230,860. (p. 11,924. Trifail, t. on R. Save, Styria, Austria; lignite wks.; Trikkala (anc. Trika), t. in Thessaly, Greece, nr.

The tribute the tribute of the tribute of the tribute of the tribute of the tribute of the tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute of tribute

also t. cap. of st., p. 15,800.
Trinidad, isl. Crown Col. Brit. W. Indies; area 1,754 Trindad, ist. Crown Col. Brit. W. Indies; area 1,753 sq. m.; sugar and cacao growg; ¿labo collee, tobacco, bananas; oranges, and rubber; p. 274,894; cap. Port of Spain (g.v.); also uninhabited volcanic isl. S. Atlantic, 680 m. E. of Brazil; also t. nr. S. cst. Cuba, 3 m. from Casilda port; exports honey; p. 12,800; also c. on the Purgatory R., Colorado, U. S.A.; riy. wks, in colly, dist.; p. 5,472.

Trinity, R. Texas, U.S.A.; flows (500 m.) to Tri oli, up to 102 a Turkish vilayer, but since then an Italian colony of N. Africa, extendg. from the Sahara Desert to the Mediterranean; area abt.

400,000 Sq. m.; p. 1,500,000; exports weols, skins, alia grass, 1vory, feathers, etc.; cst. formerly notorious seat of Barbary pirates; cap. T.; spt. 300 m. S. of Sicily; inftg carpets morocco leather, etc.; p. (est.) 40,000; also name of chf. t. (called Tarabulus locally) of Sanjak in Beirat vilayet, Syrin, 2 m. inland from port El-Mina; exports sponges, silk thread, oranges, etc.; p. 29,416.

Tripolitza, t. nr. Argos, on the Morea, Greece, cap. of Arcadia, p. no.618.

Tripolicas, I. III. Argus, on the Moses, Greece, Leg. on Arcadia, p. 10,618.

Tristan d'Acunha, isl. promp (3) in S. Atlantic, 1,500 in S.W. of St. Helena; annexed by Britain 1816; garrison withdrawn the next year, leaving 14 people behind. Present p. (60) descended from these and settlers from whaling ships. The isls., politically under Cape Colony, are visited once a war hu a British warehin.

year by a British warship.

Trivandrum, t. in Southern India, cap. st. Travancore (q.v.); cantoniaent for Nair brigade; wood-

carving; p. 28,000.

Træzen, / in Argolis in ancient Greece, subject first to Argos, later to Sparta, and, from 459 to 445 B.C., to

Trois Rivières, c. Quebec, Can., p. 14,000. Troitsk, c. Penza govt., Rusaa, p. (industrl.) 6,846; also Russian c. in Orenburg, W. Siberia ; large trade; p. 16.216.

p. 16,216.
Troitskosavsk, f. nr. the Chinese frontier, Transbatkalla prov., Russia; clf. t. of dist. p. 11,225.
Trollhatta, voater/all in Gola R., S. Sweden (too ft.); used largely for supplying power to industrial establishments. A canal was cut round the falls in 1844.
Trömso, 5pt. on su. 18, of T. in T. Sound, Finmark, Namaus and and says 6 shing and trade: p. 2016.

170m50, 596, on sin, isi, or 1, in 1, Sound, Finnara, Norway; seal and warts fishing and trade; p. 7,006.
Tondhjem, 596, on W. coast Norway, S. side T. Fjord; exports timber and wood-pulp, butter, fish, copper; contains anc. cathedral, burial place of early Norwegian kings, and place of coronation of

recent sovereigns; p. 40,189. Troon, spt and wat. pt. Ayrsh., Scotl.; good harbour

and graving docks; p. 6,028.

Troppau, fortid. c. on R. Oppa, close to Prussian frontier, cap. Austrian Silesia; hat and jute manut.; p (with garrison of 2,160) 29,118.

Trossachs, romantic min. defile of Perthsh , Highlands, nr. Callander, Scotl., tourist centre for beautiful

Trouville-sur-Mer, wat, pl. at mouth of R. Touques in B. of the Seine, Calvados dep., France; boat-building, hisheries, etc.; p. 7,200. The t. of Deaubuilding, hisheries, etc.; p. 7,200. The t. of Deauville, across the Touques, has p. 3,075.

Trowbridge, mkt. 2. nr. Bath, Witts, Eng.; cloth

works; p. 11,822.

works; p. 11,822.
Troy, anc. c. ol the Troad, Asia Minor, famous in classic Grecian legend as the cap. of Iruam; identified by some as the modern Hissarlik, and by others as Bimarbashi. Also c at mouth of Mohawk R. on the Hindson, New York, U.S.A.; great shift mfg. centre; p. 76.850. Also c. on the Mianit R., Ohio, U.S.A. p. 6,704.
Troyes, c. on R. Seine, Aube dep., France; former cap. Champagne; magnif, cathedral, hosiery manuf.; p. 53.217.

cap. Champagne; mag.m. canactan, no. p. 53,217.
Trujillo, old \( t \) in prov Caceres, Spain; wheat, wino, fruit, phosphorite, tumber, Roman remains, p. 13,110.
Truro, \( c \), at conflu, R.'s Kenwyn and Allen, Cornwall, Eng. nr. Falmouth; cathedl. (completed 1897), tumenetting, Jam works, p. 17,325; also t. on the Salmon R., Nova Scotta, nr. ht. of Cobequid Bay; p. 6,224.
Tsaritsin, fortfd. \( c \) on R. Volga, govt. Saratov, Russ.; or transit tr. by river and rail, p. 48,526.

Tsaritsin, fortfd. t. on R. Volga, govt. Saratov, Russ.; gt. transit tr. by river and rail, p. 48,526.
Tsarskoe-Selo, t. on. St. Petersburg, Russ.; two splendid palaces of the Czar, p. 16,000.
Tsi-man, a c. of China, on the left bank of the Ta-tsin R., too m. from the Gulf of Pe-cli-li, with manufa, of class and silk; p. 24,000.
Tsitsihar, t. of Manchuria, on the Vladivestock portion of the Trans-Siberian Ry., 250 m. S.W. of Algun, p. 83,000.
Tsitsihar, t. Fo. Vice page Chir., p. 11,400.

or the trans-shornan Ky., 250 m. s.w. of Algun, p. 83,000.
Tsong-Gan-Hien, t. Fo-Kien prov. China; black tea Tsuruga, t. on W. side isl. Hondo, Japan p. 20,854.
Tsuruoka, t. of Japan, 70 m. N.E. of Niigata, p. 81,600.
Tsu-shima, Japanese 1st. betwn. Korea and the isl, of Iki; area 262 sq.m., p. 40,146. Chf. t. Izu-ga-hara.

Tuam, mkt. t. co. Galway, Ireld.; Roman Catholic and Protestant cathedls. p. 2,000. Tuamotu, coral erch. in S. Pacific, part of French dependey. Tahiti; area of grp. 330 sq. m., p. (abt.) 7,000; gd. harbr. at Fakarava. Tuat, earls of the Sahara, S.E. of Morocco, under

Tuat, easis of the Sahara, S.E. of Morocco, under French dominatn, cnp. Agnhly.
Tübingen, s. on R. Neckar, Würtemberg, Germy, i. at, ninversity in which Melancthon, Reuchlin, and Belel taught. The Tübingen school of theology was founded by F.C. Baur, and has now over 1,000 students; p. 17,248; printing works, factories, dyeworks. Unland was a native of Tubingen, and there to a statue of him.

is a statue of him.

Tubual, or Austral Isls., grp. in S. Pacific, belonging to France since 1881, p. 2.014; their chief products are oranges, bananas, cotton, sugar, and tobacco.

Tucson, c. on Santa Cruz R., Arizona, U.S.A.; in gold, silver, and copper mining regn., p. 8,765; was founded in 1560 by a Jesut mission, and from 1876 to 1877 was the capital of Arizona.

Tucuman, prov. Argentina; area 8,926 sq. m., agr. and stock-raisg., p. 260,814. Cap. T., c. on Rio Sali,

p. 35.775
Tudela, c. on R. Ebro, prov. Navarre, Spain: dis-tilleries, fruit-preserve, factories, etc., p. 8,828.
Tuena, ming. and faring. dist. N.S.W., 200 m. S.W.

Thera, ming. and faring. dist. N.S.W., 200 m. S.W. Sydney, p. 12,600.

Sydney, p. 12,600.

Jaco m. S.E. to sea, 10gela, R. Natal and Zululand. Brit. S. Afr., flows Tula, geot. of Centl. Russ., S. of Moscow; area 11,534 sq. m., gram-growg., pasturage, stock-keeping, p. 1,775,000.

Cap. T. t. on both banks. R. Upa; gun factory, sugar mills, and many sulr. industries, p. 130,000 (doubled m last 20 yrs.)

Fulare, L., in T. co., California, U.S.A., 33 m. long, Tulbagh, div. W. prov., C. Colony, Brit. S. Afr.; area 4,976 sq. m., p. 13,600 cap. Ceres. [wool tr.; p. 19,152 Tulcea, t. on R. Danube, Roumania; fish, grain, and Tulchin, d. in Podolola govt., Russ; founded by Hungarians, annexed by the Caza, 1793; flour and Tulchin, d. in Podolola govt. Russ; founded by Hungarians, annexed by the Caza, 1793; flour and Tuldia, f. in the Dobruelja, Roumania, n. Galatz. good Tuli, a 1772. of the Limpipo, also fort and station in Rhodesia. At the fort the trade route and telegraph cross the river from Bechuanaland.

Tulla, mkt. t. in co. Clare, Irel , ro m. E of Ennis, p Tullamore, nikt. 1. King's co., Ireland, on Grand Cunal, nr. Portarlington . p. 5,040. Tulle, 1. cap. Corrèze dep , France; natl. sml. arms

Tulle, 1. cap. Corrèze dep., France; natt. sml. arms factory; p. 18,710.

Tummel, R. Perthsli. Scotl.; flows 29 m. to R. Tay, through Loch Tummel.

Tumbridge Wells, mkt. 1. and fash inld. wat pl., Kent, Eng., on border of Sussex, 5 m. S. of Tonbridge t and rly, luctn. The chalyhette waters here date from roco, when they were descovered by Lord North. There are the remains of an old Norman carthe. In the roce.

Castle; p. 35,703.
Tundia, R. Rounelia, trib. (150 m.) of R. Maritza.
Tungabadras, R. S. India, formed by meth of R.'s
Tungara and Bladra, forms N. boundary of Madras,
trib. (170 m.) of R. Kivina Tungu, or Toungoo, dest Tenasserim div of Lower

Burma; area 6,172 sq. m; rice and coffee culture; p. 302,614. Cap. T., p. (with nul. police buttain.) 20,140. Tunguska, a 1716, of the Yenisei, in Siberia

302.014. Cap. 1., p. (with mil. police britain.) 20, 140. Tunguska, a trib. of the Yenise, in Siberna Tunis, one of the Barbary states N. Afr.; now a French regency; area (without the Sahara dists, properly allotted to Algoria) 45,000 sq. m., p. 2,000,000; agr., stock-rearing, mineral and phosphate working, silk and carpet weaving, pottery manuf., fisly. (Including sponges): also fruit and flower growing, and perfume distillation. Has a productive soil yielding excellent crops of grain; and dates, oranges, figs, pomegranates, caives, grapes, and other fruits are plentifully raised. There are valuable marble quarries. The pasturage is abundant, providing ample support for extensive flocks of sheep and hereds of cattle. None of the rivers are open to navigation. Chief t. T., spt. on bay off G. of T.; bazaars, palace of the Bey; many industries, much tr.; p. 150,000. The ruins of anc. Carthage are to the N.E.

Tunstall, industri. A. nr. Newcastle, Staffs, Eng., collienes, potteries, and ironwks.; p. 30,302.
Tura, R. Siberia, in Russn, govts. Tobolsk and Perm (300 m.), trib. of R. Tobol.
Turfan, a c. in Eastern Turkestan, on the southern side of the Tian-Shan Mins. p. 31,200.
Turgal, govt. Russn. Centl. Asia, N. of S. of Aral, area 176,279 sq. m.; agr. and cattle breeding; p. 500,000 (largely nomadic Kirghiz); cap. T., t. off. caravan road from Tashkent to Orsk, p. 3,460.
Turia, c. N. Italy, on R. S Po and Dora: former cap. Pledmont and the Sardinian sts.; has cathedli, university, royal palace and castle, and Palazzo Cargnano: thrivg, and varied manufs. and extens. tr.; p. (com., includg. gartison, 8,500 strong) 497,733.
Turkestan.—(See Tartary.)
Turkestan, or Hazret, f. in the Russn. Turkestan prov. Syr Darya, on high rd. from Tashkent to Orenburg; old mosque and pilgram shrine; gt. cattle and wool fairs; p. 13,046
Turkestan, E., or Chinese, dependency of Chinese Emp. in Centl. Asia, included officially in the Chinese Emp. in Centl. Asia, included officially in the Chinese Emp. in Centl. Asia, included officially in the Chinese Emp. in Centl. Asia, included officially in the Chinese Prov. Hen. Kang; esp. from W. or Russn. Turkestan by Panur plateau; area 491,800 sq. m., largely desert; p. 1000 occ. extraots hus and darports. etc.

by Panur plateau; area 431,800 sq. m., largely desert;

prov. Hsin-Kiang; sep. from W. or Russin. Turkestan by Painir plateau; a rea 431,805 qt., largely desert; p. 1,200,000; exports rugs and carpets, etc.
Turkestan, W., or Russian Turkistan, a good.ganl. of Asiatic Russ., area 439,279 sq. m., domiciled p. 6,200,000; agr., stock-kpg., and various mitg. industries; cap. Tashkent (g v.).
Turkey, or the Ottoman. Empire, large st. of the Eastern Hemisphere, consisting of Turkey in Europe and Asiatic Turkey, under the immediate rule of the Sultan, and of dependencies in Africa and Europe. The losses of territory in the war with the Balkan States in 1912-13 can hardly be definitely stated at the moment, so much of the delimitation still remaining in doub. Portions have led in the coded to Greece and Servia, and for the formation of the new state of Albania. What was lost to Bulgaria seems to have lieen won back. Total area 1,200,000 sq. m., p. (est.) 30,000,000. Turkey in Europe now comprises about 12,000 sq. m., with a p. of some 2,800,000, including the villayets of Constraintionple and Admanople, with the Mustes-saridat of Chatalla. The N. W. portion of Turkey in Europe extends to a hine drawn from Enos in the Ægean to Midia in the Black Sea, and now also including Admanople. Turkey in Asia Comprises (with the Archipelago) 200, 380 sq. m. in Asia Minos, etc. in In Armena 200, 200, in in News and (with the Archipelago) 200,380 sq. m. in Asia Minor, 92,720 37, m. in Armenia, 209,270 3Q, in in Syria and Mesopotennia and 173,700 sq. in in Arabia. African Turkey includes the suzerain territories of Egypt, Cyprus, and Samos, together covering 368,700 sq. m.; cap. Constantinople. (See separate entries)
Turk's Isls., But. grp. in S of the Bahamas, subject

to Jamuca (q.w).
Turkmanshai, wt. of Azerbijan, 65 m E.S.E. of Tabriz.
Turnau, t. on R. Iser, N Bohema, Austra: glas:
cuting: p. 6,500 Battle fought here on June 20, 1866, when Austrians were defeated by Prassians.

Turnberry, a ruined castle on the coast of Ayrshire, 6 nr. N. of Cirvan. Supposed to be the birthplace of Robert Bruce. There is a lighthouse within the

ruins.

Turnham Green, S.W. cub. London, in Middlesex co.,
Eng., p 5,216 [plaving-card manuf.; p. 21.850.
Turnhamt, r. m. Antwerp, Bolgium; lace-making,
Turnu Magurele, r. nr. the R. Danube, Teleorman
dist., Roumania, almost opp. Nicopoli, Bulgaria;
grain fr.; p 6,146

grain tr.; p. 9,146.

Turnu Seperin, the low the Iron Gate cataracts of R. Dauube, Mehedinti dist., Roumania; nr. are remains of Trajan's bridge, built A.D. 203; pig and

remains of Trajan's bridge, built A.D. 203; pig and cattle tr; p. 19,415.
Turriffs, burgh in. R. Deveron, Aberdeensh., Scotl.; Turton, t. nr. Bolton, S.E. Lancs., Figl.; industri., p. 12,651.
Tuscaloosa, t. on Black Warrior R. Alabama, U.S.A.; Tuscany, "compartimento and former grand duchy, Italy; nrea 0,304 84. m.; p. 2,694,516. Includes provs. Arezzo, Florence, Leghorn, Slena, Grosseto, Lucca, Pista, and Massa and Carrara, which see Tusculum, in ancient times a c. of Latium, but now ruins, tr m. S. of Rome.

ruins, 15 m. S. of Rome

Tuskar Rocks (with lighthouse) off cst. Wexford, Ireld.

Ireid.
Tuskegree, f. in cotton regn., Macon co., Alabama, U.S.A.; noted for educatni. institus, includy. college for coloured students; p. 2,340.
Tutbury, mkt. f. on R. Dove, Staffs, Eng.; p. 2,484.
Here are the ruins of a pre-Norman castle, wherein Mary Queen of Scots was twice imprisoned.
Tutlcorin, pp. Madras, Tinnevelli dist, India; extensive tr. with Ceylon, conch shell fishy;

p. 28,114. Tuttlingen,

extensive tr. with Ceylon, conch shell fishy.; p. 83.114.

Tuttlingen, £ on R. Danube, nr. Schaffhausen, Wurtenberg; nined castle of Honberg; textile industries, fruit tr.; p. 17,217.

Tuxedo, £, in Orange co., New York, U.S.A., Tuxedo L.; p. 2,200.

Tux, f. in Notts, 11½ m. N. of Newark, p. 1,200.

Tuy, £. on R. Minho, Pontevreda prov., Spain; cathedl., soap factories, tr. in sgr. prod.; p. 11,622.

Tux-Gol, sapt factories, tr. in sgr. prod.; p. 11,622.

Tux-Gol, sapt factories, tr. in sgr. prod.; p. 11,622.

Tux-Gol, sapt factories, tr. in sgr. prod.; p. 11,623.

Tux-Gol, or Tux-Ghieul, salt £. (45 m. by 16 m.)

Tver, govt. Cent. Russ., N. of Moscow; area 25,235.

sq. m.; agr., stock-rearing, and many manuf; p. 1,230,160; cap. Tver, £ on R. Volga; cotton mills, corn tr.; p. 60,485.

Twat, or Tuxt, an easts in the Western Sahara, roo m. SW. of Trapoli; Aln Salah, principal t.

Tweed, R., S.E. Scotl; rises in Peeblessh, and reaches sea (39 m.) at Berwick, dividg. Berwicksh. from the Hng. co. Northumberland; Lamous for its salmon fisheries; and is renowned in literature and history, its course being through some of the most romantic scenery in Britain.

Tweeddale, old name for co. Peebles, Scotl.

Tweeddy, p. 4,926.

Twenty-four Parganas, The, dist. Bengal, Brit.

Tweedmouth, 59t. Normamberana, Eng., at man, or R. Tweed; p. 4,926.
Twenty-four Parganas, The, dist. Bengal, Brit. India; area 2,ro8 sq. m.; p. 2,000,000; admin. hdgr. Alipur, a S. sub. of Calcuta city.
Twerton, par. nr. Bath, Somerset, Eng.; brick and woollen cloth manuf. p. 17,014.
Twickenham, par. and urban residtl. dist. N. bank of B. Thomes, Middlesex, Eng., 11 m. S.W. of

of R. Thames, Middlesex, Eng., 11 m. S.W. of

Twickenham, *er.* and urban "esidd. *die.* N. bank of R. Thames, Middlescx, Eng., rt m. S.W. of London c. ; p. 29,324.

Two Rivers, c. Wisconsin, U.S.A.; nr. Twin River Point on shore of L. Miclingan, p. 4,816.

Tyldealey, mfg. c. nr. Bolton, S.W. Lancs, Eng., Tyler, c. Smith co., Texas, U.S.A.; mfg. centre in cotton-growg, dist., p. 9,018.

Tyndrum, vil. in Perthshire, 56; m. E. by N. of Oban. Tyne, R. Durham and Northunberld. Eng.; formed by junctn. of N. and S. Tyne at Herham, 30 m. from sea at Tynemouth and S. Shields; total length 80 m., forms a continuous harbr. (with shipblidg, and other works) from Newcastle to Tynemouth.

Tynemouth, bor. Northumberland, Eng., at mth. of R. Tyne, on its N. bank, includg, in its area the townships of Tynemouth, North Shields, Cullercoats, Chirton, and Freston; favourite wat. pl., with old priory and castle, p. (of parly, bor.) 54,822.

Tyre, anc. c. of Phomicia, site 47 m. S.W. Beyrout. Tyree, isi. of the Inner Hebrides, Angylish., Scotl., p. 3,818. It has many small lakes of fresh water, and contains numerous Scandmarian forts along its Tyrona, indic so. Ulster, Ired.; area, 1250 Sq. nn., agr. and dairying, p. (decreasing) 142,437; cap. Ornagh (y.v.); also bor. Blair co., Fenn., U.S.A., on Litly and Corsica, Sardinia, and Sicily. (Galicia, p. 8,012.

Tyentenian Sea, part of Medicranean, betwn. Italy and Corsica, Sardinia, and Sicily. (Galicia, p. 8,012.

Tynnagintonian, in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont

p. 5,448.

Uanapu, or Anapu, R. Brazil, trib. (400 m.) of R. Para. Ubeda, L. on R. Guadalquivir, prov. Jaen, Spain; in vineyd. and fruit-grow. dist.; old walls; linen and esparto grass industries; p. 22,220.

Ubsa Nor, L. in Khaikas country, Mongolia, 75 m. by

Ucayale, R. of Peru, a head-strm. of R. Amazon, over 1,400 m. long, navigable for 1,000 m.
Uccle, vil. Belgium, in S. Brabant, nr. Brussels;

industri.; p. 13,105. Uckfield, mkt. 1. Sussex, Eng., on R. Ouse, p. 3,344. Udaipur, or Oodeypore (otherwise Mewar), nat. st. Rajputana Agency, India; area 12,861 sq. m.; p. (decling.) 1,020,000. Cap. U., c. on bank of large L. amid wooded hills, 2,409 ft. above sea-level; marble

àmid wooded hills, 2,400 ft. above sea-level; marbie pal of the Maharans; temple of Siva; p. 4,500.
Uddevalla, 2,54. S. Sweden, on fjord connected with L. Weier; butter factories, porcelain was; p. 70,546.
Uddingston, t. on R. Clyde, co. Lanark, Scoll., 7\(\frac{1}{2}\) m. E.S. E. of Glasgow; collieries, Jain factory; p. 8,568.
Udine, t. betwn. Alps and G. of Venice, Italy; old castle (now barracks); silk, velvet, and cotton ind.; p. 48,702.

[Cambodia; p. 12,600. p. 48,102. [Cambodia; p. 12,640. Udong, c. of the Malay Penin.; formerly cap. Uelzen, old t. on R. Ilmenau, Hanover; flax, tobacco,

and ironwks.; p. 8,847.

Ufa. Russn. govt. of the W. Urals; area 47,112 50, m.; agr., stock-faising, ironwks.; p. 2,000,000 Cap. U., at confl of R. U. (flows 400 m. from the Ural Mtns.) with R. Belaia; iron and copper foundries and mchy. works; p. 97,000.

Ufalel, Upper and Lower; ironwks. in govt. Perm.,
Russ., nr. Ekatermburg; p. (joint) 14,000.

Kuss., nr. Exacerniong; p. 100nc, 14,000. Ufficuline, var. of Devon, on the Culin, p. 1,800. Uffington, var. Berks, Eng., nr. Faringtion; contains the figure of the "White Horse" (314 ft. long) cut in the chalk downs, traditionally ascribed to Afred the

Oreat, Uganda, Brit. protectorate E. Centl. Africa; (approx.) area (includg. Usoga and Unyora) 150,000 sq. m.; p. (abt.) 4,000,000; traversed by rly., with terminus at Kavirondo B., on the Victoria Nyanza; cap. Kampala; admin. Adors. Entebbe; exports: skins, livory, chilles, cotton, and coffee. Uglich, f. on R. Volga, Yaroslav govt., Russ.; pal. of Prince Demetrius (slam in 1591); cathedl.; ham and sausare export: D. 13, 564.

Prince Demetrius (slam in 1591); cathedl.; ham and sausage export; p. 13,564.
Uhricksville, l. on R. Stillwater, Tuscarawas co., Ohio, U.S.A.; p. 4,418.
Uinta, a min. range of Utah, U.S.A.; its highest points are Emmons (13,694 ft.), Gilbert Peak (13,689 ft.), and Wilson (13,306 ft.), Gilbert Peak (13,689 ft.), and Wilson (13,306 ft.).
Uist, N. (17 m. long, 3 m. to 13 m. wide) and S. (2m. by 7g m.), its. of the Outer Hebrides, co. Inverness, Scotl.; Lochmaddy in the N. isl. is a par. with large tr. with the croffers, total n. os.

Scotl.; Lochmaddy in the N. isl. is a par. with large tr. with the crofters; total p. 9,500. Ultenhage, d. nr. Port Eluzabeth, Cape Col., Brk. S. Afr.; thrug. centre agr. dist.; p. 6,446. Ujain, l. on R. Spira, nat. st. Gwalior, Centl. India; cap. Malwa in Hındu and Mahommedan days, and famous as the res. of Vikramaditiya; centre of opium tr.; p. 36,124. Ujili, vil. in sm. terr. same name (area 200 aq. m.) on E. shore L. Tanganyika, Germ. E. Afr., where Stanley found Livingstone, 1871. Ujiain, l. Gwallor state, Central India; a sacred c. and formerly the cap. of Malwa, p. 2,000. Upidék, l. on R. Danube, Bács-Bodrog co., Hungary; opp. Petervárad; tr. m frut, wine, vegetables, corn. p. 30,624. [40 m. long.

opp. Petervárad; tr. m frut, wme, vegetables, čori, p. 30,824. [40 m. long. Ukerewe, tst. in Victoria Nyanza L., Centl. Afr.; U-Kiang, R. of Se-Chuen prov., China, trib. (soo m.) of Vang-tse-Kiang. Ukraine, or Little Russia; comprises govts. Poltava, Kiev, Kharkov, and Chernigov (q.v.). Uleaborg, N., govt. grand duchy Finland; area 63,970 sq. m., partly forest and partly agr.; p. 295,000. Cap. U., spi. on G. of Bothnia: exports ptch. timber, hides, butter; p. z6,000. Ulea Lake (40 m. long) lies S.E. of U. S.E. of U. t.

Ullasutal, tin N. Mongolia, and cap. of the country, p. (mostly Chinese) about 5,000.
Ulladulla, spt. t. N.S.W., 159 m. S. of Sydney; p. Ullapool, wt. on Loch Broome, Ross shire, 44 m. N.W.

of Dingwall.

Ullswater, L. (8 m. long) on border Cumberland and Westmorland, Eng.; outlet by R. Eamont to the Eden.

Ulm, fort. 4. on R. Danube (58 m. S.E. of Stuttgart), Würtemberg; impt. rlwy. and strategic centre; cathedl. with lofty tower (528 ft.); clocks, line, cutlery, confecty; p. 46,000. [p. (dist.) 3,714. Ulmarra, 4. on Clarence R. New S.W., nr. Grafton, Ulster, N. prov., Ireland, N. of Connaught and Leinster; area 8,569 sq. m., p. 1,750,000; colonised by Scots and English in early part of ryth cent. In 190x the population of Ulster comprised 1,580,806, of whom 690,200 were Roman Catholics, and 798,809 were Protestants, 245,526 of these being Fresbyterians, and 360,373 Protestant Episcopalians. Comprises cos. Londonderry, Down, Donegal, Monaghan, Tyrone, Fernanagh, Cavan, Antrini, and Armagh, all of winch see sep.

Tyrone, Fernanagh, Cavan, Antrhu, and Armagh, all of which see seb.
Ulundi, *Fraed in Zululand, Brit. S. Africa, where Cetewayo was defeated by Lord Chelmsford in 1890 Ulva, *ts.' of the Inner Hebrides, Argyll., Scotl., off W. coast of Mull: 5 in. long; p. 53.
Ulverston, indust.! t. N. W. Lancash., nr. Morecambe B.: paper mills, hardware manut.; consid. caual traf.: p. 9529.
Umann, mftg. t. govt. Kiev, Russ., p. 17,128.
Umbahog L. (9 in. long), on boundary between Maine and New Hampshire, U.S.A., outlet by Umballa, India. (See Amballa.) [Androscoggin R. Umbria, compartimento Italy, between Tuscany and the Marches, and Rome and the Abruzzi; comprising the prov of Perugia (p. v.), Romanized after defeat in the Samnier wars before the commencement of the Christian Era; and part of the States of ment of the Christian Era; and part of the States of the ch, before 1800, when it passed to the kingdom

of Italy.

J. Mea, R. of Sweden, flows 250 m. to the G. of Bothnia; also t. on R. Uwea nv. its mth.; timber [local tr.

tr.; p. 4,018. [local tr. Umrer, t. in Nagpur dist., India; p. 25,125. good Umreth, t. Kaira dist., Bourbay, India; commercial

centre; p. 18,884.
Unalaska, largest of Fox Isls, in the Aleutian Chain, Alaska, U.S.A.; mtnous, and treeless, but with luxuriant herbage; good harbours; has several settlement; the vill. of Unalaska is the princ. port

settlements; the vill. of Unalaska is the princ. port of Bering S., p. 450.

Unao, ds.t. Lucknow div. Oudh, Brit, India; area 1.778 sq. tn.; N. of R. Ganges; grows corn, cotton, sugar-cane, and opium; p. 1,000,000. Cap. U., c., in., Cawnpore, p. 16,087.

Ungawa B., arm of Hudson Strait, projecting into Labrador. Has large forests in the S., and in many parts minerals are abundant, iron ore being the most prominent. It is a wild and remote territory, chiefly inhabited by Indians, and is expected to show rich resources when properly opened up.

Unghwar, L. 195 in. E. N. E. Pesth, Hungary; industri. p. 12,818.

resources when properly opened up., Unghvar, t. 195 In E. N. E. Pesth, Hungary; industrl.; p. 12,818. Union, t. adjoining Hoboken West, New York, U. S.A., Union Springs, t. Alabama, U. S.A., cap. Bullock co., p. 4819. [glass works, iron foundres-p. 1-7,95-Uniontown, bor. Penn., U. S.A., cap. Fayette co.; United Kingdom. (See Britain.) United States of America, federal Republic largest in the world) of N. America, embracing the Central portion from Atlantic to Pacific between Canada and the great L. S. N. Io the G. of Micsico and Rio Grande del Norte, S. Area (including Alaska, purchased from Russia in 1867, and Hawaii) 3,022,033 sq. m.; p. 102,000,000; cap. Washington; commercial metropolls, New York, both of which see, as also the separate States, alphabetically. The Spanish American War of 1868 resulted in the acquisition by the U.S.A. of the Philippines, Porto Rico, and Guahaii. The U.S.A. are very rich in every kind of minerals, produce much timber, corn, Irult, and vegetables, and stand high in the world in stock-rabing and manufs.
United States of Colombia, [See Colombia,] Unie, 8, 18 Baroda st., Bonbay, India, nr Ahmadabad, yd. tr., p. 11,168. [Industrla, p. 6,146.]

Unja, f. in Baroda St., Boilbay, India, ir Ahmadabad, gd. tr., p. 11,168.
Unley, S. ssab. Adelaide, S. Australia, residenti. and Unsa, f. ir. Dortmund, Westphalia, Pruss., iron works, salt and coal mines, brickmigr., p. 16,425.
Unst. i.1. (most N.) Shetland grp., length 129 m.
Unstrut, R. Prussian Saxony, trib, (110 m.) of R. Saale.

Unter See, w. portn. L. of Constance (q.v.) 13 m. long.

long.
Unterwalden, old cant. Switzld., now sub. dividd. into
Obwalden and Midwalden (total area O., 183 sq. m.,
N. 12 sq. m., p. (0.) 15, sg. (N.) 13,648. Bounded by
Lucerne and the lakes of Uri, and Bern, the canton
is largely afforested, and the chf. ts. are Samen
and Stanz, mtn. pastures, and dairying.
Unyamwezi, country of E. Africa, E. of Tanganyika
L., chf. t., Unyanyembe, 400 m. from cst., p. 5,500.
Unyora. (See Ugande.)
Upland, bor. Penn., U.S.A., nr. the Delaware R.,

P. 4.563 Upper Mill, industri. twnship. W. R. Yorks., nr. Oldham, Eng., p. 2,264. Upper Sind, Frontler dist. Sind Prov., Bombay, India,

area 2,549 sq. m., p. 256,418. Admin. hdqrs. Jacobabad (2.v.)

[field, p. 2,818. Upperthong,industrl., \$er. W. R. Yorks., nr. Hudders-Upholiand, a L. in Lancashire, 4 m. W. of Wigan,

p. 4,800. Uppingham, mkt. 4. co., Rutland, Eng., nr. Oakham, iamous schl., founded in 1836, by Archdeacon Robert Johnson (1840-1868), it was materially developed and improved by Edward Thring, who was headmaster

rfrom 1853 to 1807; D. 6,732.

Uppsalla, Icn E. Sweden, N. of Lake Malar, area 2,053 sq. m., p. 725,000. Cap. U., t. on R. Salla, 45; m. from Stockholm, university and cathedl, nr. is the fine château of Skokhoster and the Ultana 2gr. inst., p.

26,412. [Fing., p. 2,511, Upton-on-Severn, mkt. / nr. Malvern, Worcestersh. Ural Mtns., gt. system of Russ., separating Asia from Europe, 2,050 m long, highest summit, 5,286 ft. The Ural R. flows 1,000 m. S.W, and S. in Orenburg govt. to the Caspian.

To the Caspian.

Uralsk, prov. Asiatic Russ., in genl. govt. of the Steppes, S of the Ural R., area 141,745 sq. m., p. 775,000, monly nonaid Cossacks and cattle-rearies. Cap. Uralsk, t on Ural R., great grain trading, and cattle mart centre, p 40,000.

Uran, & in Thana dist., Bombay, India, 8 m. S.E.

Bombay, c., p. 10,864. Ura-tyube, or Ora-tepe, c. in prov. Samarkand, Russ, Turkestan, citadel, tr. in camel-wool cith. and horses, . 22.116.

p. 22.116.
Urbana, c. on Embarras R., Illinois, U.S.A., seat of st. university, p. 6.008; also c. of Champaign co., Oho, U.S.A., manuf., p. 6.045.
Urbino, t. in the Marches, Italy, amongst E. spurs of the Apennines, cathedl., grand-ducal palace, university, manuf. majolica and silk, p. 5.465.
Ure, R. N. R. Yorks, Eng., flows E. and S.E. to the Swale (sp. m.) to form the Ouse
Urfa, fort. t. nr. Dlabekr, Turkey, gd. local tr., p. Urfahr, t. on R. Danbek, Lower Austria, connected by iron bridge with Linz, corn tr., p. 15, 104.
Urgel, a t. at the foot of the Pyrenees, in the Cale-

Urfahr, t. on R. Danube, Lower Austria, connected by iron bridge with Linz, corn tr., p. 15,794. Urgel, a t. at the foot of the Pyrenees, m the Caledonian prov. of Lerical, p. 2,946. Url, cant. Switzld., S. of L. of Lucerne, area 417. Sq. m., forest and mtn., traversed by St. Gothard riwy, and R. Reuss, scene of many conflicts 12th to 18th cent., p. 20,118, cap. Altdorf or Altorf (12.10). Urr Water, a stream in Kircudbrightshire, having a a course of 27 m. S. by E. to the Solway Furth. Urubamba, t. on R. U., nr. Cuzco, Peru, p. 4,814. Uruguay, R. S. America, tises in S. Brazil, and flows betwn. Argentina and Brazil and Uruguay (850 m.) to the Rio Plata; also U. (or Banda Oriental del U.), repub. S. America, betwn. Brazil, the Argentine, and the Atlantic, area 72,153 eq. m., p. (abt). K. 100,000, cattle and sheep rearing, also fruit growing, cap. Montevideo (2.2). Uruguay is divided into 19 departments. The president is elected for 4 years. Over 1,000 miles of railway have been opened in the country, and there are 4,000 miles of religraph lines. Urumiyah, Lake of, nr. Tabriz, N. Perisa (85 m. by 20 m.), salt and shallow; also t. nr. the l., fort, in Azerbaigin prov., reputed birthyl. of Zoroaster, p. 25,000.

Urumtsi, the capital c. of Chinese Zungaria, domina-ting the main route into Eastern Turkestan from Mon-golia, situated at the N. base of the Tian-shau Mina. Urup, on the Kurile isis., 50 m. long, 12 m. wide.

Uryupina, Cossack will, on R. Khoper, in Don Cossacks prov., Russia, gt. fair for cattle and hides, p. 20.249. U. D. 10, 249.
U. D. R. Russ., flows (200 m.) from the Urals to the Usagara, a German possession in E. Africa, between the coast and Tangaryika.
Usedom, 141. Pomerania, Pruss., nr. Rügen, 30 m. long.

14 m. wide.
Ushak, £ in Brusa vilayet, Asia Minor, connected by rail with Smyrna and Koma, noted for pile carpet

Ushak, f. in Brisa vilayet, Asia Minor, connected by rail with Smyrna and Koma, noted for pile carpet weaving, p. 12,000.
Ushant, st. off French cst. nr. Brest (4] m. long), coutains vil. St. Michel, p. 25,000. It was off Ushant that Lord Howe gained his great naval victory on "the glorious first of June," 1794.
Ushaw, 4 m. W.N.W., the seat of St. Cuthbert's Rom. Cath. college.
Ush R. S. Wales and Monmouthsh, Eng., flows (57 m.) to Bristol Chan.; also t. on R. U. (one of the Monmouth Boroughs), p. 14,95.
Usk R. S. Wales and Monmouthsh, Eng., flows (57 m.) to Bristol Chan.; also t. on R. U. (one of the Monmouth Boroughs), p. 14,95.
Usk R. D. Turkey (conprise all N. Albanis), on R. Vardar, the anc. Scopl, silk prodn., opium, fruits, corn, etc., p. 41,172.
Usoga.—(See Uganda.)
Ust-Byelokalitvenskaya, vil. in prov. Don Cossacks, Russ., on the Northn, Donets R.; stone quarries, corn and cattle tr. p. 19,456.
Ust-Kamenogorsk, t. on R. Irtysh, Semipalatinsk prov. Russn. prov. of the Don Cossacks, cattle and grainett., p. 14,172.
Ust-Khoperskaya, t. at juctu. of R. 's Don and Khoper, in Russn. prov. of the Don Cossacks, cattle and grainett., p. 14, 172.

Usti-Khoperakaya, f. at jnctn. of R.'s Don and Khoper, in Russin. prov. of the Don Cossacks, cattle and grainet... p. 14,523.

9st. Medvyeditsa, f. nr. Tsaritsyn, on R. Medvyeditsa, in Russin, prov. Don Cossacks; great cattle fair, military sch., p. 17,143.

Ustyug Veility, f. in Russin, govt. Vologda, on Sukhora R., great fair, fancy box and jewellery, and lock manuf.; also silver ware, p. 12,486.

Usumasinat, R. Mexico and Guatemala trib. (400 m.) of R. Tabasco.

Usuri, R. Manchuria, flows (340 m.) of Amur.

Usworth, tunnih, Durham, Eng., sub. to Gateshead; mdustfi., p. 5,788.

Utah, Westin. st., U.S. A.; area 83,150 sq. m., p. 374,000 (two-thirds Mormons); cap. Sait Lake City (37.); Utah L., 23 m. long, and 4,400 ft. above sea-level, discharges by the K. J. Ordon to the Great Sait, L. (9,7.). Utah was part of the territory obtained from Mexico by the U.S. A. in 1888, and from 1850 was occupied by the Mormons, but its area was reduced to its present proportions in 1868. The privilege of State recognition was not granted until 1894, when polygamy was renounced and Mormon supremacy ended. ended.

Utakamand, or Ootacamund, f. in Madras, Brit. India: admin. liqrs. Nilgris dist., sunmer cap. Madras govt, on a plateau 7,230 ft. above seo-level, mtn. surrounded by large artifici. L. and beautiful

mtn. surrounded by large artifici. L. and beautiful gdns., p. 15,084.
Utica. c. on Mohawk R., Oneida, co., New York, U.S.A.; clothg, and other manuf., p. 74,419.
Utiel. c. nr. the Rio Magro, Valencia prov., Spain, N.W. of Requena; brandles, wines, etc., p. 11,882.
Utrecht, prov. Holland, betwn. Gelderland and N. and S. Holland; area 52 sg. m., fertile agr. and stockraising dist. S. of the Zuyder Zee, p. 26,064; cap. U., c. on the Old Rhine; university, cathedi, chemical, and cigar factories, p. 124,120; also name of a t. in the Transvaal Col., Brit. S. Afr., cap. of U. dist.

dist.

dist.

Utrera, f. in Seville prov., Spain; industri., p. 15,824.

Utrera, f. on R. Hooghil, H. dist., Bengal, Brit.
India; famous library, p. 6,836.

Uttoeseter, mtg. f. nr. R. Dove, Staffs, Eng., p. 5,739.

Uxbridge, mkr. f. Middlesex, Eng., on R. Coine, 18 m.
N. of London, p. 10,740.

Uzmal, valued anc. c. Yucatan, Mexico, 70 m. So Merida; interesting temples, sculptures, etg.

Uz, a lessé (in Biblical geography) E. of Falestine; placed by some scholars in the modern Hauran, Syria (anc. Auranitis of Bashan); the home of the patriarch Job.

Usen (Gr. and Little), R.'s ef Russ., flewing s90 m. to

Uses, £ dep. Gárd, France, on R. Auzon, nr. Nimes; cathedl., campanile, anc. castle, medizval palace, and clock tower, silk manuf., wine and oil tr., p. 4,654. Uzkol, Cape, promottery on Ob Bay, N. Siberia.

Vaal, or Ky Gariep, R. Brit. S. Afr.; rises in Quathlamba Mtns., and flows (560 m.) betwn, the Transvaal and Orange R. Cols. to join the Orange nr. Kimberley.

Valgats, Russn. 6tl. in the Arctic Oc., betwn, the mainld. and Nova Zembla (70 m. by 33 m.); included in govt. Archangel, and visited in summer by hunters.

by hunters.

Valais, cast. Switzerld., comprise up

R. Rhône; area, 3,oz' sq. u.; surrou

mtn.; sparsely oppulated [120,000]; cap. Scion (g.v.),

valdagno, b. n. Vicerae, Italy; undustri; p. (com.)

7,864. [R. Volga; lughest summit, 1,00 ft.

Valdad Hills, gov. Novgorod, Rus.; watershed of

Valdepenas, t. on R. Jabalon, nr. Ciudad Real, Spain,

in mining regn.; p. 5,64.

Val de Travers, a valley rich in asphalte mines in the

canton of Neuchatte; Switzerland.

Valdivia, prov. S. Chill; area 10,715 q. m.; p. 70,813;

cap. V., t. on Calle-calle R., nr. the sea (port Corral);

brewg, and tanning, p. 10,118.

Valdosta, c. in Lownels co., Georgia, U.S.A., nr.

Florida border; rly, centre p. 6,035 (half negroes).

Valeggio, d. on R. Minclo, nr. Verona, Italy; fortid.

bridge, with causeway on Roman foundatins, 1,80e

ft. long; p. 5,564.

bridge, with causeway on Roman foundatus., 1,80e ft. long; p. 5.664.
Valencay, t. on R. Nahon, dep. Indre, France; castle prison of Ferdinand VII. of Spain; p. 3,846.
Valence, t. on the Rhône, dep. Drône, France; metal founding, hosiery nanut, tinned food prodn.; p. 26,454; tineyd. dist.
Valencia, \$\$\text{prov.}\$ Spain, on Mediterranean; area 4,32 sq. m; agr. vineyds., olive, fig. and orange growg; live stock rearg; i. suk, tapestry, and carpet manut; p. 81c,950; cap. V., t. on R. Guadakvars; an iron the Mediterranean; many manuf., exports wine, fruits, corn, etc.; university, museum, interestg. cathed; p. 220,300; also c in Venezuela, cap. Carabobo, nr. 1. of V. (30 m. long), W. of Caracas; gd. tr; p. 42,200.

Valencia de Alcantara, t. on R. Avid, prov. Caceres, Spam, nr. the Portuguese froutier; garrison, dismantled castle; Roman ruins; agr. and antimony ming. dist. ; p. 10,012,

Valenciennes, fortid. t on R. Escaut, dep. Nord, France; famous for lace infig.; metallurgical indus-

trics, starch, chemicals, etc.; p. 32,506. [p. 2,250. Valencia Isl., S.W. co. Kerry, Iield. (6 m. by 2 m.); Valenza, a f. of N. Italy, 9 m. N. of Alessandria, on the

Valence, 12. Or Valletta), 51t. f. cap. of Malta, on N.E. cst. of isl.; strongly fortfd., fine harbr.; many relics of the occupm. of the Knights of Malta; p. (exclusive of Brit. troops) 24,50c.
Valguarnera, f. of Sicily, 16 m. E. of Caltanissetta,

p. 15,676.

Valladolid, \$rov. Centl. Spain; area 2,043 sq. m.; agr., vineyds, live-stock, inftg.; p. 286,715; cap. V., t. on R. Pisuerga; seat of army corps, university, cathedl.; thrivg, industries and tr.; p. 74,619; also c. nr. Merida, Yucatan; p. 5,247.

Vallecas, t. nr. Madrid, Spain; in flat fertile winegrowg. dist., through which flows the Manzanares R.; p. 306,65.

R.: p. 10,645.

Vallejo, c. at the outlet of the beautiful Napa valley Solano co., California, U.S.A.; exports fruit and

Solano Co. California, U.S.A.; exports trutt and corn; p. 8,716.

Valleyfield, infig. L. at ft. of L. St. Francis, Beau-harnois co. Quebec, Can.; p. 12,675.

Valls, infig. L. in Spain, 12 m. N. of Tarragona, p. 13,706.

Valmy, vsl. in the dep. of Marne, France, so m. N.E. of Chalous.

Valparaise prev. Chili; area 1,637 sq. m., p. 286,050. Cap. V., c. and spt., the most impt. port on the Pacific est. of S. America, and the greatest mfrg., commerci. and industri. centre of the Republic of C.,

p. 148,860; also name of a ber. Porter co., Indiana, U.S.A., clock manuf. and mchy. wks., p. 6,846. Valton, wti. in Skye, about 19½ m from Portree, p. 364. Van, fort. c. on E. side of L. Van (salt, 75 m. long). Turklah Armenia, S. of Erzerous; imilitary stn.; massacres 1895 and 1896, p. 30,000. Cap. vilayet V., on Perslan border; ares 13,440 o. m., mtnous, and pastoral, sulphur springs, petrol. wells, p. nearly 300,000.

on Persian border; area 15,40 sq. m., minous, and pastoral, sulphur springs, petrol. wells, p. nearly yancouver, tsl. of W. cet. Brit. Columbia (978 m. long, 50 m. to 65 m. wide), p. 41, 50. Is separated from the minital by Queen Charlette Sound. Johnstone Strait, and the Strait of Georgia. The shores are to a large extent rocky, but are refleved by numerous fine harbours. There are large forests yielding an abundance of timber, but only a small proportion of the land—perhaps a tenth—is available for agricultural purposes. Fruit culture, however, is profitably carried on in many sections of the island and in this direction the developments have been very considerable in recent years. The fisheries of Vancouver Isl. are also important. Gold, silver, copper, and iron are found in paying quantities, and there are excellent coaliselds. Cap. Victoria, at S. end of sl, which is also cap of colony; also name of a spt. in Brit. Columbia, terminus C. F. Ry. on Burrard Inlet, 130,114; also c. Clarke co., Washington, U.S.A. nr. Fortland; forest regn. and tr. centre for Hidson B., with military post of Fort Vancouver, p. 4.42. Vannes, orl. dep. Morbihan, France, on S. est. Brittany; shiphdg., forowks., breweres, p. 25,114. Vannes, or Vancouver, y. 4.40. Vannes, or Vancouver, y. 4.70. Van Wert, cap. of Van Overt co., Ohlo, 27 m. W.N.W. of Lina, p. 6,551. Var, R. France, dep. Alpes-Maritimes, flows 6 m. S. to the sea; also dep. S. France, on the Mediterranean; area 2,233 ag., m., pasture, vineyds., sericulture, y. (increage.) 330,044. Cap. Dragugman, Toulouse largest c. Varallo, 6, in Italy, 35 m. N.W. of Novaro, p. 3,610.

(increasg.) 330,004. Cap. Dragugnam, 100000se largest c. Varallo, t. in Italy, 35 m. N.W. of Novaro, p. 3,610. Varanger Flord, an inlet of the Arctic Ocean into Finmark, Norway's most northerly prov. Varese, t. nr. Milan, N. Italy; beautifully situated Lombard autumn rest., silk-spinning, gd. wme, p.

Varinas, 8 t. of Venezuela, 100 m. S. of L. Maracaybo,

p. 7.100. Varna, fort. f. Bulgaria, on Black S.; chf. spt. of the

Varia, fort. I. Duigaria, on Black S.; cin. spi. of the country, with gt. grain tr., p. 26,886.

Vazzin, vii. in Pomerania, sem. S.E. of Koslin. Prince Bismarck's country seat was near this place, p. 1,200.

Vasa, prov. grand duchy of Finland, Russ.; area 1,684 sq. m., p. 460,244. Cap. V., t. and port on G. of Bothnia; oats, butter and cattle export, p. 14,118; officially called Nikolaistad since the gt. fire and ro-

officially called Nikolaistad since the gt. fire and ro-building of the t. in 1892.
Vásárhely, or Hodmezo Vasarhely, c. on L. Hodos, nr. Szegodin, Hungary; wine and tobacco manuf., p. 54,125.
[Hungary, nr. Veszprin, p. 4,978. Vásárhely, or Somlyo Vasarhely, c. on R. Torna, Vasilkov, c. findustri.) govt. Klev, Russ., p. 18,852.
Vastila-gundu, c. Madura dist., Madras, India, p.

Vacuus, day. S.E. France, area 1,381 sq. m.; agr., vines, sericulture; p. 23,000 (decling.); cap. Avignon (g.v.). At the village of Vaucluse lived Petrarch, and here it was that he wrote many of his poems to Laum, who was a Frenchwoman living at Avignon. In this sequestered spot the post devoted his genius to the immortal task of celebrating his passion in

to the immortal task of celebrating his passion in worthy verse.

Vand, or Pays de Vand, cant. W. Switzld, N. of L. of Geneva, area 1,247 q. m.; timber forests and vineyards; p. 300,000; cap. Lausanne (q.v.). The canton extends from the Jura to the Bernsee Oberiand. Its population is mainly Protestant, and wine is its principal passiuct.

Vanishall, 1998 strl. s. J. S. W. London, nr. Thames; rly, centre \$\frac{1}{2}\text{N}, \text{London, nr. Thames; rly, centre \$\frac{1}{2}\text{N}, \text{London first gardens, where concerts and brilliant assemblies took place, and rank and fashion largely natronised the enter-

tainments. Here the leading vocalists of the time made their appearance, and the Mar, balls, fireworks, balloon ascents, and other attractions drew large crowds.

crowds.

Yeaht, arms of R. Rhine, prov. Utrecht, Holland, flows from the Old Rhine (18 m.) to the Zuyder Zee, Vegila, 6tf. in the Adriatic, belonging to Austria, S.E. of Trieste, area 25 sq. m., p. 25,000.

Trieste, area 25 sq. m., p. 25,000.

It was one of the 12 criter of the Etruscan confideracy, and was situated 12 m. N.W. of Rome. After many desperate conflicts with Rome, Veil was ultimately captured, 356 B.C., by Camillas, but and until it had withstood a slege of two years.

Veja de la Frontera, f. on R. Barbate, Cadis prov. Spain; beautiful agr. and stock-rearg. country: p. 125,105.

Spain; beautihi agr. and stock-rearg. country: p. ra.nos. Veile, 19t. Jutland, Denmark; gd. harbr, and tr.; p. Velbert, t. nr. Barmen, govt. Düsseldorf, Prusa; industri.; p. xr.09t. Veilea, a summer lake resort in the prov. of Carniola, Austria, ge m. N.W. of Laibach; celebrated for its sun-baths; p. 540. Veiles, t. nr. Turija, Colombia; gd. tr.; p. 9.485. Veiles Malaga, c. in the prov. of Malaga, Spain, famous for its abundant crops of raisins, sugar, and olive oil.

olive oil

olive oil.

Veiez Rubio, £ in the prov. of Almeria, Spain, in the
Sierra Maria Mins., commanding from its eminence
an immense view of the country around.

Veilko Mikhailovka, £ in govt. Kursk, Rusa.; grain
and hide tr.; p. 21,728.

Veilett, £ on R. Düna, govt. Vitebsk, Rusa., p. 18,110.

Veiletti, £ at foot of the Alban hills, nr. Rome, Italy;
good wine; p. 17,368. At this spot Garibadig gained
a victory over the King of Naples, May 19, 1849.

There is a cathetral of some historic acts here,
dedicated to St. Clement, and dating from the ryth
century.

veentury.

Ventury (*) on R. Palar, N. Arcot div. Madras, Brit.

India; military cantonment, perfume distillery; p.
44,305. There was a serious outbreak in 1806 by
Sepoy soldiers, who mutinled, and put many European officers and residents to death.

pean officers and residents to death. Venaissin, an ant. French co. betwn. the Durance and the Rhône, now incorporated in Vancluse. Vendée, or La Vendee, dep. W. France, on B. of Biscay, area 3,602 st, m.; agr., pasturage, vineyds., fishery, sea-salt, and some manufs.; p. (increasy, 441,002; cap. La Roche-sur-Yon. The Vendeans, it will be remembered, offered a strong resistance to the French Revolutionists of vy95. Also V., a R. in dep same name, flows (46 m.) to Sevre-Niortaise. Vendôme, 4 on R. Loire, dep. Loire-et-Cher, France, nr. Tours; industri.; p. 9,848. Once gave the name to a countship and duchy, the former dating from 1575, the latter from 1595. Vendôme has the ruins of a famous Renaissance abbey, a church of the Trinky

1575, the latter from 1595. Vendome has the ruins of a famous Renaissance abbey, a church of the Trinity going back to the 12th century, and some remains of an 11th century castle belonging to the Dukes of Vendôme.

vencome.

Vener, or Wener, the largest of the Swedish lakes, 2,150 sq. m. in extent, discharging itself on the Sathrough the Gota.

2,150 Sq. m. in extent, discharging itself on the St. through the Gota.

Venetia, combarimento N.E. Italy, betwin the Alps and the Adriatic, area 9,476 Sq. m. p. 9,527,000; embraces provs. Vicenza, Veroua, Venice, Udine, Treviso, Padu, Belluno, and Rovigo (all of which see sep. ); cap. Venice.

Veney, i. in govi. Tula, Russ., p. 5812.

Venezuela, Repub. S. America, on Caribbean cst. adjoing. Brazil, area 994,000 Sq. m. gar, coffee, cocoa, and sugar-growing, stock-raising ip. 8,500,000; cap. Caracas.(q.w.). Venezuela is very mountainous, and includes vast extent through the country from the south of Lake Maracaybo to the Cordillera de Merida (15,500 ft.). There are eight separate river systems, the chief of which is the Orinoca, Formerly there were several active volcances in the country, but these long since ceased to be a menace. Earthquakes are not infrequent, and occasionally cause great disaster. The population is moetly half-breeds, pure negroes or whites being comparatively few. In later years the mineral resources

of Venezuela, which are exceedingly rich, have attracted much European capital and labour, and the commerce of the country has become very active and important.

and important.

Venguria, 34. Ratnagiri dist., Bombay, India,
p. 19,142, ceded to Britain in 1812.

Vanica, maritime c. Italy, at head of the Adriatic,
situated on 80 isls. In the lagoons; splendid arch, rich
in art treasures and historic associations; great comvanica, martimo c. Italy, at head of the Adriatic, situated on 80 isls. In the lagoons; splendid arch, rich in art treasures and historic associations; great commerci, and industri, activity; p. (exclusive of garrison) 175,000. In shipbuilding to-day Venice ranks next after Genoa among Italian cities. Austria became possessed of Venice on the apportioning of the old Napoleonic possessions, but the Venetians, led by Danielo Manin, rose against their oppressors in 1848-9, when the struggle for Italian independence really began; but it was not until 1855 that Venice was able to free itself from Austrian rule and become part of the new kingdom of Italy. Also prov. Italy; area 948 49, m. p. 405-465.
Venio, Dutch 1. on the Meues, 20 m. W. of Crefield, Venico, at in prov. Potenza, Italy; cathedral, pottery Ventunigila, 1 and coast resort in. Nice, Italy, p. 5,679. Cathedral and Roman antiquities.
Ventuner, salubrious 2021. pl. S. coast Isle of Wight, p. 5,797; 17 m. W. of Ryde; beautiful scenery, mild climate, much resorted to by invalids in winter. Vera, 1. in prov. Almera, Spain, nr. coast, p. 8,564.
Vera Cruz, c. and port Gulf of Mexico prov. Vera 20,210 8, m. p. 1,000,000. Contains volcano Orizaba (9,10). Fine new harbour, waterworks and drainage constructed in recent years.
Vercelli, c. on R. Sesta, Novara prov., Pledmont, Italy university, fine church of St. Andrea; large rice export; p. (including garrison) 55,468. Is a great railway centre, and possesses a fine muscum of Roman antiquities.
Verdun, 4, on R. Weser, Hanover, Prussia; Gothic cathedral dating from the 13th century, and of great interest for its architectural beauty and historic axociations; p. 10, 117.

Associations; p. 10,112. Verdun, fortfd. 2. on R. Mense, France; 12th century

Verdun, fortíd. 2. on R. Mense, France; reth century cathedral, confectionery, iqueur, and hardware factories; p. (declining) 13,460; t. Queb., Can., p. 13,000. Vereeniging, f. in Transvasi Colony, on the Valagam. S. of Johannesburg: the peace treaty betwn. the British and the Boers was signed here May 31, 1902. Vergara, t. on R. Deva, in Basque prov., Gupuzcoa, Spain; quaint old houses, thriving modern manuf. (paper and textiles); p. 6,615. Verla, f. in vilayet of Salonica, Turkey, 40 m. W. of the city of Salonica. In ancient times it was known as Berrhöa, and was one of the chief Macedonian towns. St. Paul preached at Berrhöa in 34. n.D. By the Turks of to-day it is called Karaferia; p. 8,500. Verkhne-Dnieprovak, f. nr. Ekaterinoslav, Russia; flour fairs; p. 13,600.

Verking-Inneyross, 7, 12,460.
Verkhoyansk, 1, in the Yakutsk prov. of E. Siberia, on the Yana R., 400 m. N.N E. of the city of Yakutsk. It has the reputation of being at the coldest part of the Asiatic contment, with a mean winter tempera-

ture of 55° F.; p. 360.

Verkhue-Udinak, f. E. Siberia, Asiatic Russia, at junction of Rs. Selenga and Uda, nr. Lake Baikal;

good trade, great annual fair; p. 9,812.

Verkhue-Uralsk, t. on Upper Ural R., govt. Orenburg,
Russ.; tanneries, distilleries, tr. with Kirghiz

Verkhus-Uralak, f. on Upper Ural R., govt. Orenburg, Russ.; tanneries, distilleries, tr. with Kirphy. Cossacks; gs. 13,252. Vermont, New England, st. U.S.A., adjng. Quebec prov., Canada; area 9,565 sq. m., travessed by the Green Mtns., p. 350,648; agr., mills, and manuf. Cap. Montpeller (gv.). Vermont lies W. of New Hampshire, and is the only entirely inland State of New England. It derives its name from the Green Mountains (Verd Mont), four of whose peaks have an altitude of over 4,000 ft., but are green to their tops. The minerals of the State include granite, marble, and slate, of which there are extensive quarries; and the proportion of area devoted to cereals is larger than that of any other New England State. It excels

In maple-sugar production, its yield of which nearly equals one-third of the total production of the country. Champlain was the first white man to set foot in Vermont. This was in 1609, and the first permanent settlement was established at Battleboro in 1724. Vermont is the fourteenth State of the Union, and took its place among the States in 1701. Vernon, t. on R. Seine, dep. Eure, France, p. R. 615, Also. L. (Containing Rockville c.) Tolland co., Connecticut, U.S.A.; manuf. silks, cotton, and woollens;

p. 8,546.

p. 8,546.

Vernoye, f. Russn. Turkestan, cap. Semiretchinsk govt.; large tr.; p. 18,500

Verona, lortid.-c. on R. Adige. Venetia, Italy; beautiful cathed; Roman antiquities; pelace of the Scaligers (now law courts and gao); active tr. and industries; p. 82,000; also prov. of Venetia compartment; area 1,188 sq. III., p. 475,416. The historic, artistic, and literary associations of the city of Verona are of high importance. It is one of the cities of the Quadrialereal and a fortness of the first class. Its ancient importance. It is one of the crites of the gradual lateral, and a fortress of the first class. Its ancient amphitheatre, which belongs to the and or 3rd cen-ter of the second control of the crites of the control of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites of the crites ampairmentre, which belongs to the and or 3rd cen-tury A.D., has a lesser diameter of 4pd ft. There are alsocremains of Roman gateways and a theatre. The cathedral is of the 12th century, and possesses an altar-piece by Titian; and there is a Romanesque basilica (St. Zeno), a larger and finer edifice than the cathedral. The ancient castles of Theodoric and cathedral. The ancient castles of Theodoric and the Scalas are now utilised for military purposes, and the tombs of the Scala family, with their exquisite wrought-iron railungs (130-80, are among the wonders of the city. The picture gallery of Verona contains some noted examples of the art of the Paduan, Venetian, and Veronese schools. Verona was the brithplace of the poet Catullus and of the painter Paul Veronese, and was the scene of Shakespeare's Romeo and Juliet and Two Centleman of the painter and Two Centleman of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the painter of the pa

Versailles, c. Scine-et-Olse dep., France, 12 m. W.S.W. of Paris; famous royal palace; here King William of Prussia was proclaimed German Emperor in 1871, after the Franco-Prussian War; mkt. gdng; distileries, etc., p. 61,000. Versailles is the see of a bishop, and has a public library of \$0,000 volumes. Its famous royal palace, now a great public show-place, was built by Louis XIII. (though on a comparatively small scale at first lond to the 16 and control of the 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 and 16 paretively small scale at first) on the site of an ancient prory. It was Louis XIV, however, who caused it to be extended to something like its present pro-portions, under the superintendence of Mansard, portions, under the supernitendence of Mansard, and the palece continued to be the favourite royal residence down to the Revolution of 1789. It was Louis, Philippe who converted the palace into a public museum. Its pictures include many of the best battle-pictures which French art has produced, those by David, dealing in the maln with Napoleon's various camputures. Beside of closel placeses.

those by Lavid, dealing in the main with Napoleon's various campaigns, being of clief Interest.

Versecz, fortfd. A. nr. Temesvar, Hungary, p. 25,114.

Verulam, on R. Ver, opp. St. Albans, Herts, Eng.; site of ancient Roman c [centre; p. 52,448.

Verviers, A. nr. Liége, Belgium; gt. cloth manuf.

Vervins, A. in the dop. of Alane, France, so m. N.E.

vervins, t. in the dep. of Laon, p. 3,439
Vesenskaya, t. in prov. Don Cossacks, Russ., on R. Don, in gdng, and cattle-breeding dist; p. 30,460.
Vesoul, t. nr. Besançon, Hautr-Saone dep., Franca, on

Vesoul, A. nr. Besançon, Haut-Saône dep., France, on R. Durgeon; p. (com.) 10,088.
Vesuvius, famous active volcano, S. Italy, on side of Bay of Naples; alt. 3,948 ft. Its cruption in A.D. 79 destroyed Pompeli and Herculaneum, and frequent eruptions have since occasioned havoc. The last serious cruption took place in 1906, when two villages were destroyed by streams of lava and falling ashes, and even doing dannage to roofs in Naples. The slopes of Vesuvius are exceedingly fertile and include some choice vineyards, from whose produce high-class wines are made. An observatory was built at the foot of the crater in 1844, which for nearly thirty years was presided overlay Professor Palmieri, who contributed much to the sharpement of astronomical and meteorological science by his observations. A fundcular railway from the base of the mountain to the edge of the crater has existed the mountain to the edge of the crater has existed since 1880.

Vessprim, industri. t. nr. Buda, Hungary; large tr. in

Veasprim, industri. 4 nr. Buda, Hungary; large tr. in grain and wine; p. 12,826.

Vevey, A. on L. of Geneva, cant. Vaud, Switzid., p. 10,125. Vevey is a charmingly picturesque health resort, 17 m. E. of Lausanne, and on the N. shore of Lake Geneva. The English regicides, Ludlow and Broughton, are buried in the old church of St. Martin's here, which dates from the 15th century. Vexio, £ cap. of Kronoberg co. Sweden, 60 m. W. by N. of Kalmar. Among the local industries matchmaking and iron-founding are the chief; p. 7,456.

Vézère, R. France, trib. (100 m.) of R. Dordogne. Vis-Mala, a famous Rhine zorge nr. Thusis, canton Grisons, Switzerland; the road and the river intertwine in the most picturesque fashion, showing halfopen galleries and tunnels, with precipitous rocks on either sade, many to a height of 1,600 ft. in places. Vianua do Castello, 59th Fortugal, at mth. of R. Lima, nr. Oporto; mainti, lace and nulk foods; exports lampreys and salmon; p. 10,114; also name of dist. area 865 sq. m., grows wine; extensive butterdairyg.; p. 225,600.

• area 800 sq. m., grows wine; extensive butter-dairyg.; p. 225,600.
Viareggio, soa-bathg. rzst. on the Mediterranean nr. Pisa, Tuscany, Italy; p. 17,176. Here there is a monument to the poet Shelley, whose body was washed ashore at Viareggio after he was drowned.
Viatkas, R. Russ., trib. [500 m.] of R. Kama: also govt.

campanile, 270 ft. high stands in the centre of the Piazza dei Signon, a very large and handsome square. The Duomo is a fine Gothic structure of the 13th century. Also N. of prov. of Venetia comp., lialy; area 1,052 sq. m.; p. 500,000 Vich, or Vique, c. nr. Barcelona, Spain; cathedral,

flourishing manuf; p. 12,140. Vichy (or Moutiers-les-Bains), wat pl. dep. Allier, icny for monuters-less-banns, wat pt. acp. Allier, France, 35 in 5 of Moulins, numeral springs, large export of waters; p. 14,500 (annual visitors nearly 50,000). The famous vkhy waters were known to the Romans, as is evidenced by the remains of marble baths still existing. Napoleon III. did nuch to popularise both the resort and the waters. The latter rise in copious springs at the foot of the volcanic mountain ranges of Auvergne, and are used both for medicinal consumption and for bathing.

Vicksburg, c. Warren co., Mississippi, U.S.A.; on cliffs above a "cut-of" L. on M. R; mftg, centre in cotton and timber region; prounnent in American Civil War, Confederate surrender 1853;

. 20,814.

ictoria, state of the Australian Commonwealth, separated by R. Murray from N.S.W. on N. Area 87,884 sq. m., mtmous., with fertile plans, and fine 87,848, sq. ni., minous, with rerite planins, and nine forests; agr., stock: tarming, gold-mining, etc.; p. 1,337,000. Exports, wool, corn, flour, etc. Capa, Melbourne (g.v.!) Victoria is, next to Tasmania, the smallest State of the Australian Federation. Seen as early as 1790 by Captain Cook, it was not until flor that the harbour of Port Philip was discovered and was a construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction until 180x that the harbour of Port Philip was discovered, and was not permanently taken possession of and colonised before 1835. From 1836 to 1837 Port Philip was administered from Sydney, but in the latter year was constituted as the colony of Victoria. The colony has an extreme length of Ago m. from E. to W., while its greatest breadth is only 280 m. It has a coast line of 600 m. From 185x, when gold was first discovered in Victoria, it has been a very productive gold region, being responsible for more than half the yield of all Australia, over £300,000,000 worth of the precious

metal having been obtained altogether up to the present time. Victoria has also contributed largely to the world's wealth in its wool production, its focks of sheep numbering some 12,000,000 animals. Its chief cereal crop is wheat. There are five different railway systems in the colony, controlling over 3,000 miles of line. Also cap. Brit. Columbia, on sil, Vancouver (4,00, 1), 23,000; also spt. and ch. t. Hong-Kong, on N.W. coast; immense tr.; p. 335,000. Also t. ton R. Uruguny, Entre Rios, Argentine, p. 4,827; also spt., cap. Expirito Tanto, Brazil, p. 5,81; also t. in. Caracas, Venezuela, p. 3,052; slov vil. on Huon R., Tasmania, p. 3,41; also t. on Guadaloupe R., Victoria, East, dv., C. Colony, Brit. S. Africa; area 370 Sq. in.; p. 9,874. Chf. t. Alice.
Victoria, Lake, on Paunit highland, 12,870 ft. above seelevel, is 17 in. long and 3 in. broad, and is supposed to be the chief source of the Oxus. It occupies a section of the Pamir frontier between Russia and Alghanistan.

Afghanistan.

Victoria Land, terr. in Arctic regions, S.E. of Prince Albert Land; also region of the Antarctic, discovered

Victoria Land, agr., in Arctic regions, S. E. of Prince Albert Land; also region of the Antarctic, discovered by Ross in 1841.

Victoria Nyanza, largest known lake of Africa, lies on the Equator; area 25,000 to 26,000 sq. m., discharges to the N by R. Nile; 3,705 ft. above sea. This far-extending sheet of water was discovered by Captan Speke in 1858, the story of his finding it and has description of its principal features causing a considerable sensation when published. Subsequently, in 1861-2, he and Grant visited it; and later (1875 and 1880) Stanley explored it, and added greatly to our knowledge of the lake. The Kagera is the chief feeder of the lake, whose native name is Ukorewe. There is to-day railway connection between the lake from Fort Florence to Monibasa on the Indian Ocean. The entire coast of the lake and islands was surveyed in 1906 by Commander Whitehouse.

Victoria, West, div. Cape Col., Brit. S. Africa; area 15.815 sq. m., p. 15.116; cap. V. W., t., 410 m. N.E. Cape Town; p. 864. Viennas, con. branch of R. Danube, Lower Austria, cap., etup. Austria; university, line catherli, St. cap. femp. Austria; university, line catherli, St.

cap, emp. Austria; umversity, fine cathedl. St. Stephen, Rathaus, Parliament bldg., magmf. Prater cap, emp. Austra; universit; fine catheil. St. Steplien, Rathaus, Parliament bidg., magun. Prater park, immense industrl. activit), thr ving commerce and manuf.; p. (including garrison 27,000 strong) 2,031,100. Vienna is one of the most strictly modern citucs of Europe, its Inner City and Ringstrasse forming very handsome and fashionable quarters. The Catheidral of St. Stephen (1300-150), with a steeple 450 ft, high; the Imperial Falace, the Holburg; and numerous palaces of the Austrian nobility, are among the striking features of the Inner City; and in the Kingstrasse are the chief public and commercial buildings, including the Exchange, the Rathhaus, the Parlament House, the Law Courts, the Imperial Museum, and the University. Of Vienna's many public parks, the Prater, 7 50, m. in extent, is the chief; it was opened in 1766. Maria Theresa, Maria Antomette, Jobann Strauss, Czerny, Schubert, and Baron Hubner were natives of Vienna. Vienne, R. France, trib. (220 m.) of the Loire; also dep. W. France, watered by R.V.; area 2,712 sq. m., agr. and vineyards; p. (decling.) 333,56; cap. Yottiers. Also t. in dep. Isere, France, nr. Grenoble, on R. Rhone; textile ind, and glove factories; p. 23,208.

23,208.

23,200. Vienne, Haute. (See Haute-Vienne.) Viersen, A. nr. Dusseldorf, Rhemsh Pruse.; velvet, plush, silk, and cotton industries; p. 25,125. Vierzon, industri. A. nr. Bourges, dep. Cher, France,

Vierzon, industri. 7. In. Bourges, uep. Cher, France, p. 10,136.
Vigan, f. nr. Nimes, dep. Gard, France, p. 5,515; also t. In S. Ilocos, prov. Luzon, Philippine lais.; agr. and locaj industries; p. 19,416.
Vigevano, an Italian cathedral c., so m. N.W. of Vige, fortfd. f. on Rio de Vigo, prov. Galicia, Spain; impt. fishery and shipping industries: p. 27,810.
Vigo has often been subjected to attack. It was taken by Drake in 1985 and again in 1989; by Lord Cobham in 1719; and the combined British and

Dutch fleets, under Sir George Rooke and Admiral Val Almonde, captured or destroyed a combined Spanish and French fleet here in 1702.

Vijayanagar, a ruined city in the Bellary dist. of the Madras Presidency, India, 40 m. N. W. of the city of Bellary. From the 14th to the 16th century Vijayanagar was the capital of a Hindu kingdom.

Vilkomär, I. in Kovno govt., Russ., nr. Vilna; gd. tr.; n. 1689.

Vilkomis, I. in Kovno govt., Russ., nr. Vilna ; gd. tr.; p. 16,89.

Villa Clara, I. nr. Trinidad, Cuba; industri, and com-Villa dal Pilar, c. of Paraguay, no, in from Asuncion; large orange output; p. 5,946.

Villa Haranca, I. in Verona prov., Lombardy, Italy; silk manut; p. 7,846.

Villa Haranca, I. in Verona prov., Lombardy, Italy; silk manut; p. 7,846.

Villa Haranca de los Barros, I. Badajos prov., Spain; wine and corn country; p. 7,072.

Villa loyosa, cst. I. on Mediterranean, prov. Alicante, Spain, opp. isl, of Benidorm; fisheries and domestic manuf.; p. 9,154.

Villa Nova de Gala, I. on R. Douro, Portugal; sub. to Oporto; portery, wine casks, tobacco, and glass factories; p. 15,218.

Villa Mova de Gala, I. on R. Douro, Portugal; sub. to Oporto; portery, wine casks, tobacco, and glass factories; p. 15,218.

Villa Manuelay Geleva, pt. Barcelona prov., Spain; fishy, and agr., centro; pt. 114.

Villeaueva y Geltru, 59t. Barcelona prov., Spain; fishy, and agr. centre; p 13,114.
Villa Raal, 42t. Portugal; area 1,717 sq. m.; p. 250,174; cap. V. R., t. on R. Corpo; p. 6,888.
Villa Rica, t. (90 m. E. of Ascension) Paraguay; in agr. and timber regn.; p. 26,246.
Villefranche de Rouergue, t. on R. Aveyron, nr. Toulouse, France; industri.; p. 11,420.
Villefranche sur Sadna, t. dep. Rhône, France; 19 m. N.W. Lyons; cotton and thread factories; p. 16,078.

ré, orê, ré, orê, Villena, industri. .t. Alicante prov., Spain ; p. 15, 218. Villeneuve-sur-Lot, mftg. .t. dep, Lot-et-Garonne, [5,556.

Villeneuve-sur-Lot, mftg. 1. dep. Loi-et-Garonne, France; p. 14,8ts.
Villeneuve-sur-Yonne, 1. dep. Yonne, France; p. Villeneuve-sur-Yonne, 1. dep. Yonne, France; p. Villeneuve-sur-Yonne, 1. dep. Yonne, France; p. Villeneuve-sur-Yonne, 1. dep. Yonne, France; p. Villeneuve-sur-Yonne, 1. dep. Yonne, 1. dep. timber export

tumeer export
Vilvorde, f. on R. Senne, Brabant, Belgium; oil and
chemical factories; p. 13,810.
Vinalera, f. in Estremadura, Portugal, nr. Torres
Vedras; Wellington's victory, Aug. 21, 1368; p. 2,502
Vinanca, spt. f. nr. mth. of R. Ebro, Spain; shp.-bldg.,

Vinarce, spt. 4, nr. mth. of R. Ebro, Spann; anp.-Didg., p. 79, 173.
Vincennee, 4, with castle and wood, 4 m. E. of Paris, France, p. 18,500. The ancient castle dates from the 4th century, and was long used as a State prison, in which at different times Henry IV., Condé, Diderot, Mirabeau, and others were confined. It was in the castle moat that the Duc d'Enghein was shot. Since 1834 the old edifice has been utilised as a fort. Also c. on Wabash R., Indiana, U.S.A.; ry. centre, p. 11,118,

Vindhya, min. range separate, the Deccan from the Ganges besin, India, alt. of highest summit, 4,500 ft. Vinegar Hill, nr. Enniscorthy, co. Wexford, Ireld.; hattle 1700

Vinh, t., csp prov. Vinh, French Indo-CZha, betwn. Hanol and Hué, p. of prov. 1,550,000. Vinita, t. of the Cherokee nath., Indian Terr., U.S.A.,

Vianitas, t. on Bug R., govt. Papolia, Russ., p. 19,886. Vionville, 2tl. nr. Metz, Lorraine, Germany. Viramgam, t. nr. Ahmadabad, Bombay, čndia; tr.

Centre, p. 19,325
Virayanaliur, č. in Tamevelli dist., India; flourishg.
Virayanaliur, č. in Tamevelli dist., India; flourishg.
Vire, č. nr. Caen, dep. Calvados, France; interestg.
anc. bldga, ruined chateau, granite quarries, grain

'r., p. 6,314. Virginia, an Atlantic st. U.S.A., S. of Marvland ; area

42,450 sq. m.; tobacce culture, p. 2,052,137; cap. Richmend (e.v.). Virginia is separated from Maryland by the Potomac. R. and Chesapeake B. From E. to W. its greatest length is 475 m.; its greatest width 190 m. The Appalancha Mins, on the W. are of low range. Besides the Potomac, the chief rivers are the Kappahannock, the York, the James, the Blackwater, and the Roanoke. Virginia is famous for its Natural Bridge in Rockbridge co., and for its mineral springs. "Virginia leaf" tobacco is the finest quality that the United States produces. It was at Jamestown in this state that the first representative assembly in America was held, and its early history is full of romantic incidents. In the struggle for independence, Virginia took the lead, and provided men like Washington, Jefferson, Madison, and Patrick Henry to do battle for the cause. In the civil war it furnished the great Confederate communder, Robert E. Lee, and on its soil the last battle of the war was foreth and the final surrender made. (See also W. Virginia Took and the final surrender made. (See also W. Virginia City, on E. slope Mt.) Davidson, Newada, U.S.A., alt 6,005 ft. above sea; silver mining dist., Imuch becreased 1,222.
Virginia Water, artifici. resident! dist., p. 7,462.
Virgin Islas, 279. In the W. Indies, E. of Porto Rico, comprising a press of the Brit. Leeward Isl., Col., certain dependeless of Forto Rico, and the isls. St. Croix, St. Thomas, and St. John [all of which see]. Total area 375 cm. p. 56,000.
Visnaigat, f. in Baroda, Bombay Pres., India, p. 20,448.

Visuagar, t. in Baroda, Bombay Pres., Indis, p. 20,148.
Visuagar, t. rising in Austr. Silesia, and flowing 603 m.
past Cracow and through Russn. Poland and Prus. to the Baltic nr. Dantzic. Its three head waters are the White, Little, and Black Vistulas, and in its long course it receives as tributaries the waters of the Bug and other streams. From Cracow to the sea it is navigable.

Vitebak, 2002. W. Russ., adjng. Baltic Provs.; area 17.440 eq. n., forests, agr., and gdg., p. 1.536.50c, p. v., t. on R. Dina, 354 m. W. of Moscow; gt. tr. in corn and cattle, p. 66.816. It is a river port and episcopal see, with a fine cathedral dating from

r664.

Viterbo, c. prov. Rome, Latium, Italy; fine ch. of Santa Maria della Verita, with 15th century frescosa (now used as public hall), anc. Etruscan cemeteries near, alum mines, match manuf. p. 16,000.

Viti Levii, largest of Fiji 1112. (90 m by 50 m.), p. 71,480.

p. 71,480. [to R. Lena. Vitim, R. E. Siberia, flows from nr. L. Baikal 900 m. Vitré, to n. R. Viaine, dep. Ille-te-Vilaine, France; picturesque Breton commune, with castle and fine Gothic ch. p. 12,112.
Vitry le François, t. (fortid.) on R. Marne nr. Chalons,

Vitry le François, f. (fortid.) on R. Marne nr. Chalons, France; bell foundg, &c., good tr., p. 8,564. Vittorla, cz. Basque prov., Alaws, Spain, p. 30,780; Wellington's victory, June 27, 1813. Vittorla, d. nr. Modica, prov. Syracuse, Sicily; silk manuf., p. (com.) 26,120. Vittorla, d. nr. Treviso, Venetia, Italy; summer rest., saline and sulphur springs, has cathedl., silkworm breeding and silk spinning centre, p. 11,800. Vivero, d. prov. Lugo, Galicia, Spain; good coasting trade and fishery; p. 12,824. Vizagapatam, dist. Madras, Brit. India, area 79,242 sq. m.; rice, millet. oil-seeds; p. 3,000,000. Cap. V., spt. t., exports rice and sugar; weaving and ornamical wood box-making; p. 35,018.

mental wood obs-making; p. 35,078.
Vizeu, &cs. Portugal (anc. prov. Beira Alta), area
1,900 sq. m., p. 410,900. Cap. V., t. nr. Oporto;
cathedral, Roman ruins; p. 8,055.
Vizianagram, & in Vizagapatam dist., Madras, India,
nr. the spt. of Binifipatam; res. of the first Hindu
nobleman of Madras, many fine buildings, good tr.;

D. 33.664.
Vlaardingen, fishing & on R. Mass, Holland, nr. Rotterdam, p. 11,183. The herring fleet of V. is large and important, and is responsible for much of the town's prosperity.

Viadikavkas, fortfit, f. on R. Terek, N. Caucasia.

Russ.; impt. mil. centre (garrison 12,000, besides Cossacks), many factories and distilleries; stands at the foot of the main Caucasus chain and is an impor-

tant railway terminus; p. 55,000 (3,000 only in 1960).
Vladimir, gow. Central Russia, between Nijal
Novgorod and Moscow, area 18,864 sq. m.; manuf.
and agr.; the gow. is, next to St. Petersburg and and agr.; the govt. is, next to St. Petersburg and Moscow, the most prosperous in the country from an industrial point of view, the various textile manufactures of cotton, woollens, worsteds, linen and silve being carried on very extensively. Fruit culture is also a flourishing industry. The chief minerals are alsoaster, porcelain clay, and limonite; the soil, which is generally of a sandy nature, produces cats, rye, millet, barley, fiax and potatoes. There are numerous lakes and marshes: p. 1,900,500. Cap. V., old c. on R.'s Lybed and Klyazma: p. 30,876. There are many ancient buildings of interest, including the cathedral of the Assumption (1176), the church of St. Demetrius (1291), the church of the Nativity, and the "golden gate" or triumphal archiepiscopal palace, formerly the convent of the Nativity, and the "golden gate" or triumphal archiepiscopal, and restored under Catherine II. Vladimir was founded in 1176 by Vladimir Monomaki, becoming the capital of a line of grand princes who

becoming the capital of a line of grand princes who succeeded to those of Kleva mong Russian rulers. Vladimir-Volhynais, f. in govt. Volhynia, nr. the frontiers of Russaa proper, Poland, and Galicia; large churches (ruined); frequently besieged by

large churches (ruined); frequently besieged by Tartars; p. 9,854.
Vladivostok, chf. Russian spt. and naval station on the Pacific. Cap. of the viceroyalty of E. Asia, Siberia; teruinus of the Trans-Siberian rlwy.; p. 62,000. The harbour of Vladivostok is considered to be one of the finest in the world. It was founded as a port and station in 1861.

Station in troil.

Vileland, Friesian isl. at entrance Zuyder Zec, N.
Holland, 10 m. by 1½ m.

Vodina, 2 nr. Salonica, Roumelia, Turkey; good tr.;

Voghera, l. nr. Alessandria, prov. Pavia, Italy, p.

(com.) 17,540. Voil, Loch, Perthsh., Scotl. (31 m. long), W. of Lochearnhead.

Voll, Loch, Pertish, Scotl. (3) m. long), W. of Lochearnhead.
Voiron, t. nr. Grenoble, dep. Isère, France; p. 12,460.
Voirons, Los, min. range Haute-Savoie dep., France,
ro m. E. Geneva; highest summit, 4,873 ft.
Voican de Agua, concial min. nr. Guatemala t.,
Centri. America; discharges water, destroyed Old
Guatemala by flood in 1341; alt. 12,157 ft.
Voicano Isla, three sml. Japanese isis, in the Pacific,
named Iwo-Jima, Minami-livo-Jima, and Kita-iwojima; latter is largest and most N.; Minami-livo-Jima
(the most S.) rises, 2027 ft. from the water.
Voichansk, t. in Kharkov govt. Russ., nr. Bylegorod;
tanneries and distillieries; p. 12,862.
Volga, R. Russ., rises on Valdai plateau, govt. Ter,
flows in a serpentine course 2,325 m. to the Caspian
at Astrakhan; has very heavy traffic over a navigable
length (with canals and trib. Rs.) of nearly 20,000 m.
The waters are frozen in winter and traffic is suspended. It has important fisheries. Among its
tributaries are the Oka, Kama, Mologa, and Viatka.
The principal towns on the Volga are Jaroslav,
Kostroma, Nilni Novgorod, Kazan, Simbirsk,
Stavrogol, and Saunar.
Volkynia, 2004. S.W. Russ., on Austrian frontier, area

Stavropol, and Sanuara.
Volhynia, gowi. S.W. Russ., on Austrian frontier, area
\$7,473 \$4, m., p. over 3,000,000. Forest land in N.,
agr. S.; gding., bee-keepe,, stock-raisg., also many
factories; there are deposits of porcelain clay, fron
ore, kaolin, coal, lignite, graphite, jasper and amber,
and large tracts of black earth; cap. Zhitonir.
Volkov, R., Russ., flows (230 m.) from L. Ilmen to L.
Ladors.

Ladogal, anc. t. govt. Grodno, Russ.; long the scene of dispute between princes of Lithuania and Volhynla; annexed by the Czar after first divn. of

volvynia; annexed by the Czar atter art divis. or Poland; p. xr, xs4.
Volo, spt. f. in. I arissa, at head of G. of V. in Thessaly, Greece; gd. harb. and dr.; p. xr, xs4;
Vologda, gov. European Russ., bordering on the Ural Mats., area 150,496 sq. m., p. (declining) 1,360,550.
Forest-clad; agr. and dairying in the clearings; there is considerable mineral wealth, sait and tron being

found in abundance; the main industries, how-ever, are connected with timber; and textile factories,

ever, are commected with timber; and teatile factories, oil works, pear-mills, and bristle works are numerous; cap. V. t. on V. R., p. 26,200; large tr. with St. Petersburg in agr. prod.

Volsk, t. on R. Volgs, Saratov govt, Russ.; gd. tr.;

Volta, R. Upper Guines, flows (900 m.) from the Kong Muts and Ashantes; also sml. t. nr. Mantus, Italy 1 Austrian victory over Sardinians, 1848.

Voltchansk. (See Volchansk).

Volterra, t. nr. Piss, Tuscany, Italy; the national museum in Tagassi Palsce contains a fine collection of Etruscan antiquities, and there is a Romanesque cathedral of great interest, dating from 120; saline spring, alabaster industries, p. 7,814.

Voltri, cst. t. nr. Genoa, Liguria, Italy, pilgrimage shrine, shipbdg, and ironwks; here Austrians defeated the French under Masséna in 1800, p. 7,950.

deteated the French under massens in 1800, p. 7,960.

Voorne, isi, of S, Holland, betwn. mth. of the Meuse and Hanng Vilet.

Vorariberg, **row. Austria, W. of the Tyrol, area 1,004 50, m., hilly, with mtn. valleys; goat and cowkpg., weaving and embroidy., p. 180,815, cap, 750,815.

kpg., weaving and embroidy., p. iso,815, cap. Bregenz (g.v.).
Voronezh, gvvt. S. Russ., area 25,448 sq. m.; agr. stock-rearing, with woodwk. and domestic manus., p. 3,400,000, principally pensants; among the mineral deposits are porcelain clay, other, iron ore, sulphur, and pent; there is a large trade done in market gardening; and the industries include flour milk, sugar refineries, soap works, tobacco factories, iron foundries, and bell-making establishment; cap. V., on V. R. nr. its Junch, with R. Don. Here Peter the Great in 1695 laid the foundath, of the Russn. fleet; import coninci centre, p. 88,562

on V. K. nr. its junctin. with K. Doh. Here Feter the Great in togs laid the foundam, of the Russn, fleet; import coninct centre, p. 88, 458. Vorontsowka, vvl. in govt. Voronezh, Russ.; rifie manuf, and impt. faliss, p. 12, 827. Voronezak, svl. co. Saros, N. Hungary; opal mine; a stone, said to be worth a million sterling (now in Court museum at Vlenna), was found here. Vosges, min. chain E. France and Alsace-Lorraine, Germy., spo. m. long, extending from Basel on the N., they run along the left side of the Rhine Velley, and give forth the rivers Saar and Moselle on the N.; highest summit, the Ballon de Guebwiller (e.w.); also E. frontier dep. France, are az 305 sq. m., agr., dairying, vineyds., textile inds., p. (increasg.) 430,000 cap. Epunal (e.w.); standing on the Upper Moselle. The mountains are well wooded, and the plains exceedingly fertile, while the deposits of coal, silver, lead, copper, and lithographic stones are extensive. There are also many mineral springs, including those at Plombieres and Contrexéville, which are much resorted to by invalids. invalids.

Voskresensk f. in govt. Moscow, Russ., p. 6,724. Vostitza, a Creek f. on the Gulf of Corinth, 25 m. from Patras, p. 5,422. Vosnesensk, f. on R. Bug, govt. Kherson, Russ.; cathedral, four large fairs annually, distilleries, p.

16,426.

Vranya, f. nr. the Macedonian frontier, Servia; garrison; flax and hemp culture and manuf., p. 12,806; near is the health rest. (warm sulphur aprings)

12,600; near is the instant of the control of Vranyska Banya.
Vratza, t. on R. Vratzanska, Bulgaria; wine, silk, jewellery; Tcher Ress atrocities in 1876 and 1877, occasioning bombardment and capture by Russ.;

occasioning bombardment and capture by Rusa; p. 14.874.
Y-pharing cas. Bit. Bechuanaland, S. 48.; goldfield in neighbourhood; p. 5.814. Vrybing occupies a position near a head-stream of the Vail R. 145 m. N. of Kimberley. It is of growing importance and has many public buildings, including government buildings, churches, schools, hospitals, etc.
Vryheld, chief L. of a coal district in the extreme N.E. of Natal, to which colony it was transferred from the Trifavaul in 1900.
Vilcano, most S. 161. of the Lipari grp., 18 m. N. of Sicily.
Vilcan Pass, in the Carpathian Mins., between Vyatka. (See Viatka).
Vyazma, 1. of Central Russia, 90 m. E.N.E. of

Smolensk, famous for its manuf. and its gingerbread.

P., 18, 42.

Vyernyi, fortful. /. prov. Semiryechensk, Asiatic Russ., at ft. of Trans-Ili Alatau, alt. 2,420 ft.; destroyed by earthquake in 1887; distilleries, oil wks., etc.; p. 31,116. It is a considerable trading centre, possesses a horticultur il college and a cathedral, and has some noted Nestorian inscriptions of the 8th

contury.

Vyriwy, L., art, reservoir, Montgomerysh., Wales, with a dam z.180 ft. long, furnishing water to Liverpool; 5 m. long, with an area of z.121 acres. This artificial lake holds z.02,00,000 cubic feet of water. It was eleven years in construction.

Vyshaevolotakaya Slatema, canal linking the R.'s Volga and Neva, Russ. 5,0 in. long; val. medium water transit for goods from the Caspian to the capital.

Vytegra, t. nr. L. Onega, govt. Olonets, Russ.; p.

Wa, t. on Black Volta R., nr. the Lobi bdy. of the Gold Coast internor, Brit. W. Africa; p. 5.246. Wasz, R. Hungary, trib. (200 m.) of R. Danabe. Wasl, southern 2700 of R. Rhine, esparates from main stream nr. Arnhelin, and flows through Gelder land to Gorinchem, where it is joined by the R.

land to Gorinchem, where it is joined by the R. Meuse, and pursues its course through several mouths in S. Holland to N Soa.

Wahaah, R. Ohio and Indiana, U.S.A., trib. (550 m.) of R. Ohio. The Wahash and Eric canal is 476 m. in length—the longest in the United States; also c., cap. W. co., on R.W., Ind., U.S.A.; rlwy. centre;

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s institution.

institution.

Wadai, kingdom of central Soudan, W. of Darfur and
E. of Lake Chad, under French influence; area
(abt.) roo,coo sq. m.; pastoral; inhab. by Mohammedan negroes of the Maba tribe; p. 2,000,000 to
4,000,000. There is a large exportation of ostrich
feathers and ivory from Wadai; chf. t. Albesh.

Wadebridge, a small Cornish spt. 7 m. N.W. of
Bodium:

Bodmin.

Wadelai, t. left bank of the Upper Nile, Africa, 40 m.
N. of the Albert Nyanza, formerly the cap. of Emin
Pasha's equatorial prov. Has been under British

Wadhwan, st. in Gujarat div., Bombay, India; area say sq. m.; p. 43,200; cap. W., t. junctn. of Kathawar riwy system with Bombay and Baroda line; p.

95,042.

Wadnagar, t. nr. Visnagar in Baroda, India; p. 16,110.

Wadnagar, t. industri.) on R. Don, sub. (N.W.) to Sheffield, W.R. Yorks, Eng.; p. 9,246.

Wadsworth, tunsthe, next Hebden Bridge, W.R. Yorks, Eng.; manuf.; p. 4,918.

Wady Halfa, place at the second cataract of R. Nile, S. Egypt. There is steamer communication with Assuam, and with Khartûm by rail.

Wady Musa, the modern name of Petra, N. Arabia.

The tradition is that the stream which here issues through the gropes at the entrance to the city was

The tradition is that the stream which here issues through the garge at the entrance to the city was that which was set flowing by Moses striking the rock.

[Glent and N. and W. of S. Schelder Wassland, dist. E. Flanders prov., Belgium, N. E. of Wagningen, t. Netherlands, prov. Gelderland zz m. W. of Arthem, p. 684.

Wagga-Wagga, t. on R. Murrumbidgee, N.S.W., 309 m. S.W. of Sydney; has a great railway bridge over the Murrumbidgee River; p. 6.084; gold-mining, vol. m. Velma, Lower Austria; here Napoleon defeated the Austrians in z809.

Walson, vil. Nebraska, U.S.A.; imp. fivy. centre; Saunders co.; p. 4.818.

Wahaseth Mins., on W. border Great Basin, Utah, U.S.A.; alt. of highest summit, zz, 500 ft.

Wai, £ on Krishna R., Satara dist., Bombay Presidency, India, 30 m. from Poona. Contains large Hindu temples and is a great resort of pligrims,

Hindu temples and is a great resort of pilgrims, p. 14,000.

Walkato, R. N. isl, N. Zealand, flows sgo m. to W. Harbr. Rises on the slopes of Mount Ruspehu in North Island and runs through L. Taupo, and 4 m. below the lake passes over Huka Falls (20 ft.). Is navigable for steamers for 7g m. from its mouth. It was in the Walkato Valley that the most serious encounters between the British soldiers and the Maoris took place in 1869-1864.

Walkouaiti, L. nr. Dunedin, N. Zealand, p. (dist.)

7. 450.
Waimate, t. nr. Christchurch, N. Zealand, p. 2,415.
Waimad, upland dv. of Malabar dist, India; high tableland among the W. Ghats; area 999 sq. m.; 3,000 ft. above sea; p. 89,500; gold-minng.
Wainfleet, mkt. t. on R. Steeping, Lincolnsh., Eng.,

p. 1,453.
Wainganga, R. India, 350 m. long, one of the head streams of R. Godavari. Waiping, t. prov. Che-Kiang, China, S.W. of Hang Chow; commcl. centre; p. 140,000. Wairakei, t. on L. Taupo, N. Zealand; liealth rest.;

res. p. 1,140. Wairo (or Clyde), t. on W. R., New Zealand, p. (dist.)

1,865. Waitaki, f. nr. Christchurch, New Zealand, p. 1,473. Waitara, post f. nr. New Plymouth, New Zealand,

p. 1,204. Waitomo Caves, on the Waitomo R., New Zealand. Waitzen, a 4. on the Danube, so m. N. of Budapest,

p. 17,000.

Wakamatsu, t. in Japan, main island, 55 m. S.E. of Nugata, largely engaged in the manufacture of lacquer ware.

Wakatipu, beautiful L. (52 m. by 21 m.) S. Isl., New Zealand ; 1,200 ft. deep, 1,070 ft. above sea. Wakayama, f. on the main island of Japan, 35 m. S.W. of Osaka. Is largely engaged in the cotton

S.W. of Osaka. Is largely engaged in the cotton industry, p. 73,100.

Wakefield, mitg. c. W.R. Yorks, Eng., on R. Calder, p. m. S. of Leeds; cathedl.; p. 51,516. Has been the seat of a bishopric since 1888. Upon a ninearched bridge across the Calder here stands a small chapel founded by Edward IV. Wakefield has many historic associations; it was the scene of the battle in 1400, when the Lancastrians defeated the Yorkists; also I. in Middlesex co., Mass., U.S.A.; industrl.; p. 10,816.

also f. in Middlesex co., Mass., U.S.A.; industri.; p. 10,816. Wakkerstroom, dist. Transvaal Col., Brit. S. Africa, bounded N. by the Vaal R. p. 12,109. Walajapet, f. m. Arat, N. Arcot div., Madras, India, Walata, an assis of the W. Sahara, some 260 m. N. W. of Timbuctoo.

Walcha, 2 in a clust nr. Armidale, N.S.W., p. x.400. Walcher, n. W.-most isl. prov. Zealand, Holland; 12 m. long, low-lying, agr.; p. 41.000. The Walcheren Expedition of 1600 was one of the most disastrous incidents of British naval history of the period. Waldeck-Pyrmont, principality Germany, between Westphalia, Hesse-Nassau, Lippe, and Hanover; area 423 e.d. m. p. 9.000. agr. and stock-feeding; a large part of the principality is coverod with forest, and there are important mineral springs at Pymont and Wildungen; cap. Aroles (g.v.). Walden, vt. New York, U.S.A., Orange co., p. 4,118. Waldenburg, t. on R. Mulde, Saxony; industri.; p. 3,180; also t. on R. Polsnitz, Prussn. Silesia; mfg. centre (porcelain and fire-clay), colliery dist.; p. 18,140.

centre (porcelain and fire-ciay), comery usz.; p. 18,140.
Waldenses, plains of Piedmont, known as the "Four Valleys" (so m. by 10 m.), W. of Saluzzo in the Italian Alps, p. 20,000. Many of the sturdy Reform band of Waldensians have emigrated (there are over 6,000 in Uruguay and the Argentine).
Waldoboro, & Maine, U.S. A., in Waldo co., p. 4,116.
Waldoboro, & Maine, U.S. A., in Waldo co., p. 4,116.
Walsz, principality S.W. of Great Britain; washed by Irish Sea, St. George's Cham, and Bristol Chan, area 7,962 sq. m., mountainous, with much mineral wealth; divided into N. and S. W., each containing 6 cos.; p. 1,260,600; good pasturage. Wales has four episcopal sees, but the main portion of the

population is Nonconformist, and anxious for dis-establishment of the English church in the princi-pality. There are university colleges at Bangor, Aberystwith, and Cardiff, and a Welsh University for the affiliation of these colleges was established in 1894. The coal and iron industries of Wales have

the affiliation of these colleges was established in 1894. The coal and iron industries of Wales have been immensely developed during the last fifty years. Chief c. Cardiff (p.v.).

Walfisch Bay, Brit. harbr. and settlement S.W. Afr. surrounded by Germ. terr., annexed in 1884 to Cape Col.; area 439 sq. m. p. 780.

Walford, par. on R. Wye, Herefordsh., Hng., p. z.,314.

Walham Green, sub. of London, and dist. of Middlesex, 6 m. W.S.W. of St. Paul's.

Walkden, industri. dist. nr. Recles, S.E. Lancs, Eng., p. 5,476. [to Newcastle; industri. p. 1,4,986.

Walker f. on R. Tyne, Northumberid., Eng., subn. Walkerburn, vd. of Peeblesshire, on the Tweed, nr. Innerielthen; woollen factories, p. 1,200.

Wallacetown, dist. on R. Ayr, within the burgh of Ayr, Scotl. p. 6,246.

wegamescown, ass. on R. Ayr, within the burgh of Ayr, Scotl., p. 6,246.
Wallachia (part of the anc. Dacia) aiv. Roumania, hetwn. the Carpathians and the Danube and the Black Sea and Servis; area 30,000 sq. m., p. (abt.) 4,000,000; united with Moldavia in 1861 into the Roumanian principality.

4000,000; innted with motiavia in test into the Roumanian principality.

Walla-Walla, cap. W.W. co., Washington, U.S.A., on Milb Creek, in wheat region, p. 12,116.

Wallan-Wallan, post t. nr. Melhourne, Victoria, p. 1655. [in copper milig. dist., p. 3,800, Wallaroo, spt. on W. Bay, Spencer Gulf, S. Australia, Wallaney, industrl. dist. adjng. Birkenhead, Cheshire, Eng. p. 98 514.

Wallasey, industr. dist. adjng. Birkenhead, Cheshire, Eng., p. 98-514.
Wallenstadt, L. cant. St. Gall, Switzid. (11 m. long) nr. L. of Zurich; also sm. t. on E. end of L., p. p. 60-61.
Wallerawang, t. 205 m. W. of Sydney, N. S. W., ming. Wallingford, bor. on R. Thames, Berks, Eng., pld spridge 300 yards long. The place was fertified by the Romans, destroyed by the Danes in 1006, but rebuilt. In Henry VIII.'s time there were 41 perish churches in the t.; only three of these now renain—St. Peter, St. Leonard, and St. Mary. Blackstone, author of the famous legal Commentarie, lies buried in the church of St. Peter; also t. nr. the Qunniquac R., New Haven co., Connecticut, U.S.A., silver-plate works, p. 10, 124.

works, p. ro.124.

Wallis Isls, grp. in S. Pacific, nr. Samoa, Germ, possn., largest (and only inhabited) isl. in the arch., Uvea, p. 3,000.

Wallsend, t. on R. Tyne, Northumberid., Eng., nr. Newcastle, at end of the old Roman wall, colly. dist.,

Newcastle, at end of the old Roman wall, colly. dist., p. 44.464.
Walmer, est. £. Kent, Eng., nr. Deal (included in Cinque Port of Sandwich), contains W. Castle, the offict. res. of the Lord Warden. Duke of Wellington died here in 1852. The castle was built by Henry VIII. Bathg. rest., p. 5.347.
Walpole, viz. nr. Boston, Mass., U.S.A., p. 3.849; also wil. on Counecticut R., New Hamph, U.S.A., p. 3.856.
Walsall, industri. £. nr. Birmingham, Stais, Eng., mftg. bits, bridles, saddlery, etc., p. 92.30.
Walsalm, nr., r. Rochdale, S.E. Lancs, Eng., p. Walsham, N., mkt. £. Norfolk, Eng., p. 4.254.
Walsham, N., mkt. £. Norfolk, 5 m. from Fakenham, there is a mixed Augustinian prory of the 11th century, famed for its image of 'Our Lady of Walsingham, f. in was to this shrine that Henry VIII. made a barefoot pilgrimage.

a barefoot pligrimage.

Walsoken, c. on N. border Norfolk, Eng., adjng.

[5.443. Wisbech, p. 3,410.

Waltershausen, & nr. Gotha, Germy., industri., p.

Waltham, c. nr. Boston, Mass., U.S.A., machine-made

Waltnam, c. nt. Boston, Mass., (1.5. A., machine-mate watches, p. 26,000.
Waltham Abbey, or Waltham Holy Cross, t. on R. Les, Essex, Eng., 12 m. N. of London; abbey founded by King Harold, cordito factory, p. 6,796.
Walthamstow, ρer. S.W. Essex, Eng., subn. to London; industri, and residiti, p. 124,597.
Walton-in-le-dale, twn.s.φ. on R. Ribble, N. E. Lancs, Eng.; industri, p. 123,328.

Walton-on-Thames, per. nr. Kingston, Surrey, Eng.; anglers' rest., p. 12,838. The Metropolitan Convalescent Institution, founded in 1840, is here. Walton on the Hill, mftg. seb. Liverpool, Lacc.,

Walton on the Hill, mftg. sub. Liverpool, Lancs, Eng., p. 75,602.
Walton-on-the-Naze, cst. wat. pl., Essex, Eng., pes. p. 2,172.
Walworth, sizt. S. London, Eng., in hor. Southwark; Walvisch Bay.—(See Walfisch Bay.)
Wan-chow-hi, f. and treaty per prov. Che-Klang, China, on R. Gow, nr. Sea, p. 80,000.
Wandiwash f. of the Madras Press, N. Arcot dist., nr. Chengalpal. Here Sir Eyre Coote defeated the French in refo.

French in 1760.

Wandsbeck, f. in prov. Schleswig-Holstein, Prusa.; spirit manuf., oleographs, etc., p. 30,815. Wandsworth, ber. Surrey, on R. Wandle and R. Thames, S.W. London, Eng.; mftg. and residtis.

p. 311,402.
Wanganui, R. New Zealand (N. isl.) flows (60 m.) to sea at New Plymouth; also t. on same, p. 5,029.
Wangaratta, L. co. Bogong, Victoria; agr. and fruit

growg. dist., p. 2,445. Wanlockhead, mining 24%, 81 m. E.N.E. of Sanquhar,

655

Dunfriesshire, p. 670.

Wansbeck, R. Northumbld., Eng., flows 23 m. E. past
Morpeth; gives names to W. parly. div. N. co., colly. dist. residtl.

dist, [residt].

Wanstead, f. Essex, Eng., 7 m. N.E. London, p. 2, 82, Wantage, mkt. f. Berks, Eng., in vale of the White Horse, 26 m. W. of Reading. The first steam tramway in England was started here in 1875. It is 24 m. long and connects with Wantage Road stallon. King Alfred was born at Wantage, and there is a marble statue of him. Bishop Butler was also a native of Wantage; in 2 608.

marble statue of him. Bishop Butler was also a native of Wantage; p. 3,668. Wapakoneta, t. nr. Piqua, Auglaize co., Chio, U.S.A., Wapping, industri. Thaines-side dist. E. London, Eng., below the Tower, p. 3,846. Wappinger's Falls vit. Ditchess co., New York, U.S.A., on Wappinger's Creek, nr. the R. Hudson, p. 4,204. [industri., p. 17,526. Warasadin, fort. t. on R. Drave, Croatia, Austria; Waratah, t. Northumbid, co., N.S.W., colly, and vineyd, dist; p. 3,486.

Warsadin, 10ft. r. cu. Warstah, A. Northunbid. co., N.S.W., colly. and vineyd. dist, p. 3,486.
Warburg, industri. A. on R. Diemel, Westphalia, Pruss.; was an anc. Hanseatic t. p. 5,442.
Wardell, A. on cst. nr. Ballina, N.S.W., p. (dist.) 2,163.
Wardha, dist. Nagput div. Centl. Provs., india; area 2,488 5d. m., large cotton crop, p. 385,000 (decreased); cap. W., t. on the Wardha R.; cotton factories, p. 2,218.

cap. W., t. on the Wardha R.; cotton factories, p. 9,718. Wardha, R. of W. dist., Cent. India, flows 954 m. to join R. Wainyanga, affit. of R. Godavari. Wardour Castle, Witts, the seat of Lord Arundell of Wardour, 15 m. W. of Salisbury. Ware, mkt. i. Herts, Eng., on R. Lea, p. 5,842. The great Bed of Ware, for so long associated with the pisce, was removed to Rye House in 1869. There are the remains of a policy dainer from 1822, and a set the remains of a policy dainer from 1822, and a

place, was removed to Rye House in 1869. There are the remains of a priory, dating from 1323, and a fine cruciform church. Also t. co. Hampshire, Mass., U.S.A.; cotton and woollen manuf; p. 8,60. Wareham, mikt. t. nr. Dorchester, co. Dorset, Eng., p. 2,002. This old t. was a Roman station, and has a grassy vallum, still complete on three of its sides. By a fire that occurred in 1762, a large part of the t. was destroyed.

Warendorf, industri. t. nr. Münster, Weetphala, Warlalda, t. in pastoral dist., N.S.W., on Gwydyr R., Burnett co. p. (dist.) 2, 286.

Warialda, f. in pastoral unit, attaching the Burnett co., p. (dist.) 2, 286.
Wark Castle, an old ruin on the Tweed, sign. W. by S. of Cornhill, Northumberland. The castle of the Percies here, now in ruins to a great extent, was built in the 12th century. The old Norman church has the Marian County p. 11,764.

in the 12th century. The old Norman church has been restored. (R. Coquet, p. 11,764. Warkworth, 5-2. Northumberland, Eng., nr. mth. Warley, industri. & nr. Halifex, W.R. Yorks, Eng., p. (dist.) 3.643. (p. 3.642. Warmbrunns. f. nr. Liegnitz, Prussn. Silesia; industri.) Warminster, mkt. & Westbury div., Wits, Eng.

P. 5.492.
Warnelorf, t. Rumburg dist., Bohemia, nr. Sanoa frontier; cotton spinning, calico printing, velvet, frontier; cotton spinning, calic silk, and linen manuf.; p. 22,689.

Wazora, t. Chanda dist., Cent. Provs., India; colliery

Wallintun, and in olden times often figured in history, being of strategic importance because of its bridge over the Mersey. Here the Scots were defeated in 1648, the Royalists in 1651, and a remnant of Prince Charles Edward's army routed in 1745.

Warnambool, 79t. Villiers co., Victoria; wat. pl.: exports dairy prod.; p. 6,506.

Warnam, 200t. Russlan Poland, on bank of R. Vistula and Lower Bug R. down to Prussian frontier; area

and Lower Bug R. down to Prussian frontier; area 6,749 sd. m.; agr., stock-raising, machanery, and sugar factories; p. (over) 2,000,000. Cap. W. c. on left bank of Vishula (also cap. Poland); fort and industri. centre (garrison 31,000), iron and steel works, boot and shoe factories, tr. in com, leather, sugar, etc., hop and wool fairs; colleges and fine buildings, gardens and squares; p. (about) 790,000. Connected by bridges with the sub. of Praga (g.w.). Warsaw, t. on R. Mississippi, Hancock co., Illinois, U.S.A.; p. 4,124; also c. on Tippecanoe R., Koscussko co., Indiana, U.S.A.; p. 4,564. Warthe, or Warta, K. of Russn. Poland, Posen and Brandenburg, Pruss; trib. (490 m.) of R. Oder; also t. on R., W. govt., Kalisz, Russn. Poland; p. 5,262.

p. 5,263.

Warwick, English midld. co., contains the Forest of Arden, Stratford-on-Avon, Coventry, and a large dist.; p. 4,014; also cotton mftg. t. Kent co., Rhode Isl., U.S.A., on Narragansett Bay; p. 23,224. Waseca, vil. W. co., Minnesota, U.S.A., nr. Owa-

Wassea, 74. W. Co., manages, tonns; p. 5,240.
Wash, R., flowing so m. from co. Rutland, Eng., to R. Weiland, Lincolnsh.; also estuary of R.'s. Weiland, Witham, Oues and Nen; co.'s Lincoln and Norford, as m. long, width at mth, ip. N. Sea, 15 m. Much land has been reclaimed on both sides of the Rennis the architect, put channel of the Ouse. Rennie, the architect, put forward a proposal to reclaim 150,000 acres by drain-ing the Wash, and the project has been agitated again of late years, but has never been seriously

agrain of late years, but has hever been schoulsy undertaken.

Washa, L., nr. New Orleans, Louisiana, U.S.A.; ta m. long.

La m. long.

Washburn, c. Wisconsin, U.S.A.; on Chaquamegon Washburns Mtms, range in the Yellowstone Natl. Park, U.S.A.; highest summit, 10,345 ft.

Washington, st. N.W. portn. U.S.A. on Pacific

Oc., adjng. Brit. Columbia; area 2,767,000 aq. m.; rich in coal, iron and other minis., with much forest and agr. land; p. 390,700. Cap. Olympia; chf. c.; Seattle and Tacoma (p.w.). Also c., cap. of U.S.A., in dist of Columbia, on the R. Potomac; contains the Capitol (covering 3) acres), with Senate Chamber, House of Representatives, Supreme Court, Library of Congress, etc.; also President's residence (The White House), Patent Office, Post Office, Smithsonian Inst., National Museum, Carnegle Instn., Columbian University, etc.; p. 232,128. Also c., in coal regn. Indiana, U.S.A.; p. 9,740; also miftg. box. (iron, brass, glass, etc.) in Washington co. Penn.; p. 8,015; also c. Fayette co., Ohio, in farmg. dist.; p. 5,760; also spt. or Familico R., S. Carolina; p. 6,22; Also name of many co.'s, and smaller t.'s and vila, in U.S.A.

Washita, Vashita, R., Arkansas and Louisiana, U.S.A., trib. (400 m.) of Red R.

Wasmes, Ar. Mons, prov. Heinault, Belgium, in Le Boringe coal dist., p. 15,206. [5 m. long. Wast Water, Lake, Cumberland, Eng., nr. Keswick, Watchet, a spi. of Somerset, on the Bristol Channel, 20 m. N.W. of Taunton

Waterbury, c. on Naugatuck R., New Haven, Con-necticut, U.S.A.; manuf. watches, pins, and bras-

necticut, U.S.A.; manu. watches, pins, and oracygoods; p. 74,000.
Waterford, co. in Munster prov., Ireld., washed by St. George's Channel; nitnous., area 722 sq. m.; agr., live.stock, fisheries; p. (declining) 83,765; co. t., W., c. on R. Suir, an anc. Danish stronghold; resisted Cromwell in 1649; but taken by Ireton 1559; gd. tr. in dairy nord; n. [on extended area] area & sco. in dairy prod.; p. (on extended area) 27,430. Also t. on R. Hudson, Saratoga co., New York, U.S.A.;

manuf.; p. 6,518.

Waterloo, vol. S. Brabant, Belgium, 9 m. S.S.E. of
Brussels; Napoleon's defeat by Wellington, June 18.

Brussels; Napoleon's defeat by Wellington, June 18, 1815.
Waterloo(-with-Seaforth), west. pl. at mouth of R. Mersey, Lancs, Eng., 5 m. N.N.W. of Liverpool, p. 26, 395; also c. on Cedar R., Blackhawk co, lowa, U.S.A., mitg. centre in agr. dist., p. 27,000; also vil. Laurens co., S. Carolina, U.S.A., p. 5, 244; also t. on Seneca L., New York, U.S.A., p. 4,140.
Waterside, vsl. on R. Doon, Ayrsh, Scotl, p. 1,280.
Watertown, c. on Black R., Jefferson co., New York, U.S.A., carriage works, foundries, and manufs, p. 26,114; also t. on Charles R., Middlesex co., Mass., U.S.A., contains national arsenal and the cemetery of Mt. Auburn, p. 17,427; also c. on R. Rock, Dodgeand, Jefferson co.'s, Wisconsin, U.S.A.; university, manuf., p. 8,500. manuf., p. 8,500. [p. 2,916. Water Valley, vsf. Yalabusha co., Mississippi, U.S.A., Waterville, c. on R. Kennebec, Maine, U.S.A.; cotton

Watervilet, c. (formerly vil. of W. Troy) on R. Hudson,
Albany co., New York, U.S.A.; govt. arsenal; p.

Ti, 560.
Watford, mkt. £. on R. Colne, Herts, Eng. (connected with Bushey by bridge); cocoa and other mansf.; p. 40,953. There is a fine old church of the Parpendicular order, restored in 1871, which contains monuments of the Morrissons and Cassellis, Earls of Essex, whose seat, Cassiobury, is close to the

Wath-upon-Dearne, industri. t. nr. Barneley, W.R. Yorks, Eng., p. 11,830.
Watkins, ev. on Seneca L., Schuyler co., New York, U.S.A.; adjacent to picturesque Watkins Gien,

U.S.A.; adjacent to picturesque warking users, 14.736.
Watting Isl., one of the Bahamas grp., 18 m. long (generally supposed to be the San Saivador of Columbus); p. 2,285.
Watting Street, one of the principal Roman reads of Britain; ran from Dover through Canterbury to London, and thence by St. Albans and Stony Stratford along the present Warwicksh. border to Wrozeter on the R. Severn, and north to Chester, 16th discoveres thranches. with divergent branches.

Watington, t. of Oxfordshire, 8 m. N.E. of Walling-ford, p. (of par.) 3,767. Watseka, f. on Iroquols R., Illinols, U.S.A., indus-Watson's Bay, New South Wales, 7 m. N.E. of Sydney; a favourite seaside resort.

Watsontown, ber. Penn., U.S.A., on R. Susque-hanna, Montour co., industri.; p. 5,046. Watsonville, c. California, U.S.A., nr. the B. of

Watton, mkt. 4. on R. Wissey, Norfolk, Eng.; p. 15,415.
Watton, mkt. 4. on R. Wissey, Norfolk, Eng.; p. 1513. Wayland Wood, which tradition fixes upon as the scene of the old ballad of "The Children of the Wood," is close by.
Wattrelos, 4. nr. Lille, dep. Nord, France; industri.; p. 20,24.

p. 20, 124.
Wankegan, c. on L. Michigan, Illinois, U.S.A.; cap.
of Lake country; engaged in the manufacture of
brass and iron goods; a favourite summer resort;

wass and iron goods; a layounte summer resort; gd. harb. and tr.; p. 12.087.

Waukesha, vii. on R. Fox, W. co., Wisconsin, U.S.A.; magnesian springs, health rest.; the seat of the Carrol Presbyterian College; p. 8.122.

Waupeta, c. W. co., Wisconsin, U.S.A.; p. 4,164.

Waupeta, vii. nr. Fond du Lac, Wisconsin, U.S.A.;

p.4,086.

Wausau, c. Marathon co., Wisconsin, U.S.A., on Wisconsin R., in white pine regn.; timber works;

Wisconsin R., in white pine regn.; timber works; p. 15,103.

Wauseon, vil. Fulton co., Ohio, U.S.A.; industr.; Waveney, R. Norfolk and Suffolk, Eng.; flows go m. to sea, nr. Yarmouth.

Waveney, R. Norfolk and Suffolk, Eng.; flows go m. to sea, nr. Yarmouth.

Waverley, sub. of Sydney, N.S.W.; boot-making and baking-powder factories; p. 24,700.

Waverly, vil. on R. Chemung, Tioga co., New York, U.S.A.; it, r. centre in dairy rgn.; p. 5,000; also vil. nr. Baltimore, Maryland, U.S.A.; p. 5,745 also t. on Cedar R., Bremer co., Iowa, U.S.A.; p. 4,808.

Wavertree, elst. S.E. Lancs, Eng., subn. (S.E.) of Liverpool; industrl. and residtl.; p. 15,240.

Wavre, t. nr. Brussels, S. Brabant, Belgium; mftg.; French victory over Prussns, here on morms, of bettle of Waterloo; p. 8,500.

Wavrahachie, t. Texas, U.S.A.; rly, centre in Ellis Waycross, t. in Wave co., Georgia, U.S.A.; p. 7,486.

Wayland, vil. on Sudbury R., Mass., U.S.A.; p. 3,451.

3.451. (p. 6.214
Waynesboro, f. Franklin co., Penn., U.S. A.; industri.;
Wazan, sacred c. of Morocco, S.E. of Tangiers, p.
x1.416. The headquarters of the Grand Shereef, and ch resorted to by Pilgrims.

Wazemmes, f. France, subn. (S.W.) to Lille, industi..

p. 19,800
Wasirabad, £. nr. R. Chenab, Gujranwala dist.,
Punjab, India; boat-bldg., ron manuf., p. 16,018.
The Alexandra railway bridge across the Chenab,

The Alexandra railway orage across the Chemacy, built in 1976, is a fine structure.

Waziristan, sectn. of min. dists. N.W, frontier. India, lying betwn. the Tochi and Gomul R.'s, contiguous to the Afghan border; inhabited by a ferce indept, tribe who have given the Brit. Indian authorities great trouble by their raiding; punitive expedition, rigol, led to the occupn. of the Tochi valley by Brit. troops; Kanigoram, the Waziri cap., has a coneld. iron tr.

wants by Brit. troops; Rangoram, the warm cap, has a consid. fron tr. Weald, The, wooded and pastoral tract S.E. Eng., extending from Folkestone, Kent, through parts of Surrey, Hants, and Sussex to the sea about Beachy

Wear, R., Durham, Eng., rises on the western border of the county, flows 60 m. to N. Sea, at Sunderland, where great coal export and shipbuilding industries

where great cout eapons are carried on.

Weatherley, bor. Penn., U.S.A., in Carbon co., nr.
Maach Chunk.

Weaver, R. Cheshire, Eng., trib. (45 m.) of R. Mersey.

Weaver Hills, Staffs, Eng., nr. E. bdr. of co., alt.

Vebb City, Jaspar co., Missouri, U.S.A., in lead and

weeb City, Jaspar co., Missouri, U.S.A., in lead and sinc regn. p. 11.86.
Weber Cahon, picturesque spot on the R. Weber, rith. of the great Sait Lake. north. Utah, U.S.A.; travered, by Union Pacifir Say.
Webster, c. in Worcester co., Mass., U.S.A., on the Rench R.; textile and boot factories; p. 9.642.
Wedstare, per, nr. Axbridge, Someract, Eng., p. 3216.
It was at this spot that the treaty of peace was signed between King Alfred and Guthrum the Dane do 918.

Wednesbury, mkt. t. nr. Birmingham, Stai 1,7 stoneware, potteries, iron and coal indus ies; p. s8, n6 (of parly, bor, 96, 978). There is an ol chusch dedicated to St. Bartholomew, said to stand on the site of a temple to Woden. This church is of the site of a temple to Woden. This church is of the site of a temple to Woden. This church is of the site of a temple to Woden. This church is of the site of a temple to Woden. This church is of the site of a temple to the original edifice now remaining. A castle was founded at Wednesbury by Ethelfada, Edward the Elder's sister. But in spite of these historic associations, Wednesbury is very modern in its general aspect, and owes its prosperity to the mineral resources of the district and the very active part it has played in the development of the iron, steel, machinery, and allied trades.

Wednesdeld, A. near Wolverhampton, Staffis, Eng.;

part it has played in the development of the monsteel, machinary, and allied trades.

Wednesfield, t. near Wolverhampton, Staffis, Eng.;
lock and key manuf. p. 6,602.

Weardt, industri. t. nr. Limburg, Holland, p. 8,025.

Wei-bal-wed, Frit. naval strt., N. E. cst. Shantung
peulns., China, nr. the treaty port of Chefoo; held
under lease; area (include; the nat. t. with 200,000 p.)
abt. 120 sq. m. Harbr, and port fortified.

Welmar, c. on R. lim, nr. Erfurt, Germy., cap. of
grand-duchy Saxe-Weinar; many learned and scientific instns.; "the German Athens"; Goethe's house
contains the Goethe and Scilller archives, and other
interesting collections; the Stadtkirche, dating from
1400, contains many interesting tombs, including
those of Bernhard of Weimar and Herder; and
among the other buildings are the ducal palace as
rebuilt in 1790-1802 after being burnt down in 1774.
and the court theatre where Wagner's "Lohengriu."

was first produced by Liszt; p. 35,480.
Weinberge, t. in Bohema. Austria, subn. to Prague, p. 54,280; industri, and resident!
Weinbeim, t. on the "Mountain Road" at the foot of

Weinhelm, 7. on the "Mountain Road" at the foot of the Odenwald, N. of Heidelberg; castles and house of Teutonic Knights; wine, fruit, etc.; p. 13,374.
Weipert, 7. on slope of the Erzgebirge, Kaaden dist, Bohenia; chf. centre of the Austrian lace and fringe-making industry; p. 10,814. [p. 4.424 Weir, c. Kanasa, U.S. A., m Cherokee co.; industri, Weissenburg, 7. in Lower Alsace, nr. Strasburg, Germany, on R. Lauter; formerly a fortid, free imperial c.; paper and colour printing, match manuf.; stormed by the Prussians and Saxons, 1393; decisive German victory over the French, 1890; p. (including garrison of 2,000) 7,240. Wine and fruit grown.

grown,
Welssenburg-am-Sand, old walled £ of Middle Franconia, Bavaria, nr. Nuremberg; Roman remains,
fortalice of Willsburg (2,060 ft. high) overlooks the £;

fortalice of Wülzburg (2,000 ft. high) overscoss use L; gold and silvor fringe manuf.; p. 6,440.
Weissenfels, 4. on K. Saaic, nr. Merseburg, Prussian Saxony; mfg. centre in voal dist; p. 30,260.
Weisshorn, the great Alpine peak rising W. of the Zermatt Valley (14,804 ft.), first climbed in 186x by Deaf Tundeil Prof. Tyndall.

Weisskirchen, industri. t. nr. Temesvar, Hungary;

p. 11.024.
Welsskirchen, or Mährlsch-Weisskirchen, £. on R.
Betschwa, nr. Ohnutz, Moravia; chocolate, liqueux,
and preserve manuf., textile industries; p. 7.942.
Welbeck Abbey, the sent of the Duke of Portland,
y m. S. of Worksop, Notts, standing in a park no in circumference. The manison occupies the site of

in circumference. The manion occupies the site of an old Fremonstratensian abbey. Welland, R. Northants and Lincolish, Eng., flows (70 m.) to the Wash. [193 m. long] W. of the Niagara. Welland Canal, connects Lakes Erie and Ontario Welle-Makua, R. of Equatorial Africa, flows W. from nr. Wadelal, the Upper course of the Medangi or Ubangi R., trib. of the Congo; explored by Stanley, Schweinfurth, and Greenfell.

belonging to Queensland.
Wellingborough, mkt. t. on R. Nen, Northants, Eng.,
zoj m. E.N.E. of Northampton. It has ancient reg m. E.N.E. of Northampton. It has ancient associations, including a chalybeate spring, the Red Well, to which Charles I. is said to have resented. In 778 it was almost destroyed by fire. It constants an old parish church, restored 285:-74; a grammar school, founded in 259; and a corn-exchange. Iron-smelting is one of the local industries; leather manuf.; p. 19,758. Weilington, mkt. 4. nr. Shrewsbury. Shropshire, Eng., p. 7,80c. Its ancient name was Watting Town, because it stood on the line of Watting Street, Also mkt. t. nr. Taunton, Somerset, Eng. This was the town from which the famous warnor duke took his title, the manor, which had been held by King Alfred, Asser, Alchelm, the Protector Somerset, and the Pophams, being purchased for him in 1813; a considerable industry in woollen and worsted goods is carried on here; p. 7,634. Also t. in Hutt co., on Port Nicholson, N. Island, New Zealand, cap. of the col.; fine harbour, impt. tr.; Weilington was settled in 1820, and became the seat of government in 1865; its principal buildings are Government in 1865; its principal buildings are Government in 1865; its principal buildings are Government in 1865; its principal buildings are Government in 1865; its principal buildings are Government in 1865; its principal buildings are Government in 1865; its principal buildings are Government in 1866; its principal buildings are Government in 1867; its principal buildings are Government in 1868; its principal buildings are Government in 1868; its principal buildings are Government in 1868; its principal buildings are Government in 1868; its principal buildings are Government in 1868; its principal buildings are Government in 1868; its principal buildings are Government in 1868; its public museum, colleges, etc.; and there is a public park, with botanical gardens, of too acres; p. 52,114. Also prov. containing same, soo m. by 80 m. p. 147,000. Also a cent. part of the 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; and 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; its principal buildings are Government in 1869; its principal buildings are

antiquity. The present see was founded by Edward the Elder in 900, although 200 years earlier King Ina established a house of secular canons there. Among its bishops of Wells the names of Wolsey, Fox, Laud, and Ken occur. The cathedral, though small, is considered to be perhaps the most architecturally beautiful of English ecclesiastical edifices, its famous at foods with its fox matchless sculptured figures, beautiful of English ecclesiastical edifices, its famous west front, with its 6co matchless sculptured figures, 151 of which are life-size or colossal, being of remarkable beauty and grandeur. The central tower is fof ft, high, and the two western towers 130 ft; p. 4,655. Also vil. York co., Maine, U.S.A., p. 3,854. Wells, or Wells next the Sea, spt. £. Norfolk, Eng., nr. Holkham Bay, p. 2,555. Wellston, c. Jackson co., Ohlo, U.S.A. or, centre, p. Wellswille, c. in colly, and farming dist. Columbiana co., Ohlo, U.S.A. on the Oho R., p. 6,400. Wels, £ on R. Traun, nr. Linz, Upper Austria; old castle (in which Emp. Maximilian ded, 1519); corn and cattle tr., mchny., gunpowder, felt and paper factories p. (including garnison) 13,105. Welsopool. 800. Con R. Severn, Montgomerysh., Wales, nr. is Powis Castle, the seat of Earl Pows, the descendant of the Herberts, who owned the castle from the days of Elizabeth, and of the Clives; p. 5,217. One of the Montgomery boroughs.

5.017. One of the Montgomery boroughs.

Welwyn, par. of Herts, 5 m. N. of Hatfield. Young, the author of Night Thoughts, was vicar of Welwyn,

and lies buried in the churchyard.

Wem, mkt. 4 nr. Shrewsbury, Shropsh, Eng., p. 9, 722 Wembley, Middx., an urban dxx. 2 m. E.S.E. of Harrow, p. 20,697. Wembley Fark, opened in 1894 as a pleasure resort, is much visited, but the tower, which the late Sir Edwin Watkin, Bart., projected, was only completed to the first stage, and finally pulled down in soy. The district is now becoming largely residential.

pulled down in 1907. The district is now becoming largely residential.

Wemyse, per. of Fife, 2 m. N.E. of Dysart, and including the vils. of East and West Wemyss, combined p. 3,800.

Wemyse Bay, stmr. pier and hydropathic rest. Renfrewsh, Scotl., 8 m. S.W. Greenock.

Wen-Chow, Chinese treaty per., in the Prov. of Chehkiang, p. over 80,000.

Wendel, c on R. Blies, nr. Treves, Rhenish Pruss, p. Wenderver, a per. of Bucks, g m. S.E. of Aylesbury, and lying under the Chiltern Hills. Up to 182 it returned members to Parliament, p. 2,000.

Wener, large L. Sweden, W.N.W. of L. Wettern, with which it is connected by canal (and thence with the Baltic): area, 2,199 et., 172 m. long, gist width 50 m.; almost divided by s peninsulas and an isl. grp., the western half being called L. Dalbo.

Wenershory, lake per's Sweden, on a tongue of land betwn. the R. Gota and the Vasobotten (the

southnmst. bay of L. Wener); connected by the Dalsland canal with Frederikshald in Norway; match and paper factories, p. 6,500. Founded in

Daisland canal with Frederikshald in Norway; match and paper factories, p. 6,500. Founded in x642, W. has several times been burnt down. Wengern Alp, a hadpar in the Little Scheideck pass, Bernese Oberland, Switz.; magnif. view, alt. 6,708 ft. Wenham Lake, Massachussetts, 22 m. N.N.E. of Boston, famed for its large yield of ice. There is a lake of the same name at Drobak, near Christiania.

iake of the same amount in Norway. Wenlock, or Much Wenlock, f. Shropsh., Eng.; fron and coal dist., p. 15,284. It is a municipal borough, comprising in addition to Much Wenlock, Broseley, Coalport, Madeley, Ironbridge, and Coalbookdale, Wenlock was incorporated by Edward IV. in 1485.

Wenlock was incorporated by Edward IV. in 1448, and returned two members to Parliament until 1882. Wensum, R. Norfolk, Eng., trib. (30 m.) of R. Yare. Wentwood Forest, an ancient wooded tract in Moomouthshire, 44 m. S. S. E. of Usk. Wentworth Castle, the seat of the Wentworth family, erected 1790-68, 3 m. S. S. W. of Barnsley. Wentworth Woodhouse, 44 m. N.W. of Rotherham, in the West Riding of Yorkshire, the seat of Earl Fitzwilliam. In the 17th century it was the home of the ancestor of the Fitzwilliams, the great Earl of Strafford ('Thorough'). Wentworth, £ in co. W., on Darling R., N.S.W.; pastoral dist., p. 1864.
Wepener, £ m. Caledon R., on border Basutoland and Orange R. Col., Brit. S. Afr., battle April, 1900. Werdau, £ on R. Pleisse, nr. Zwickau, Saxony; textile and mchy, manuf., p. 21680.

and mchy. manuf., p. 21,680.

Werden, t. on R. Rhur, in the Rhine Prov., Pruss.;
Benedictine abbey; cloth mftg. centre in colly, and

Benedictine abbey; cloth mfg. ccutre in colly, and quarry dist., p. 11,085.
Wermelskirchen, industri l. nr. Dusseldorf, Rhenish Wernigerode, l. on R. Holzemme, at ft. of Harz mtns., Saxony prov., Pruss.; castle; p. 10,140.
Werra, R. Germany, a headstream of R. Weser; rises in Saxe-Meulingen, and flows [170 m.] through Thuringat to the Fulda at Münden. [dist.; p. 1,86z. Werribee, vsl. nr. Melbourne, Victoria; pastoral Werwioque, l. on the Beignan frontier with considerable tohacco factories, p. 9,200.
Wesel, fort. l. Rhine prov. [Pruss., nr. Duisburg, on R. Lippe; museum and meteorological stn., j. p. 22,106.

Weer, R. W. Germany, flows from the conflu. of Fulda and Werra R.'s at Munden (270 m.) past Bremen to N.S. east of the R. Elbe at Bremerhaven. Weer Mtna, terraced untnous. regn. on both sides of R. Weser, from Munden to Minden; highest pk.

r, 650 ft. Wessex, the ancient kingdom of the West Saxons, including Berks, Hants, Wilts, Dorset, Somerset, Devon, and Cornwall

West Australia.—(See Australia, W.)
West Bay City, on R. Saginaw, Bay co., Michigan,
U.S.A., opp. Bay C.; pine-timber industries; p. 13,460. [p. 4,215. West Bethlehem, bor. Penn., U.S.A., in Clarion co.; Westboro, t. (mfig.) Worcester co., Mass., U.S.A.;

Westboro, c. (mfg.) Worcester co., Mass., U.S.A.; I., 5,50c.
West Boylston, vil. nr. Worcester, Mass., U.S.A.; West Bromwich, mfig. bor. on R. Tame, Staffs. Eng., nr. Birmingham; mchny., tools, and metal works; West Bromwich is called Bromwich in the Domesday record, and in the 1st century was the seat of a Benedictine priory. There are no relice of olden days remaining, however, the town being of wholly modern aspect, owing its expansion from the position of the small village of a hundred years ago to its present extent and prosperity to the rich fields of coal and iron in its vicinity; p. 68,32; Westbrook, c. on R. Presumpscot, Cumberland co., Maine, U.S.A.; paper, cotton, and silk factories; p. 7.520.

Vistoury, old £ nr. Salisbury, Wilts, Eng., woollen factories, brickwks. Until 1832 it returned two members to Parliament and was allowed to send one member from that date to 1885, when the privilege was taken from it, and it became incorporated with the country representation. The famous Westbury White Horse, 175 ft. long, is on the S.

slope of Westbury Down, and is supposed to commemorate King Alfred's defeat of Ethandun in 878;

P. 3.433-Weatbury-on-Severn, £ 8 m. S.W. Gloucester, Eng.; [3.412.

Westbury-on-Severn, 4.8 m. S.W. Gloucester, Eng.; industri, p. 1,812.
West Calder, 4. 15k m. S.W. Edinburgh, Scotl.; p. West Chester, bor. in mkt.-gdug, dist., Chester co., Fenn., U.S.A.; residtl, sub., Philadelphia; p. 10,346.
West Cleveland, 7160, U.S.A., on L. Eire; p. 6,246.
[N.E.]; industri, p. 40,542.
West Derby, £. sub. to Liverpool, Lancs, Eng. (owest Duluth, 24f. sub. to Duluth, Mimesota, U.S.A., on L. Superior; p. 5,640.
Westburglen, grp. of 116, on N.W. cst., Norway, separated from the Lofoten lists. by the Raftsund.
Westeras, £. on N. bay of L. Melar, Westmanland, Sweden; Gothic cathedl. (with val. episcopal hbry.); 76th centry, castle; p. 12, 204.

roth centy, castle; p. 12, 104.
Westerham, inkt. f. nr. Sevenoaks, Kent, Eng., on
Surrey border; p. 2,784. Birthplace of General

Westerkirk, par. in Dumfriesshire, 6 m. N.W. of

Westerly, vil. on Rhode Isl., 44 m. S.S.W. of Provi-

Wence, p. 7,800.
Westernoriand.—(See Azores and Hebrides.)
Westernoriand.—(See Hernoesand.) [p. 14,614.
Westfield, £ Hampden co., Mass., U.S.A.; manuf.
West Flord, charnel sep. Lofoten Isls. from Nor-

wegtan manland. West Flanders, prev. Belgium, adjng. N. S. and French border, area 1,249 sq. m. (See also Flanders.) Westfield, £ of Massachusetts, 9 m. W. of Springfield. Westford, £ nr. Lowell, Middlesex co., Mass., U.S.A.,

p. 4,610. Westgate-on-Sea, cst. wat. pl. nr. Margate, Kent,

West Ham, Parly. bor. Essex. Eng., subn. to E. London; industri. and residential; bordered by R.'s Thames and Lea; p. 289,102.

West Hartlepool, i. [within Pady. limits of Hartle-pool (q.v.)], Durham, Eng., p. (sep.) 63,932. West Haven, bov. subn. to New Haven c., Connecti-

cut, U.S.A., p. 5.680.

West Hoboken, t. on Hudson R. cliffs, N. of Jersey City, opp. New York, U.S.A.; silk factories; p.

City, opp. New York, U.S.A.; silk lactories: p. 35,403.
West Houghton, mfg. t. nr. Wigan. S.E. Lancs, West India Isla., or Antilles, groups in the Atlantic extending between the coats of Flonda and Vene zuela, separating the Caribbean Sea from the G. of Mexico; comprising the Bahamas, the Greater Antilles (Cuba, Haytı, Jamaica, Porto Rico, and the Caymans), the Virgin Isls., the Lesser Antilles (including the Leeward and Windward grps.), and the isls. off Venezuela belonging to that State. From the 17th to the 17th centuries the French, English, and Dutch were in frequent conflict regarding the possession of these various islands. France secured sion of these various islands. France secured Martinique, Grenada, St. Vincent, and Guadeloupe between 1635 and 1719; the Dutch obtained Tobago between 1935 and 1739; the Dirtit Outsides 1 190ago and Curação in 1952; and the English took possession of St. Christopher, Barbadoes, Antigua, Dominica, and the Grenadines between 1623 and 1963. Later, England wrested St. Vincent, Grenada, and St.

Lucia from the French. (See separate entries.)
West Indianapolis, & in Indiana, U.S.A., subn. to

West Induarapolis, 2. in Indiana, U.S.A., subn. to I. city: residenth; p. 6.46. Westland, \$rov. New Zealand (S. isl., W. cst.), sepfrom Canterbury prov. (of which it was formerly a part) by the Southern Alps: 200 m. long, 20 n. wide, p. 20,000; chf. t.'s. Greymouth and Hokitiza (g.v.); muntus, gold mining. West Lothian.—(See Linlitingowshire, Scott). Westmanland, \$rov. Sweden, N. of L. Mizlar, area 2.63; 50, m., p. 146,118; cap. Westeras (g.v.). Westmankh, ind. co. Leinster prov., Ireid, area 708 sq. m.; pasture and tillage, with much bog; (declining) 99,812 dairying; co. t. Mullingar. Westminster, c. on N. bank of the Thames, Middlesex, Ring., W. of London; contains Houses of Parliament, Westminster Abbey. Government offices, Royal Palaces (Buckingham P. and St. James's), Roman Catholic Cathedral, National Gallery, Tate Gallery

of British Art, and many other fine bldgs.; industri. and residenti., as well as official; p. 160.277. Westminster, £ in Maryland (nr. Baltimore), p. 3,87s. Westmout, £ Queb., Can., p. 15,000. [On the land, £ Queb., Can., p. 15,000]. Cumberland, W. and N., and touching Morecambe B., area 183 sq. m., covering part of the Lake Country (Windermere, Uliswater, Grasmere, etc.); agr., leadmining, quarrying; p. (slightly declining) 63,575; cap. Appleby; most p. K. Kendul There are numerous mountains, including Helvellyn (3,118 ft.) on the Cumberland boundary. Bow Fell (2,050), Fairfield, (2,950), Dufton Fell (2,603), and Dun Fell (2,760); the moorlands are of great extent, and woods and plantations cover over 17,000 acres.

plantations cover over 17,000 acres.
West Newbury, vil. nr. Boston, Mass., U.S.A.,

West Newbury, vil. nr. Boston, Mass., U.S.A., p. 3.018.
Weston-super-Mare, wat. pl. Somerset, Eng., on an inlet of Bristol Channel, p. 22.235. A hundred years ago it was only a small fishing village, but its sheltered and picturesque situation and bracing air gradually attracted many visitors, and it is now a fashionable resort, with esplanade, promenade pier, and public gardens.
West Orange, industri. t. Essex co., N. Jersey, Westphalia, W. Prov. Pruss. (former duchy and some time part of a kingdom); adjoins Holland, Hanover, and Rhenish Fruss.; area, 7,98 sq. m.; dairying gdng., agr., horse-breeding; contains also princip. coalfields of Germny; p. 4,130,000. The archbishops of Cologue, as Dukes of Westphalia, had control of the duchy from 180 to a much later period. In 1807 Westphalia formed part of the kingdom ruled over by Jerome Bonaparte, and in 1813, when Jerome was

westphalia formed part of the kingdom ruled over by Jerome Bonaparte, and in 1813, when Jerome was deposed, the province as it now exists was assigned to Prussaa. The industrial wealth of Westphalia and its modern prosperity have been built up on the rich mineral treasures found beneath its soil, and including iron, copper, lead, zinc, sulphur, antimony, etc. Cap. Munster

including iron, copper, tead, zinc, suspinit, animalony, etc. Cap. Munster.
West Pittston, bor. in anthractic coal regn, Lackawanna co., Penn. U.S.A.; p. 6,246.
West Point, military stm. (seat of the U.S. Military Academy), Orange co., New York, U.S.A., on W. bank Hudson R.

[Westport B., p. 4,450.

West Point, military 2th. (seat of the U.S. Military Academy), Orange co., New York, U.S.A., on W. Lank Hudson R.

[Westport B., p. 4450.
Westport, inkt. and spt. [Vestport B., p. 4450.
Westport, inkt. and spt. [Vestport B., p. 4450.
Westport, inkt. and spt. 2 co. Mayo, Ireld., on West Prussa, prov. P., adjag. Balic and Rusan.
Poland; area 9.26 sq. m., p. 1500.00. Divided into the govts. of Marienwerder and Dantzle (p.v.).
West Raudolph, vvl. nr. Montpeller, Orange co., Vermont, U.S.A., p. 3,120.
Westray, one of the Urkney Isls., 23 m. by sea from Kirkwall, Scotl.; to m long; p. 2,200.
West Russia, part of the Czar's domain comprise the govts. of Grotino, Molillev, Vilma, Viltebak, Kovno, and Minsk (p.v.).
West Russia, part of the Czar's domain comprise, the govts. of Grotino, Molillev, Vilma, Viltebak, Kovno, and Minsk (p.v.).
West Russia, part of the Czar's domain. Viltebak, Kovno, and Minsk (p.v.).
West Troy, now Watervilet (p.v.).
West Troy, now Watervilet (p.v.).
West Troy, now Watervilet (p.v.).
West Tritestam.—See Turkestam.
West Virginas, an E. central st. U.S.A., bounded by the R. Ohlo, the Alleghany Mins., Virginia, Maryland, Kentucky, and Penn.; area 24,760 sq in; coal, sait, petrol; agr. and grazg; p. 1590,000 (rapidly increasg.). Cap. Wheeling. The Appalachian coal-field extends over nearly the whole of the State, which ranks fourth among the States in its coal output. Of its many anineral springs the White Sulphur Springs are the most famous. Until the Northern and western counties, which had remained loyal to the Federal government, were constituted the State to Resel.

Westward Ho, picturesque est. vil. Bideford B., Devon, Eng., p. 5,864; Military coll. The name is derived from Charles Kingsley's well-known romance. There are excellent bathing opportunities, and there

Westwood, £ in mining dist. nr. Rockhampton, Queensland, p. 8,644. Watheral, £ on R. Eden, nr. Carlisle, Cumberde,

Wetherby, mkt. t. on R. Wharfe, W.R. Yorks, Eng., p. 2,416.

Wettin, industri. t. on R. Sazie, nr. Schwarzburg. Wetter, or Wettern, L. Sweden, sg. m. S.E. L. Wener (g.v.); area 733 cg. m., part of an extensive canal system; nr. S. end is the picturesque isl, of Vising (fs. m. by sm.) with rulned palace. Over ninety small tributaries run into it. Its waters, which are of a beautiful green, are noted for their irregular risings and fallings, and for corresponding variations in the weather. weather.

Wetteren, L in Belgium, nr. Chent, on the R. Scheldt; textile manuf. p. 16,112. Wetterhorn, famous peak of Bernese Oberland. Switzerland, all. 12,155 ft., 10 m. S.E. of the L. of

Wetzlar, f. on R. Lahn, nr. Coblentz, Rhenish Prussia; in iron-mining regn.; once an impl. t. and seat of the Supreme Court of the Empire; cathed, ruined medieval castle, p. 9,83. The scene of Goethe's Sorveus of Worther is laid in Wetzlar.

Wexford, maritume co. of prov. Lemster, S.E. Ireland; westord, maritune 6.0 of prov. Leinster, s. E. Ireland, area got s. m., pasture, tillage, darryg., stock-kpg., fishery, p. (falling) 102,289. There is only one hill of any particular height, and that is Mount Leinster, on the border, 2,5to ft. The Slaney is the chief river, and empties itself into sea through Wexford harbour. There are valuable fisheries. Several old castles survive, as well as the monasteries of Dun-brody, Tintern, and Ross. Cap. W., t. on R. Slaney, p. 22,455. Some of the old fortifications and part of p. 13,465. Some of the old fortifications and part of St. Selsker's priory remain. Cronwell took the town in 1644. In the insurrection of 1708 many serious town in 1644 in the large both in Wexford city and in disturbances took place both in Wexford city and in

other parts of the country.

Wexiô, or Vexió, ¿ on L. Sodre, Kronoberg, Sweden;
13th cent, cathedl, (lately restored), royal palace and

sight cent, cathedl, (lately restored), royal palace and castle (mined), p. 7,546.

Wey, R. Hants and Surrey, Eng.; trib. (35 m.) of R. Weybourne, per. of Norfolk, on the cst., 13 m. E.N.E. of Walsingham.

Weybridge, per. on R.'s Thames and Wey, Surrey, Weymouth industri. L. (boot and shoe manuf.) Norfolk co., Mass., U.S.A., p. 11,642; also pt. on St. Mary's B., co. Digby, Nova Scotia, p. 1,886.

Weymouth and Melcombe Regis, bor, and web, co. Weymouth B. Dorset Eng., p. 22,235. The two

Weymouth and Melcombe Regis, bor. and wat. pt. on Weymouth B., Dorset. Eng., p. 22,375. The two quarters of the town are separated by the Weywhich, after broadening into a tidal "Backwater," makes its way to the sea. Old Weymouth is on the S., and modern Melcombe Regis facing the bay, less to the N. In olden tunes they were separate boroughs, and each returned two members to Parlament until 1829, when they were constituted one candon't borough, returning two members between them. The two towns are counceted by a bridge erected in 1881. Weymouth attained great popularity through the frequent visits of George III. Thomas Love Peacock was a native.

Whalley, wt. of Lancashire, on the Caider, 3f m. S. by W. of Clitheroe; has a ruined Cistercian Abbey (1896).

[area 2 180, m., p. (about) 1,000.

by W. of Cittheroe; has a ruined Cistercian Abbey (1796).
[area 7t sq. m., p. (about) 1,000.
Whaisay, a Shetland 1st., 13t m. N.N.E. of Lerwick, Whangarei, t. at mth. of W. R., New Zealand; farmg. and fruit growg., p. 2,140.
Whangarea, t. nr. Auckland, New Zealand; mining Whangarea, t. nr. Auckland, New Zealand; mining Whangare, R. W. R. Yorks, Eng., flows 60 nt. to R. Ouse, and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of

nr. Cawood. [Eng., p. 384.]
Wharracliffe, colly. vil. 6 m. N.W. Sheffield, Yorks, Wharton, township, nr. R. Weaver, Cheshire, Eng.; salt works, p. 4.104.
Whattoner, industri. f. Keokuk co., \$50x, U.S.A.,
Whattoner, f. nr. Fairhaven, W. co., Washington, U.S.A.; eroof tr. p. 5.0x4.

U.S.A.; good tr., p. 5,914.

Wheeling, c. on R. Ohio, cap. of W. Virginia, U.S.A.; gt. rly. and riverside commcl. centre, iron and steel

manni, p. 40,118. [alt. 2,414 ft. Whesnalde, min. nr. Ingleton, W.R. Yorks, Eng., Whickham, industri. f. nr. Gateshead, Durham, Eng.,

p. 18,332. Whitelet, colly. f. ar. Coatbridge, Lanarksh., Scotl.,

Inippingham, vil. Isle of Wight (in wh. is situate the feather marine Royal res., Osborne House, given

by King Edward VII. to the British nation on his cornation. Whitburn, cst. psr. nr. Sunderland, Durham, Eng., p. 2,84; also burgh on R. Almond, Linikhgowah, Scott, p. 2,675.

Scott, p. 1,1975.
Whitby, pt. and user, pt. facing the German Ocean, at mth. of R. Esk, N.R. Yorks, Eng.; fisheries, jet manuf, shipbidg, immous abbey, p. 12,193. The two sides of the town stand on either side of the two sides of the town stand on either side of the harbour, with a stone bradge, with a swivel, connecting them. The older portions of the town are on the east side, and comprase a number of steep, narrow streets, rising to the heights above, on which stands the old parish church of St. Mary and the ruins of St. Hillda's Abbey, the latter founded in the rich century, and after being destroyed by the Denes in 86 was refounded in rore as a Benedictine Abbey for monks. The church is of Norman origin, and is approached from the town by a stone stairway of nearly 200 steps. Captain Cook was a native.
Whitby (formerly Windsor), t. on L. Outario, Cm.;

Walts, hearth of the R. Arkansas, U.S.A., trib. (320 m.) of R. Arkansas, U.S.A., trib. (320 m.) of R. Taif, Glamorgansh, Wales, nr. Llandaff.

nr. Liandaff.
White, R. Arkansas, U.S.A., trib. (350 m.) of R.
Mississippi; also R. Indiana, U.S.A., trib. (350 m.)
of R. Wabash.
[R. Tweed.
Whiteadder, R. Berwicksh., Scotl.; trib. (34 m.) of
Whiteadapa, E. dist., of London, Eng.; industri.,
mostly in the Tower Hamlets; p. 34, str.
White Creek, svi. nr. Troy, New York, U.S.A.; p.
Whitefield, L. nr. Tewkesbury, Gloucestersh., Eng.;
industri. v. 6,667.

Whitefield, L. nr. Tewkesbury, Gloucestersh., Eng.; industri.; p. 6,967.
Whitehall, f. at head of L. Champlain, Washington co, New York, U.S.A.; p. 5,240; timber tr.
Whitehaven, r. in Egremont div., Cumberland, Eng.; iron-ore smelting, coast tr.; p. 19,048. The prosperity of Whitehaven has resulted from the possession of valuable local deposits of coal and iron-ore, which have provided the means for the successful carrying on of many industries, including ironworks, iron-shipbuilding, collieres, iron-mines, etc. The harbour has a wet-dock of 5 acres. Paul Jones attacked Whitehaven in 1778. Whitehaven in 1778.

Whitehaven in 1378.

White Horse, the name given to the figure of a horse cut out on a hillside by removing the turf from the surface. Several of these exist in various part of the country, the largest being at Uffington, Berkshire. It measures 355 feet in length, and can be seen for many miles. There are other white horses at Bratton Hill, Westbury (g.v.), Cherhill, Marborough, and Pewsey.

Whitekirks, par. on the Haddingtonshire cst., possessing a church once a great resort of pilgrims, 44 m. S.E. of North Berwick.

S.E. of North Berwick.
White Mins., part of the Appalachian systems, New Hampshire, U.S.A.; highest summit, Mt. Washington, 5,805 ft.
White Plains, t. Westchester co., New York, U.S.A.; residentl.; here in 1776 Cenl. Howe defeated the American forces; p. 9754.
White R., rises in Arkansas and flows through that state and Missouri to the Mississippi near the mouth of the Arkansas; has a course of 800 m., 300 of which are navigable.

of the Arkansas; has a course of soom., 300 or which are navigable. White Sea, of of Archangel, inlet of the Arctic Oc., N. Russia, area 47,346 sq. m. It is frozen over from early September to late May, and has direct communication with the Dnieper, the Volga, and the Black and Caspian Seas.
White Sulphur Springs, a wet. \$1. of West Virginia. Whitewater, vii. Wisconsin, U.S.A., nr. Milwaukee;

Whitewater, vil. Wisconsin, U.D.A., M. S. S. L., D. J. Geo; D. A., D. L., B. S. Witthows, royal Duryh Wigtownsh., Scotl., p. J. Geo; S. M. N.W. of the lale of Witthow, and 189 m. S. of Wigtown. St. Ninian founded a church here in 397, and was buried here in 428. At one time it was beset of a bishopic, the see of Galloway, an did priory being made the cathedral, which was much resorted to by pilgrims.

Whittiria, vil. nr. Leeds, W.R. Yorks Rag., industri.; p. 3459.

Whitley, cst. vsl. on Whitley B., ar. North Shleids, Northumberland, Eng.; p. 8,978. Witney Min., a pask of the Sierra Nevada, California, U.S.A.; alt. 14,898 ft., Whittstable, 59t. and cst. rest., ar. Canterbury. Kent, Eng.; famous for its oysters; p. (of par., includg. Sensator) 7,984.

Whitting tame, per. in Haddingtonshire, 3 m. S.S.E. of East Linton; includes the seat of the Rt. Hon.

v manang con, or Whittington Moor, colly, tauaska, n. n. Chesterfield, Derbysh., Eng.; p. 17, 218.
Whittlesse, or Whittlessea, mkt. A. Cambridgesh, Eng.; p. 4, 412.
Whitwolck, industri. A. nr. Loughborough, Leicestersh, Whitwood, A. (mltg.) nr. Fontefract, W.R. Yorks, Eng.; p. 5, 578.
Whitwork, industri. A. nr. Rochdale, S.H. Lancash, Whydab, cst. 4. Dahomey, on lagoon nr. W. cst. Africa; under French ind.; p. 15,000.
Wichita, R. Texas, U.S.A.; flows 205 m to the Red. Clay Co.; also t. in the Arkansa valley, Kansas, U.S.A.; meet-packing centre m agr. and stock-raising repn.; p. 8,2480.

U.S.A.; meet-packing centre in agr. and stock-raising regin; p. 52,450.
Wick, 19t. and 5017th, Caithness, Scotl.; herring fisheries centre, one of the Wick parly, burghs, p. 9,086. The royal burgh, with its pleasant suburbs of Louisburg and Pultneytown, stands on the south bank of the Wick River.
Wickham, sub. of Newcastle, N.S.W.; industl., p. Wickham Market, t. on R. Deben, Suffolk, Eng., p. 1,584.

Wickham Market, f. on K. Deuen, Sunous, Eng., p. 1,584.
Wicklow, marnine co., Leinster prov., Ired., on E. cst. S. of Dublin; area 78: sq. m., pastoral and agr., p. 60,003 (decreasg.) princ. peasantry: the Wicklow mountains attaut their highest point in Lugnaquilla (3,03) foet), and their slopes reveal many beautiful glens, including Glendalough, Glendalure, Imail, the Glen of the Downs, and Avoca. Hesides the Liftey and the Slaney, both of which rise in Wicklow, there are numerous ricturesque mountain streams, and and the Slaney, both of which rise in Wicklow, there are numerous picturesque mountain streams, and several beautiful lakes, though small; chf. t.'s W. (cap.) Bray, and Arklow (q.v.). (Sudbury, p. 963, Wickwar, t. in Gloucestershire, 4 m. N. of Chipping-Widdin, fort. t. on R. Danube, Bulgaria; runed mosque and palace, p. 15,118.
Widnes, t. on R. Mersey, Lancs, Eng.; manuf., p. 95,456. Was incorporated in 1902, and has industries of iron. copper, soda, candles, soap, manures, etc. 13 m. E.S.E. of Liverpool.
Wied, sm. R. Germy, johns R. Rhine at Neuwild; also name of former countship of German Emp. situate in this dist.

situate in this dist.

situate in this dist.

Wieliczka, salt mining t. nr. Cracow, Austra. Galicia; celebrated subterranean chapels, with altars and ornamentatn. in rock ault, p. 6,015.

Wielun, t. nr. Kalisza, Russa. Poland; industril, p. Wiener Neustadt, Lower Austria.—(See, Neustadt, Wieringen, ist. and t. in Zuyder Zee, N. Holland,

Wieringen, ist. and t. in Zuyder Zee, N. Holland, p. 2,869.
Wiesbaden, t. and pop. wat. pt. on S. slope of the Taunus, Hesse-Nassau, Pruss.; minl. baths (vis. by 120,000 persons annually), many fine bldga. p. 170,000.
Known in Roman times, it later obtained ill-repute as a gambling place, but is now a prosperous health resort. It has many hot springs, the principal one being the Bolling Spring, 136° F. The chief buildings are the palace (1420), the Kursal (1870, townhall (1888), and a Greek chapel (1885) built by the Duke of Nassau as a musoleum for his wife.
Wieselburg, t. on breh. of R. Danube, nr. Pressburg, Hungary, p. 6,266.

Wieselburg, t. on brch. of R. Danube, nr. Pressburg, Hungary, p. 5, 25.6.
Wigan, t. S.W. Lanca. Eng.; cotton and iron infig. centre in colly, dist., p. 39, 771. Standing in the centre of a great coatheid, it has been able to play a considerable part in the development of the Lancashire industries, and has Iron foundries and rallway-wagon works, cotton factories, paper mills, etc., besides doing a large trade in coal. The Ruyalist Earl of Derby occupied the town in 16a, but it was twice taken by the Parliamentrains, and in 1651 Lord Derby was defeated by Lilburne. Leland the antiquary was a native of Wigan.
Wight, Iale of, Eng. Chan, included in co. Hants;

area 146 sq. m. undulating and agr. with numerous wat. places all round the isl.; the Romans had stations at Carisbrooke and Bradling. It came under Saxon rule in the seventh century, and after the Norman Conquest was granted first to the Fitzosbornes and later to the Rodvers family, who held it until it passed into the hands of the Crown in 1299. Fror to 1893 the island returned six Mombers of Parliament, two each for Newport, Yarmouth, and Newtown; now it only returns one Member for the whole island. Newport (p.w.) is the ch. t., Cowes (p.w.) princ. port, p. 88,193.

Wigton, mkt. 4. of Cumberland, with manuf. of woollens, 112 m. S.W. of Carlisle, p. 3,697.
Wigton, to West Gallowayi, maritime co. on Irish Sea, S.W. Scott.; area 485 sq. m.; oatts wheat, agr., dairying, p. 31,990 (decreasg.). Cap. W., on W. Bay; fishery, p. 1,368.

Wilcania, twistap, on Darling R., N.S.W., in pastoral dist., p. 2,140.
Wilderness, swampy regn. N.E. Virginia, U.S.A., S. of theakapidan; scene of fierce but indecisive fighting American Civil War, 1864.
Wilhelmahaven, naval stn. of the Germ. Emp., fort in Jahde terr. on the N. S. nr. Bremen; also sea bathg. rest., p. 95,50. Inaugurated by King William I. in 1869, it has since been developed and defended until it forms a fortress of the first order, with forts, moles, dry-docks, and stores of vast extent. extent.

extent. Wilkesbarre, c. on R. Susquehanna, Luzerne co., Penn., U.S.A.; in anthracite coal, regn., p 67,105. Wilkinsburg, bor. Allegheny co., Penn., U.S.A., subu. to Pitrsburg, p. 14,124. Willemstad, cap. Curaçoa, Jutch W. Indies, p. 10,824. Willemstad, cap. Staffs, Eng., nr., Wolverhampton.

p. 18,858. [industri, p. 154,857. Williesden, N.W. sub. London, Eng.; resideutl. and Williamette, R. Oregon, U.S.A., trib. (300 nl.) of Columbia R.

Columbia R.
Williamsberg, c. (collegiate) of James City co.,
Virginia, U.S.A.: former st. cap., battle 1862, p. 2, 214;
else vil. Hampshire co., Mass., U.S.A., p. 4, 124. The
Williams and Mary College (1693) is here.
Williamsport, c. on Susquehanna R., Lycoming co.,
Penn., U.S.A., rly. centre, timber tr.; p. 31,860,
70 in. N. of Harrisburg.
Williamstown, portur. Melbourne, Victoria; shipbldg.
p. 14,516; also vil. ur Greenville, S. Carohna, U.S.A.; p. 24,526; also vil. ur Greenville, S. Carohna, U.S.A.;

p. 14,510; 2450 vii. ir Greenvine, S. Carolina, U.S.A.; p. 3,120.

Willimantic, c. on R. W., Windham co., Connecticut, U.S.A.; thread and textile factories; p. 9,225.

Willington, handle, in colly, dist, co. Durham, Eng.; nr. Bishop Auckland; p. 8,724.

Willington Quay, t. on R. Tyne, Northumbld., Eng.; nr. North Shields: p. 9,246; industri.

Williton, a L. of Somerset, 14 m. N.W. of Taunton;

p. 1,204.
Willoughby, sub. of Sydney, N.S. Wales, 5 m. N. of the city; contains numerous factories and market

the city; contains numerous factories and market
Willunga, tems.ty. nr. Adelaide, S. Australia, p. z.,443.
Willungaton, con Delaware R., Newcastle co.
Delaware, U.S.A.; shipbidge, tron foundries, machinefactories; p. 8y,200; also c. on Cape Fear R.,
Hanover co, N. Carolina, U.S.A.; was chief Confederate port during the civil war; gt. tr. in cotton;
timber, and naval stores; p. 2,564.
Wilmalow, industri. t. on R. Bollen, nr. Stockport,
Cheshire, Eng.; p. 8,153.
Wilsden, t. nr. Bradford, W.R. Yorks, Eng.; p. 2,958.
Wilsden, t. nr. Bradford, W.R. Yorks, Eng.; p. 2,958.
Wilsden, t. nr. Bradford, w.R. Yorks, Eng.; p. 2,958.
Wilsden, t. nr. Bradford, w.R. Yorks, Eng.; p. 2,958.
Wilsden, t. nr. Bradford, w.R. Yorks, Eng.; p. 2,958.
Wilsden, t. nr. Bradford, t. Stockport
into Bass Strait.
Wilton, old mile. t. Wilts, Eng., nr. Salisbury: carpet
manul.; p. 2,124. Former capital of Wessex and the
seat of a bishopric audit 1909; it was at Wilton House
here, the mansion of the Earls of Penbroke, that
Sir Philip Sidney wrote a portion of his Arcadia.
Wiltshire, S.W. taland co., Eng., N. of Hants and

Dorset; area 1,334 sq. m.; agr. and pastoral; p. 385,876. It is chiefly an agricultural county, and the Caine district is famous for its Wiltshire bacon. At s66,9%. It is chiefly an agricultural county, and the Caine district is famous for its Withshire bacom. At Bradford and at Trowbridge the manufacture of broadcioth and carpets have long been carried on Witishire was occupied by the Romans, and the defeat of the British in 25 at Old Sarum by the Saxons was the first important victory of the latter. Cap. Sallsbury.

Wimbledon, L and residtl. dist. Surrey, Eng., a S.W. sub. of London, with famous common; p. 5,45%. Wimblene, or Wimborne Minster, mkt. L nr. Poole, Dorset, Eng.; p. 3,712. A nunnery was founded here about 705, which Edward the Confessor converted into the minster, with its fine central and west towers, and containing the tomb of Etheired I. Wimmeria, N.W. dist. Victoria, Australia; area 25,000 sq. m.; pastoral.

Wimplen, L nr. Hellbron, Hesse, Germy., on R. Neckar; battle röze; p. 2,842. [Africa; p. 2,316. Winsanton, mkt. L nr. Clastonbury, Somerset, Eng.; p. 2,653. https://dx.doi.org/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001

Wincaston, mkt. 2 m. Glastonbury, Somerset, Eng.; p. 3,632.

Winchcomb, mkt. 4 nr. Cheltenham, Gloucster, Eng.; Winchcomb, mkt. 4 nr. Cheltenham, Gloucster, Eng.; Winchelsea, anc. 2 nr. Hastings, Sussex, Eng.; Gomerly an import, walled spl.; p. 1,14. Old Winchelsea tood 3 m to the S.E., but in 128, was submerged by the sea. Edward III. built New Winchelsea, three of the gateways of which, and parts of a Franciscan monastery, still remain. 1,242. Winchendon, vd. nr. Worcester, Mass., U.S.A.; p. Winchester, c. on R. Itchen, Hants, Eng.; anc. cap. of the Saxons; fine cathedli, college, barracks; formerly famous for woollen manuf.; Worchester College was founded by William of Wyksham, in the tath centry, much of the original edifice still remaining. The hall is 53 ft. long. The hospital of St. Cross, a mile distant from the city, was founded by De Blois in 173, but rebuilt later by Cardinal Beaufort; p. 23, 360. From the 8th to the 13th contury Winchester almost rivalled London in civic importance. King Alfred was educated here and readed Winchester almost rivalled London in civic importance. King Alfred was educated here and resided here, founding the "New Monastery," later called St. Grimbald's. William the Conqueror had a palace at Winchester. In the monastory rebuilt inphe zzh century, and here, in 1867, were discovered the bones of five persons, supposed to be those of King Alfred, his queen, two sons, and St. Grimbald. Henry III, was born in the castle. Cromwell took the castle and city in 1645. The large hall, 120 ft. long, and one of the towers of the castle are all that remain of the castle. Here Charles II, had a red brick palace (now a barrack). The cathedral contains the tombs of Rufus, Cardinal Beaufort, Wykcham, Wayneffete Gardiner, Lezak Walton, Jane Austen, and many others of note.

Winchester, 6, on Mad R., Litchfield co., Connecticut.

Gardiner, Izaak Walton, Jane Austen, and many others of note.

Winchester, con Mad R., Litchfield co., Connecticut, U.S.A.; cutiery manul.; p. 8,300. Also t, in Blue Grass; agr. and stock-raising region, Kentucky, U.S.A.; gar, and stock-raising region, Kentucky, U.S.A.; p. 6,744. Also t. in Middlesax co., Mass., U.S.A., subn. to Boston, p. 8,514. Also c. in the Shesandosh valley, Virginia, U.S.A.; Sheridan's victory over the Confederates, 1864; p. 5,200.

Windau, Russian 1964 in Courland, 120 m. N.E. of Memel, p. 8,000.

Windau, Russian 1964 in Courland, 120 m. N.E. of Memel, p. 8,000.

Windermere, largest Eng. L. (roj m. long, 1 m. wide, in Westmorland and Lancs, outlet to Morecambe Bay; also sml. t. on E. shore of L., p. 5,467.

Windham, wid. nr. Nowvich, W. co., Connecticut, U.S.A.; p. 8,944; industri.

U.S.A.; p. 8,944; industri.

U.S.A.; p. 8,945; industri.

U.S.A.; p. 8,945; industri.

U.S.A.; p. 8,945; industri.

U.S.A.; p. 8,945; industri.

Vindadin, h. R., Shore of L., p. 5,467.

Windham, wid. nr. Nowvich, W. co., Connecticut, U.S.A.; p. 8,945; industri.

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U.S.A.; p. 8,945; industri.

U.S.A.; p. 8,945; industri.

U.S.A.; p. 8,945; industri.

U.S.A.; p. 8,946; industri.

U.S.A.; p. 8,946; industri.

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U.S.A.; p. 8,946; industri.

U.S.A.; p. 8,946; industri.

U.S.A.;

Garter. There are extensive cavalry and infantry barracks in the town; Cumberland Lodge, Frogmore,

Garter. There are extensive cavalry and infantry barracks in the town; Camberland Lodge, Frogmora, and Windsor Forest are near, and old Windsor is an adjoining par, while Etc., and old Windsor is an adjoining par, while Etc. (g.w.), across the R. in Bucks, is included in the parly, limits.
Windsor, c. and sort on the Detroit R., Ontario, Canada; opp. Detroit c.; bicycle and machinery works; pl. 18,115. Also t. on Connecticut R., Hartford Co., Conn., U.S.A.; industri, p. 3,017. Also spt. on Minas Bay, Nova Scotia (contains King's College), p. 3,652. Also bor. on Hawkesbury R., nr. Sydney, N.S.W., p. 2,834.
Windward Isla, Crown col., Gt. Brit., in the West Indies, comprising S.E. portion Lesser Antilles (St. Vincent, Grenada, Grenadines, Toblago, and St. Lucia; all of which see separately); total area 664 sq. m. assayer, channel (60 m. wide) between Winestrand.

Luca; an or which see separately; total area 664 sq. m.
Windward Passage, channel (60 m. wide) between Winestead, par. in Yorks, 124 m. E.S.E. of Hull.
The birthplace of Andrew Marvell.
Winfield, c. on R. Walnut, Cowley co., Kansas, U.S.A.; collegiate and commercial centre in agr.

dist ; p. 6,014. (industri.; p. 6,558.

O.S.A.; collegate and commercian centre in agriculst.; p. 6,674.
Wingate, township Durham, Eng., nr. Hartiepool;
Wingdeld, par. in Suffolk, near Harleston. There is an ancient castle here built by the De la Poles.
Wingdeld, South, par. in Derbyshire, near Alfreton. It was at Wingdeld Manor House where Mary Queen of Scots was imprisoned.
Wingham, t. in farming dist., N. of Sydney, N.S.W., p. (dist.) 7,042.
Winnebago, L. nr. Milwaukee, Wisconsin, U.S.A., 27 m. long, outlet by Fox R. into Green Bay.
Winnipeg (formerly Fort Garry), cap. of the province of Manitoba, Can., at juncts of Red and Assinitione RS.; the principal commercial centre of the Canadian N.W.; p. 126,000, immerse wheat export. Incorporated in 1873. Is a substantially built modern town, with wide streets, trainways, electric light, etc. It has the university of Mautoba, Cooremment offices, city hall, and huge gram-elevators and flourmills.

Winnipeg, L. Canada, 40 m. N. of Winnipeg c., 250 m. long, 25 m. to 50 m. wide; contains several large isls. (Reindeer, 70 sq. m., 18g Isl., 60 sq. m.); receives the waters of the Winnipeg R. (flows 200 m. from the L. of the Woods), the Red R., and the Saskarchewan R.; discharges by the Nelson R. to Hudson Bay. Winnipegosis, L. of Manitoba and Saskatchewan, Canada; area (exclusive of isls.) 2,000 sq. m.; 50 m. W. of L. Winnipeg, into which it empties.

W. of L. Winnipeg, into which it empties.
Winniplescopes L. nr. Concord, New Hampshire,
U.S.A.; noted for its beautiful scenery; 24 m. long;
empties by the W. R. into the Merrimac.
Winonas, c. on the Missispipi R., Minnesota, U.S.A.;
rly, centre, tr. in corn and timber; p. 20,494.
Winosoki, or Onion R., Vermont, U.S.A., flows (90
m.) to L. Champlain; also Winosoki Falls, vil of
Chittenden co., Vermont, on W. R.; p. 364.
Winschoten, industri. c. nr. Gröningen. Holland, p.
2864.
Winschoten, industri. c. nr. Gröningen. Holland, p.
2864.
Winsford, c. on R. Weaver, nr. Northwich, Chesh.
Winsford, r., 280.
Winster, vil. of Derbyshire, 4 m. W. by N. or Matlock; p. 800.

lock ; p. 800.

lock; p. 8co.

lock;

p. 25,000. [Humber, p. 1,426.] Winterton, mkt. & Lincolnah., Eng., nr. Barton-on-Wipper, R. Prussn. Saxony, trib. (50 m.) of R. Un-

strut; also another R., Prusan. Saxony, trib. (40 m.) of R. Saale; also R., Westphalia, flows (50 m.) to R. Rhine, nr. Cologne. [Industri.; p. 6,242 witperfürth, & Rhenish Prussia, 3 m. N.E. Cologne; Wirksawerth, & in Derbysh., Eng.; lead mining; p. 388. Wirtal, industri. estat of Dee and Mersey. Wirral, industri. estat. W. Cheshire, Eng., between Wisbech, or Wisbech, & on R. Nene, lale of Ely, Cambridgesh., Eng.; exports coal; p. 10,828. The parish church is interesting and has a fine tower. A castle, founded by the Conqueror in 107s, rebuilt by Bishop Andrewes, again rebuilt by Cromwell's secretary, Thurloe, from designs by Inigo Jones, was kept up until 286, when it was finally demolished. Many Catholic recusants suffered imprisonment in the castle under Elizabeth. Wisby, old 286. Gothland isl., W. est. Sweden; cathedi, many antiquities of the Stone, Bronze, and Iron Ages; p. 8, 500. During the 10th and 17th centuries it was one of the leading commercial cities of Europe, and a principal centre for the operation of the Hasseatt League. Its prosperity was lost, however, in 130th, when Valdemar III., of Denmark, took possession of it. The ancient walls and towers are still standing.

possession of it. The ancient walls and towers are still standing.
Wisconsin, R. intersecting st. same name, U.S.A.; trib. (600 m.) of R. Missussippi; also N. centl. st. U.S.A., adjng. L. Superior and L. Michigan; area 56,040 sq. m., agr., land and rolling prairie, dock-krgu. corn-growing, timber tr., and mining; admitted as a State in 1948; p. 2,350,000. Wisconsin contams some 2,000 small lakes, the largest of which is Winnebago, 38 m. long and 10 m. broad. Nearly half a million people are engaged in agriculture in the State. It has twice suffered from devastating forest fires—in 1973 and 1894—000 rt. 3,000 lives being the State. It has twice suffered from devestating forest fires—in 1871 and 1894—over 1,000 lives being lost in the 1871 fire. From 1762 to 1812 Wisconsin was under British control; was formed into a U.S. territory in 1836, and extended to the Bakotas, but the Mississippi was made its Western boundary in 1836; was admitted a State in 1846. Capi Madison(y.v.). Wishaw, burgh Lanarksh., Scotl., nr. Glesgow; railway works, engineering and other factories; p. 25,265, Wiske, R. N.R. Yorks, Eng., trib. [24 m.] of R. Swale. Wismar, forfid. 324. on the Baltic, Mcklenburg-Schwerin, Germany; the Fürstenhof, a former ducal residence, dates from the 18th century; and four

schwerm, Germany; the Furstennor, a former ducar residence, dates from the 14th century; and four gates of the old town remain; good trade; p. 21,816. Wissembourg, a mfg. 4: in Lower Alsace, 42 m. N.N.E. of Strassburg; provious to 1871 a French fortified town near the frontier of the Bavarian palatinate. At this spot, on the 4th Aug., 1870, occurred the great battle between the French and German armies, resulting in the first important victory of the latter. of the latter.

Witham, R. Rutland and Lincs., Eng., flows (80 m.) to the Wash; also t. nr. Chelmsford, Essex, Eng;

Witham, R. Rutland and Lincs., Eng., flows (80 m.) to the Wash; also t. nr. Chelmsford, Essex, Eng; agr. centre; p. 3.642.
Withernesa, coast bathing **exort*, E.R. Yorks, Eng., nr. Patrington, p. (residt. dist.), 2.279.
Withington, industri. £. S.E. Lancs. Eng., within parly. Imits of Manchester; p. 38.614.
Witkowitz, mining £. in dist. Mährisch-Ostrau, Moravia, p. (mainly German) 2.125.
Witteas Bay, p. (mainly German) 2.125.
Witteas Bay, shing **settlement*, Newfoundland, nr. St. John's, p. 3.514.
Witteay, mkt. £. in Woodstock div., Oxfordsh., Eng., blanket and glove factories; Witney blankets have long been famed; p. 3.530.
Wittea, £. on R. Ruhr, Westphalia, nr. Arnsberg; iron, glass, and machinery manuf.; p. 26,555.
Witteaberg, fortfd. £. on R. Elbe, Prusan. Saxony; castle-church, textile factories, flower cultivaton; p. 20,124. Luther, Melancthon, Frederick the Wise, and John the Steadfast lie buried in the Schloss-Kirche, which was restored and repensed in 1892.
Witteaberge, £. in Potsdam Govt., prov. Brandenburg, Prusa:; ine bridge over R. Elbe; woollen cloth manuf.; p. 18,015.
Witteaberg, £. on Coldbach R., S. Bohemia, Austria; artificial fish culture, beer brewing, etc.; p. 5,570.
Witteadand, former ferv. German E. Africa, now Brit. protectorate, at mouth of Tanu R.; area 1,200 sq. m., p. 25,000.

Witwatersrand, gold-mining dist. Transval Col., Brit. S. Africa, W. of Johannesburg. Wiveliscombe, mkt. s. nr. Taunton, Somerset, Eng.,

p. 1,316. Wivenhoe, t. on R. Colne, Essex, Eng., p. 2,416. Wiseinslawow, t. (manuf.) Russian Poland, govt.

Wistisawow, h. Maries Suvalki, p. 10,114.
Wioclawek, or Wioclawak, industri. f. on R. Vistula, Russn. Poland, govt. Warsaw, p. 22,718. [p. 8,102. Wiodawa, f. nr. Steller, Russn. Poland, govt. Lublin, Wiodawa, f. nr. Steller, Russn. Poland, govt. Lublin, Vistaburn. rokt. f. Bedfordsh., Eng.; near is Woburn. Wodawa, 2 nr. Stedlec, Russn. Poland, govr. Lublin, Woburn, mkt. A. Bedfordsh., Eng.; near is Woburn Abbey, seat of Duke of Bedford; nothing now remains of the original abbey; p. 1,450.
Woburn Centre, c. Middlesex co., Mass, U.S.A., nr. Boston; boot manuf; p. 14,850.
Wodehouse, dr. Cape Colony, Brit. S. Africa, E. of Aliwal, N.; area 2,849 sq. m., p. 28,116. Chief t. Dordrecht.
Wodehouse, dr. Victoria, 186 m. N. F. Midhevree, n. N. Colong, dr. Victoria, 186 m. N. F. Midhevree, n.

Wodonga, t. in Victoria, 187 m. N.E. Melbourne, p. Woerden, t. on the Old Rhine, S. Holland, formerly

Woerden, L. on the Old Rhine, S. Holland, formerly fortfd., p. 4,554.
Woking, mkt. L. on R. Wey, nr. Guildford, Surrey, Eng., convict prison, necropolis, and crematorium; p. 24,850.
Wokingham, mkt. L. nr. Reading, Berks, Eng., p. 4,353; municipal borough of Berks (until 1839 Williams) and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

p. 8,162. Woldenberg, & nr. Frankfort-on-the-Oder, Pruss., in-

Wolds, The, chalk range of hills in Lincolnsh., Eng.; pastoral; 45 m. long; also agr. and grazing dist. E.R. Yorks, Eng., extending 35 m. from the Humber estuary to Flamborough Head.

wary to riamporough Head.
Wolfborough, vil. New Hampshire, U.S.A., on Lake
Winnepiseogee, p. 3,024. [Lawrence, Canada,
Wolfe Ial, in Lake of the Thousand Isles, River St.
Wolfenbuttel, t. in Duchy of Brunswick, Germy,
mchny, manuf.; gdng., fruit preservg.; p. 20,056.
Lessing had charge of the old library here, which

Lessing had charge of the old indrary here, which contains over 30,000 volunies.

Wolf Rock, 8 m. S.S. W. of Land's End, where a lighthouse, 1164 ft. high, has been erected.

Wolfville, 39t. on Minas Bay, Nova Scotia, p. 1,014.

Wolgast, 59t. on R. Peene, Pomerania, Pruss.; formly, forthfied; prominent in Thirty Years' War; cement manuf, amber working; exports wheat and chemicals: n. 84cc.

manul, amber working; exports wheat and cals; p. 8,400.
Wollaston, Lake (50 m. long), N.W. Territory, Brit. N. Amerca; outlet to Mackenzie R.
Wollin, £6.1 in the Baltic, prov. Pomerania, Pruss, (22 m. long; sep. from Usedom isl. by the Sevine; also spt. t. on R. Divenow, isl. of Wollin, p. 5,450. [24,54. Wollombi, £. 170 m. from Sydney, N.S.W.; p. 1916. [24,54. Wollombi, £. 170 m. from Sydney, N.S.W.; p. 1916. [26,944. Wollsingham, £. on R. Wear, co. Durham, Eng., p. Wolstanton, United, manul. dist. adjng. Stoke, co. Staffs, Eng., p. 27,341. Wolverhampton, £. in. Staffs, Eng., 12 m. N.W. Birmingham; "the metropolis of the Black Country"; ironwks., locks, keys, mchny, and tools, zinc and ironwks., locks, keys, mchny, and tools, zinc and

Volvernampoon, in Stains, Eng., is an Article and mingham; "the metropolis of the Black Country"; ironwks, locks, keys, mchny, and tools, zinc and tin manuf.; p. 95,333. Wolvernampton was originally called "Hamton," later "Wulfrunshamton," after Wulfruns, sister of King Fdgar. The sncient church of St. Peter's, which Wulfruns founded, was many times rebuilt, its last restoration and calargement taking place in 1800-56. Apart from this edifice. many times rebuilt, its last restoration and enangement taking place in 1885-65. Apart from this edifice, the town is of a modern and substantial aspect, including a fine town hall, corn exchange, agricultural hall, art gallery, etc. Boscobel is 8 m. distant. Wolverton, f. nr. Stony Stratford, Bucks, Eng.; rly. curriage wks. of the London and North-Western Rly; p. 4,or8.

Wombwell, call. townshp. nr. Barnsley, W.R. Yorks,

Eng., p. 17,538.
Woodbridge, mkt. 4. on R. Deben, Suffolk, Eng., es the right bank of the Deben, which broadens into an estuary, 2 m. from the sea and 8 m. E.N.E. of

Ipswich. In Domesday Book it is alluded to as Ontorygge, and has a church dating from 150, with a fint-work tower 108 feet high. There are also well-endowed almhouses and a grammar school. Edward Fitzgerald and Bernard Barton were natives of Woodburdge; p. 463.
Woodburd, 2. 208 m. N. Sydney, N.S.W.; pastoral dist. p. 2.200.
Woodbury, C. 208 m. N. Sydney, N.S.W.; pastoral dist. p. 2.200.
Woodbury, C. 1. Lichfield co., Connecticut, U.S.A., p. 3.656.
[Subn. (N.E.) to London, p. 15.497
Woodford, industri. and resident. C. Essex, Eng.; Wood Green, 474. Middlesex co., Eng., subn. (N. 10. to London i resident, in Tottenham par.; p. 49.372
Woodball Spa, C. nr. Horneastle, Linc.; mmeral sprn.; health resort; p. 1.500.
Woodside, 8047.4 on R. Don, adjng Aberdeen, Scott. p. 6.340.

Scotl., p. 6,340.

Woodside, 0117.7 m. K. Doil, adjug Addresses, 18021., p. 6,340.

Woodstock, bor. on R. Glyme, Oxfordsh, Eng formly, a glove-infig, centre; Blenheim Palace lies outside the par.; W. was formerly a royal res., associated with the romance of the "Fair Rosamond "and Henry II.; Black Prince was born here; p. 1,594.

Woodstock, to in Thames R., Oxford co, Ontario, Can., 30 m. N.E. of London; exports dairy prod.; p. 5,081; also port on R. St. John, New Brunswick; p. 2,684; also vil. nr. Hartford, Connecticut, U.S.A.; p. 2,948.

Woodwille, 4 in co. Waipawa, New Zealand; p. 1,814; also t. nr. Adelaide, S. Australia; p. (lifst) 3,263.

Woodwille, 4 in co. Waipawa, New Zealand; p. 1,814; also t. nr. Adelaide, S. Australia; p. (lifst) 3,263.

Wooldmid, 19, 1,805.

Wooldmid, 19, 1,805.

King; industri.; p. 4,886.

Koolthop Forest, a large tract of woorded country on the borders of Hants and Sussex.

Woolsthorpe, hamide of Lincolnstiire, 8 m. S. of

Woolsthorpe, hamlet of Lincolnshire, 8 m. S. of Grantham; noted as the birthplace of Sir Isaac

Grantham; noted as the birthplace of Sir Isaac, Woolton, or Much Woolton (g.v.), nr. Liverpool, Woolwich, ber. garrison, and dockyd., t. on R. Thames, Kent, Eng. 10 in. from London; princpl. artillery arsenal of Britain, dating from 1585, when Queen Elizabeth filled the Tower House, a mansion in Woolwich Warren, adjoining Plimstead Marches, with arms and armour. In 1716 the proof of ordance was given to Woolwich and guns began to be cast there. With the beginning of the 19th century great extensions were made, and the works now cover some hundreds of acres. There was a royal dockyard at Woolwich until 1869; it is now need as a millitary store depôt; p. 121,403. North Woolwich (p. 5,584) on opp, side of Thames (formerly included

yard at Woolwich until 1869; it is now nised as a military store depôt; p. 121,493. North Woolwich, 5,984, on opp, side of Thames (formerly included in Essex) now forms part of the co. of London. Woonsocket, c. on R. Blackstone, Providence co., Rhode isl., U S.A.; textile manuf; p. 36,118. Wootton Basset, mkt. t. nr. Swindon, Wilts. Eng.; p. Wortesster, middl. co. Eng., W. of Warwicksh; area 751 sq. m.; agr., pasturage, hops, orchards, minls., manuf.; p. 556,143. Cap. W., on c. of R. Severn; cathedl., porcelain wks., iron foundries, large trade in hops, fruit, etc. In 1679 became the seat of a Mercian bishopric. The cathedral is in the form of a double cross, 420 ft. long, 26 ft. wide large trade in nops, fruit, etc. In 1079 secume the seat of a Mercian bishopric. The cathedral is in the form of a double cross, 420 ft. long, 256 ft. wide across the west transept, and 60 to 67 ft. high, with a central tower of 190 ft. Has been many times rebuilt, the latest restoration being completed in 1857, at a cost of £100,000. It has columns of Purbeck marble. Among the bishops of Worcester may be mentioned St. Dunstan, Laigner, Whitgift, Stillingfeet, and Perowne; p. 47,897.

Worcester, c. in W. co., Mass, U.S.A. 44 m. S.W. of Boston; boot manuf., tool-making, etc.; p. 145,500; also t. in wine-growg, dist. Cape Col., Brit. S. Aftr.; p. 7,246. It is called "The Academic City," and contains the State Normal School. From the porch of the Old South Church the Declaration of Independence was first read in Massachusetts.

Workington, mkt. 4, and 594 at mth. R. Derwent, Cumberid., Eng.; ironwks., cycle and motor-car factories. The prosperity of the t. is chiefly owing to its coal mines. There are important salmon

fisheries. Workington Hall, the seat of the Curwens, dates from the eleventh century. It was there that Mary Queen of Scots was entertained on her flight from Langside, on the 16th May, 1508; W. was incorporated as a municipal borough in 1888; p.

incorporated as a hunicipal borough in zoos; p. 95,099.
Worksop, mkt. l. Notts, Eng.; chair-mkg., box and case manuf.; p. 20,387. It borders upon the northern extremity of Sherwood Forest. At Worksop Manor (burned down in 1761) Mary Queen of Scots was impressed under the guardianship of the Earl of Shrewsbury. Worksop church, originally an Augustinian priory of the 18th century, is a notable edifice.
Worditz. c. in Anhalt. Germy.. nr. Magdeburg; ducal

Worlitz, t. in Anhalt, Germy., nr. Magdeburg; ducal

palace and park; p. 4.825. Worms, c. nr. the Rhine, Hesse-Darmstadt, Germy.; Yorms, c. nr. the Khine, Hesse-Darmstaft, Germy,; famous in former times as a royal res, and seat of Diets (at one of which—in rear—Luther made his memorable defence). The scene of the Nibelungenited is laid in Worms; Charlemagne frequently resided here. The industry of the town was so great in the middle ages that it had a population of 60,000. Centre of wave industry, and population of 60,000. wine industry; gd. modn. tr.; p. 57,860 Worms Head, promonly. on Glamorgansh. cst., S.

Wales.

Wormwood Scrubs, a London dist. 3 m. N. of the Marble Arch. Its features are a common, a prison, Marble Arch. 115 reatures are a common, a prison, and a railway station
Worsborough, industri. t in colly. dist. nr. Barnsley;
W.R. Yorks, Eng.; p. 12,794.
Worsley, industri. township in S.E. Lancash., Eng., nr. Manchester; p. 13,006.
Worth, sml. 4. in Lewer Alsace, nr. Weissenburg, on

Worth, sml. 4. in Lower Alsace, nr. Weissenburg, on R. Sauer; Gernin, victory over French, Aug. 7, 1870; the Germans call it Retchsholen; p. 1,276; Worthing, 594, and wat, 94. Sussex, Eng., nr. Brighton; first came into popularity after the visits of Princesses Amelia and Charlotte, daughters of George III., some hundred years ago. Constituted a municipal borough in 1890; fruit-growing dist.; p. 20.203.

30,398
Worldey, twushe, nr. Penistone, W.R. Yorks, Fing.; p. 1,496; also large industri, sub. Leeds, W.R. Yorks, included in the city bindy.
Wotton-under-Edge, mkt. L. nr. Stroud, Gloucestersh.

Wotton-under-Edge, mkt. l. nr. Stroud, Gloucestersh., Eng.; p. 4.632.
Wrangell, settlt. l. at N.W. end of W. Isl., S.E. Alaska, U.S.A., named after a famous Russn. explorer of the Polar Regions; port for furtraders and muning centre; p. (inclindg. native Indians) gro. Mtn. Wrangell is a lofty pk. of Alaska, N.W. of Mt. St. Elias; alt. 17,500 ft.
Wrath, Cape, isead.d. at N.W. extrem. Sutheridsh., Wratte, 1.0 Bulgaria, 43 m. N.E. of Sofia, p. 21,000.
Wrekin, l. of Bulgaria, 43 m. N.E. of Sofia, p. 21,000.

Wrexham, bor. on R. Clywedog, Denbigh and Flintsh., N. Wales; 12 m. S.W. Chester; barracks, fine ch.; flannel industry; one of the Denbigh parly. boroughs. Has a fine old church, on the site of a more ancient edifice, destroyed by fire in 1457 and rebuilt in 1472edifice, destroyed by fire in 1457 and rebuilt in 1473-1520, with a tower 135 ft. high, containing a famous peal of bells, known as one of the "Seven Wonders of Wales." Bishop Heber wrote "From Green-land's Icy Mountains" in the vicarage. W. was incorporated in 1857. P. 18, 370. Wrietzen, industri. 1. on R. Oder, nr. Berlin, Pruss.; Wrington, a 267. of Somerset, toom. S.S. W. of Bristol; has a fine church with a notable tower. W. is the birthplace of John Locke. Wrockwardine, 267. nr. Wellington, Shropsh, Eng.

Wrockwardine, *ar. nr. Wellington, shropsh., ang., p. 5.852.
Wrotham, sml. t.nr. Sevennaks, Kent, Eng.; industri. Wroxeter, vil. Shropsh., Eng.; on R. Severn, nr. Shrewsbury; on site of Roman Uriconium.
Wuchang, *ca/*, of provs. Hunan and Hupeh, China; head of a vice-royalty; impt. offici. and commerci. centre; mint, arsenal, foundries, rly. weshops. W. stands on the Yangtsze R. opp. the foreign settlemt. of Hankow, and has a nat. p. est. at 800,000. Exports, tea. cottom. etc. tea, cotton, etc.

Wuchow, treaty of. in Kwangsi prov., China, on the

Si-Kiang (or West R.); beautiful situation; gt. tr.;

nat. p. 50,000. Vudwan, or Wadhwan, a native state of Kathlawar, W. India, area 237 sq. m., p. 51,000, chiefly Mahomedans. Wudwan, t., cap. of State, is 110 m. N.W. of

Baroda, p. 28,100.

Wu-hu, Chinese treaty port, 50 m. above Nanking, nr.

We-hu, Chinese treaty port, 50 m. 200ve training, an-the Yangisze.

Wülfrath, t. in Rhenish Pruss., nr. Elberfeld; industri.;

Wun, dist. Berar [Hyderabad Assigned Districts], Brit. India; area 3,91x sq. m.; cotton culture and manuf.; p. 465,000. Cap. W., t. on the Nagpur road;

manati, p. 466.000. Cap. W., t. on the Nagpur road; cattle fair; p. 5018. W., t. on the Nagpur road; cattle fair; p. 5018. Wupper, a Rhine interpretation of management of the motive power for numerous mills, and on its banks are many im-

portant industrial districts.

Wurnu, f. nr. Sokoto, B. Northn. Nigeria; p. 12,500.
Würtemberg, Mingdom S.W. Gerny,; area 7,528 sq.
m.; mtnous. and afforested (Black Forest) with much mini, wealth, especially salt; p. 2,250,000. The Black Forest lies along its W. boundary, and the Swabian Alb extends across the country, constituting the watershed between the Neckar and the Danube. the watershed between the Neckar and the Danube.
There are many mineral springs and mines of fron and
salt; 60 per cent, of the population are Protestants.
Kepler, Schuller, Uhland, Heggel, and Strauss were
Wiltenbergers. Cap. Stuttgart (q.w.): exports
much wine, cider, fruit, dairy prod, and beer,
Warzburg, fort. L. Bavaria, on the R. Main In Lower

Wirzburg, Jort. L. Rivaria, on the R. Main in Lower Franconia; cathedl; university, wine tr. centre; many educatul, metrs, and technical training colleges. The episcopal palace (1720-44) is one of the finest royal residences in Germany. On the left bank of the Main stands the fortress of Marienberg. The eastle here erected by Druss was the episcopal residence until 1720. P. 85_174.

Wurzen, T. on R. Mulde, Saxony; old cathedl, and castle; iron foundries, mehny manuf., blscut-mkg.;

Wyandotte, c. on R. Detroit, Wayne co., Michigan, U.S.A., p. 8,14; also c. on R. Missouri, Kansas, U.S.A., p. 8,172.

Wycombe, or High Wycombe, industri bor. on R. Wye, Bucks, Eng. 15 m N W. of Windsor, p. 18,120. West Wycombe (24 m. N.W) is a par. with p. 2,024. Desborough Castle, a Saxon fortress, remains of which survive, was here; and there is an important ner church (2720-2722) restored (384-384).

which survive, was here; and there is an important par. church (1273-1522), restored 1874-88.

Wye, mkt. t. nr. Cauterbury, Kent, Eng., p. 7,645; also R. Derbysh, Eng., flow; so m. to R. Derwent. at Rowsley; also sn. R. of Bucks, affluent of R. Thames from High Wycombe; also impt. R. Eng. and Wales, rising in Monigomerysh, and flowing 1730 m.) betwn. Gloucestersh. and Monmouthsh. to the R. Severn.

Wyke Regis, vil. of Dorset, 2 m. W.S. W. of Wey-Wylam, vil. of Northumberland, 8½ m. W. of Newcastle, birthiplace of George Stephenson.

Wymondham, mkt. l. nr. Norwich, Norfolk, Eug., p. 4,746.

p. 4,746. Wymore, c. on Blue R., Gage co., Nebraska, U.S A.,

Wynaad, a mtn. dist. of the Western Ghats, about wynand, a min. aist. of the Western Giars, about 3,000 ft, above seal-evel. A well-kinown gold reg-on. Wynberg, vil. Cape Col., Brit. S. Africa, 8 m. from Cape Town, p. 5,144. Wyngene, industri. vil. nr. Bruges, Belgium, p. 7,170. Wynyard, port on Inglis R., nr. Launceston, Tasmana, p. 1,346. Wyoming, a N.W. st. of U.S. A., formerly part of Dakota territory; admitted to the Union in 1890; the control of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the Chapter of the

Dakota territory; admitted to the Union in 1890; area 97,800 sq. n.; stock-raising, agr., coal-unining; traversed by Rocky Mins. The Yellowstone Park a chiefly within 18 lunits. Its lakes are not at a high altitude. Yellowstone L. (7,798 lt.), Lewis L. (7,780 lt.), and Shoohone L. (7,790 lt.), above the level of the sea. P. 140 512 Cap. Cheyenne (2,77.) Wyoming Valley, or a the Susquehanna R., m N E. Pennsylvanna, is about 30 nt. long and 5 nt. wide, is of great beauty and fertility. The struggles connected with its early history are commemorated partly in Campbell's poem, "Gertrude of Wyouning." To-day it is a great coal region, run in anthracite.

Wyre, R. Lancs, Eng., flows 28 m. to Irish S. at Fleetwood; also a forest of Worcestersh., Eng. Wysegorod, industri. t. Plock govt., Russn. Poland, p. 5,612.
Wytheville, vil. nr. Abingdon, W. co., Visginia, Wyvis, Bea, min. Scoti. (See Ben Wyvis.)

## x

Xalanga, t. in Tembuland dist., Cape Col., Brit. S. Affin, P. 2018 pag. (1 habove see; pop. health resort. Xafre, p. 2018 pag. (2 habove see; pop. health resort. Xaliaco, **xaf* of Mexico; alternative name for falleco Xaliaco, **xaf* of Mexico; alternative name for falleco Xamiltepec, t. nr. Cajaca, Mexico, p. 4,862. [[g.w], Xandare, t. nr. R. Piguiry, Santa Catilarina prov., Brazil, p. 5.210. 4. II2

Brazil, p. 5,220.

Ranten, i. nr. Cleves, Rhenish Pruss; industri, p. Kanthi, i. at ft. of Mt. Rhodope, Adrianople vilayer, Europn. Turkey; rains of anc, stronghold, mosques, famous for De Yémiqié tobacco; p. 14,000.

Ranthus, runed c. of Lycia, Aslatic Turkey, on the R. Kanthus (unodern Kedja Ak); destroyed successively by the Persians (i' C. 5,25) and the Romans under Brutus (az or 43 B C); impt antiquities, including parts of the Nered monument (now in the Brit, Museum), discovd, by Fellows, 1838

Raraes, or Charaves, extensive venudical L. on R. Raraes, or Charaves, extensive venudical L. on R.

Karaes, or Charayes, extensive periodical L. on R.

Karaes, or Charayes, extensive periodical L. on R. Paraguay, Brazil, now a wast swamp.
Kenla, c. in the Mianti valley, Greene co., Ohlo, U.S.A.; market and mftg. centre in faring. dist.: p 9,384.
Keres, or Jerez de la Frontera, a dist. of Spain, and the centre of the sherry industry, 14 m N.E. of Cadiz.
Kertigny, t. nr. Epinal, Vosges dep., France; indus-kesibeland, a dist. between Griqualand East and Pondoland, incorporated with Cape Colony in 1886.
Kirnena, or, Ilmenal de la Krontera, t. nr. Cadix

FORGORIAG, INCOPORTHER WITH CADE COORY IN 1880. Kimena (or Jimena) de la Frontera, £. nr. Cadiz, Spain, nr. Gibraltar. Kingu, £. Brazil, trib. of the Amazon (1,300 m.); navugdble for stcamers trom in st of l'ard. Kixona, £. nr. Ahcante, Valencia, Spain. linen and shoe factories; exports almonds; p. \$.520. Kochicalco, place in Mexico, 75 nr. S.W. Mexico c.; funous ruis.

Accentated place in Mexico, 75 in. 5, w. Mexico C.; famous ruins.

Xochimilco, L. of the Mexican valley, 7 m. S.S.E. of Mexico C., formerly contiguous with L. Tezcuco; an X., t. on L. X.; p. 73,520.

Xucar, o. Jucar, R. of Spain, flows (200 m.) from New Castile through Valencia to the Mediterranean at

Cullera. Cullera. [the Molucca S., Dutch E. Indies, Kulla Beal, smallest of the Xulla grp. of three isls. in Xyli Bay, inlet of the G. of Kolokytha, on S. est. Laconia, Morea, Greece. Xynias, or Daukli, Lake, nr. Mt. Andinitsa, Larissa, Thessaly, Greece, 5 m. long, 1½ m. wide. [the Molucca S., Dutch E. Indies.

Y, or Ij (Dutch, Het Y), an arm of the Zuyder Zee, connected by canal with the N. Sea; on its S. side stands Amsterdam c Yablonol Mtns., S.W. chain of the Stanovol mtn. system, E. Asia, between Siberia and Manchuria; highest summit, Mt. Chokondo, b.o.g ft. Yacata, small rst. of the Lau, or Eastern group, Fijit Arch., Pacific Ocean (British). Yackandandah, t. nr. Beachworth, Bongo dist, Yictoria; mining; p. 1,808. (the Gt. Pedee R. (gs.), Yadkin, R. N. Carolina, U.S.A. (300 m.), flows to Yair, the ancient seat of the Pringles, on the Tweed, ym. N.N. of Selkirk.
Yakima Pass, over the Cascade Mtns., Washington, U.S.A.; alt, 3,606 ft.; crossed by N. Paclic Ry.

Yakima Pass, over the Lascade Mus., Washington, U.S.A.; alt. 3,600 ft.; crossed by N Pacific Ry. Yakima R., Washington, U.S.A. (205 m.), joins the Columbia R., above the mth. of the Snake R. Yakoba, f. ig Sokoto, Northern Nigeria, Brit. W. Afr., p. (est.) 0,000; gt. tr. centre.
Yakova, f. nr. Scutari, Albania, Turkey, p. 25,800.
Yaku-shima, 46f. of Japan, S. of Kiu-shiu, 14 m. long, 14 m. wide; forest-clad and minous. (Yaye-deke, alt, 14 m. wide; forest-clad and minous. (Yaye-deke, alt, 14 m. wide; forest-clad and minous. 6,515 ft.).

Yakutak, prot. E. Siberia, Asiatic Russ.; reaching from the Arctic Oc. to Irkutsk, Transbatkala, and Annur, and sep. from the Pacific by the narrow Maritime Prov.; area 1,533,400 sq. m.; chmate very severe; has mpt. gold-mines; a large portion of its surface is covered with forest, and there are numerous lakes, the chef of which he in the valley between the Indightrika and Kolyma. In winter the climate is of Polar severity. but m summer cereals climate is of Polar severity, but in summer cereals are grown; p. only 326,000. Cap. Y., t. on R. Lang; a convict station and the seat of the bishop of Yakutsk and Vilyuisk; houses chiefly of wood; gd. tr.; p. 6,640.

Yalding, par. on R. Medway, nr. Madstone, Krat Yale, r. on Fraser R., nr. New Westmuster, Ent. Columbia, p. 3,044; University, U.S.A.

Yalta, spt. on S. coast of Crimea, govt. Taurida,

Yalta, 592. on S. Coat of Crinica, gov. Fautus, Russ.; winter rest, 5, 14,200 Walta-Klang, A. on W. frontier Corea; flows 300 m. S.W. to Yellow Sea; gt. Japanese victory over S.W. to Yellow Sea; gt. Japanese victory over Adultroysk, 4, on Tolojsk, R., Siberia, Asianc Kuss.,

Yamachiche, t. on the Y. R., St. Maunce co., Quebec,

Yambol, t. on R. Tunia, Silvan deep, E. Roumeta,

Bulgaria; old fortificus, runed mosque; com tr.;

Bulgaria; out forthtens, runted mosque, cont..., p. 15,068.

Yaméthin dist. Menktha d.v., Upper Burma; area 4,288 sq. m.; mandy teak forest, with rice cultin in clearings; p. 210,500. Hidge, t. Y., p. 7,146.

Yamina, r. in Gambia, W. Africa, p. 6,450; also t. (sometimes called Nyamina) on R. Niger, Bambarra st, W. Africa, p. 105,00, mipt tr centre. [R. Lena. Yana, R. Siberia, flows (1,000 in ) to Arcti: Oc. R. of Yanaon, French settlement on R. God wan, f. India; surrounded by Brit. terr. of the Madras Pres.;

Yanbu, or Yembo, spt. of Hejaz. Arabia, on the Red Sea; the port for Medma, from which it is distant

ray m. Idelta of the Irawan.
Yandun, t. in the Thongwa dist of Burma, in the
Yang-Tchu, c. on Grand Canal, prov. KiangsuChina, N.E. of Nanging, gt. commercial and tradg. community; with immense junk traffic; p. (est.)

Yang-tse-Klang, R. of China, rising in the Tibetan plateau known as the "Roof of the World," and flowing, for 3,000 m. S. of Hoang-Ho, in a winding course through Central China to the E. China Sea in the prov. of Kang-su ; it forms, with tributary streams the prov. of Kiang-su it forms, with tributary streams and canals, the great commercial waterway of the Empire; the main R. is navigable direct for large sea-going steam crait to Ichang, 1,000 m. from its mouth, [gd. trade, p. 5,614 Yanitza, t. 30 m. from Salonica, European Turkey; Yankotilla, t. nr. Adelaide, S. Australia, p. Idist. 1,485; Yankotn, c. of Y. co., S. Dacota, U.S.A. on Missouri R.; large boattr. in grain, seat of a college, p. 4,800.

Previous to 1883 was the cupital of the territory of Dakota; is about 200 m. from Omaha, and 569 m.

Dakota; is about soo m. froin Omahi., and 569 m. from Chicago,
Yao-Nan, c. Yun-nan prov., China; large tr. in salt,
.usk, etc., p. 64,000. [gd. local tr., p. 56;500.
Yao-Tchu, c. Kiang-si prov., China, nr. L. Po-Yang;
Yap, trl, of the Caroline grp, in the N. Pacific Oc.
(to m. long); purchased by Germany in 1890.
Yapura, R. of Brazil and Columbia, trib. 1: 500 m. of
R. Amazon; navigable for 600 m. [C. of Cahifornia.
Yaqui, R. Sonora st., Mexico, flows 400 m. S.W.
Yaracuy, stats Venezuela, watered by Y.R., p. 75.600.
cap, San Felipe.
(industri, p. 7, 274.
Yardley Hastinga, vil. nr. Northampton. Eng.;
Yare, R. Norfolk, Eng., flows 50 m. past Norwich c. to
the sea at Yarmouth.

the sea at Yarmouth.

the sea at Yarmouth.

Yaritagua, f. nr. Barquisimeto, Venëzuela; in a
beautiful tobacco, coffee, cocca, and sugar growing
dist. p. 12.084.

Yarkand, R. Chinese Turkestan, trib. (500 m.) of R.

Tarim, wh. flows to Lob Nor; also c. in a rich casis
crossed by Y. R., 100 m. S. E. Kashgar; the c.

(p. 120,000) was formerly the cap, of an independt. Mohammedan kingdom; leather manuf, and large tr. Yarker, vst. on R. Nepanne, Addington co., Ontario, Canada, p., (dist.) 1,180.

Yarm, nikt. t. on R. Tees, N.R. Yorks, nr. Stockton, Yarmouth, 5pt. nr. Newport, Isle of Wight, Eng., p. 1,140; also spt. of Y. co., Nova Scotta, p. 6,48; also t. nr. Portland, Maine, U.S.A., p. 3,914.

Yarmouth, Great, 5pt., fishy, t., and vad. pt., at mth. of R. Yare, Norfolk and Suffolk, Eng.; hdgrs. of herring fleet, res. p. (incldg. Gorleston and Southtown) 5,580; is a municipal, parly, and co. borough, A bridge connects the town with its Suffolk suburbs of Southtown or Little Yarmouth and Gorleston. The Southtown or Little Yarmouth and Gorleston. sea frontage, which extends for about 3 m. has a spacious marine paratte, and fine plers—the Wellington and Britannia piers, as well as the Old Jetty, dating from 1808. The parish church of St. Nicholas Is one of the largest parish churches in the kingdom, 230 feet in length, with a spire 168 ft. high. Yar-mouth was chartered by King John, and resurned two members to Parl, from the time of Edward II. until 1867. In 1688 was created a county borough,

until 1867. In 1838 was created a county borough.
Yaroslav, fort. cont. European Russ, traversed by
R. Volga; area 13,75; sq. m., mfg., agr., gdng.,
dairying, p. 1,120,86; cap. Y., c. on the upper
Volga; tobacco factories, cotton-mills, four-mills, gt.
tr. with both Moscow and St. Petersburg, p. 80,000.
Yarragong, t. nr. Molbourne, Victoria; timber tr.,
p. 1,805.
Yarrawonga, t. in hilly agr. and fruit growg, regn.,
161 in N.E. Melbourne, Victoria; p. (dist.), 7,644.
Yarra-Yarra, R. of Victoria, flows 200 m. W. to Port
Phillio R. Lisasson Melbourne.

Paria a tark, A of Victoria, nows foo m. W. to Fort Philip B., passing Melbourne. Yarriba, or Yoruba, former indept. st. of Upper Gunea, N.L. of P. choncy; now included in Brit. Nigera; occupies the cashi, half of the Slave Coast, and reaches N h. to the R. Niger; est. pop. 3,000,000 of the sturdy negro race who furnished so many unwilling slaves to the cotton planters of America; chf. t's. Oyo (the old cap.). Ibadan, Abeokuta, and Illori

Yarrow, pictureque R. Selkirksh., Scotl.; traverses Loch of Lowes and St. Mary's Locn, and flows 25 m. to the Ettrick.

Yasin, t. on the Gight R., nr. the Darkot Pass (alt. 7,720 ft.), Chitral, N.W. Frontier Prov., Brit. India; p 6,120.

Yass, t. on R. Y., 187 m. S.W. Sydney, N.S.W.; officl, centre of grazy and gold-mining dist., p. 7,420. Yassy, Roumania. (See Jassy.)
Yatala, twishp, in: Brisham, co. Ward, Queensland;

p. 2,416. [3,410.] Yatına, t. in S. Australia, nr. Adelaide; p. (dist.) Yatsauk, one of S. Shan sts. Eurina; area 2,196 sq. m.; minous, with fine teak lorents; p. 15,500; cap. Lawks.wk, on L. Zawgyi.
Yaury, of Yaouri, A. 69, in. N. of Boussa, on R. Niger, Brit. N. Nigera; p. [est.] 30,000, large tr.
Yazley, Ar. in co. Hunts, Ling., 41 in. S. of Peter-

borough, p. 1,422. Yazoo, R. Mississippi, U.S.A.; Joins the R. M. above

Vickslurg after a course of 280 m.; also c. on banks of Y. R., 48 m. N.E. of Vickshurg; p. 4485. Yberg, vil. Switzld., 7 m. N.E. Schwytz; medicinal

y Derg, 7tt. Switzul, 7 in. N.L. Schwylz; medicinas springs; p. 2,182. Ye, t. on Ye R., Amherst dist., Lower Burma, p. 2,974, Yea, post t. on Y. R., in pastoral dist., Victoria, 80 m. E.N.E. Melbourne; p. 3,276. Yeadon, industri t. on. Leeds, W.R. Yorks, Eng.; p. Yealm, sunl. K. Devon, Eng., flows (12 m.) to Engl. Chan.

Chan. [1,216.

Chan.

(Lyafe, Yealmpton, par. ar. Plymouth, Devon, Eng.; p. Yeardsley-cum-Whalley, par. (industri.) ar. Stockport, Cheshre. Eng.; p. 1699.

Yebenes, old industri. d. nr. Toledo, Spain; p. 4918.

Yecla, anc. mkt. d. prov. Murcia, Spain; in wheat, wine, and esparto grass dist.; intoresting architectical states of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con

White, and espain fines and grave.

Yeddo, old name of Tokio c., Japan (g.w.).

Yefremoff, t. in Tula govi., Russ.; industri.; p. 8, 130.

Yeisk, dist. t on Y. B., in N.E. of S. of Azov. N.

Caucasia, Russ exports com, linseed, wool; p. 38,115.

Yekaterinburg, t. on R. Isset, at E. base of the Ural Mtns., govt. Perm, Russ., on the gt. Siberian road; hdqrs. of mining regn.; govt. and other factories;

hdqm. of mining regn.; govt. and other factories; large tr.; b. 51,222.

Yekaterinodar, t. on Kuban R., Russ.; cap. of Caucasian prov. of K.; official res. of the hetman of the K. Cossacks; gt. commcl. and mfg. centre; b. 63,483.

Yekaterinograd, fortfd. t. on R. Terek, govt. Yekaterinoalav, govt. S. Russia, adjng. the prov. of the Don Cossacks and the S. of Azov; area 24,500 sq. m.; p. 1,750,000; cap. Y., fortfd. t. on R. Duieper; founded by Fotemkin in 296; imany manuf. large tr.; p. 135,800.

Yelabuga, t. on R. Kama, Visitak govt., Russ.; Yelabuga, t. on R. Oka, Tambov govt., Russ.; P. 7,880.

Yeiatom, industri. L. on R. Oka, Tambov govt., Russ.; p. 7,880.
Yeiletz, L. on R. Sosna, Orel govt., Russ.; grain and Yeilsavetgrad, L. in Kherson govt., Russ., on the Ingular R.; impt. markets; p. 71,222.
Yeilsavetpol, grov. Transcaucasia, Russ.; aroa 16,721
eq. N., p. nearly 1,000,000; cap. Y., t. on trib. of Kur R., formerly an impt. strategical position (named Ganja); good modern trade; p. 22,416.
Yeil, 11. of the Shetland group, Scotl., N. of Mainland, 12 m. long, p. 2,622.

Yell, kr. of the Shetland group, Scotl, N. of Mainland, 17 m. long, p. 26-3.
Yellala Falls, lowest of the Livingstone series of cataracts on the Congo R., West Africa, 120 m. from Yellow R., China. (See Hoang-Ho.)
Yellow Sea, arm of the Pacific Occan, between Corea and China, branching into the Gulfs of Pechili and Liaotung; greatest width 400 m., length 600 m. Yellowstone Lake, in the Y. Nat. Park, U.S.A., 20 m. long, 15 m. wide; traversed by the Y. R.; 7,40 ft. above sea-level. The Yellowstone National Park is a wildly beautiful natural regron in Wyonung, Montana, Idaho, set apart as a pleasure ground for the people by the U.S.A. Congress in 1892; area 3.500 sq. m. It is a great game preserve, mountainous, and partly afforested, ranging from 7,000 to 1,000 ft. 3.50 sq. m. It is a great game preserve, mountainous, and partly afforested, ranging trom 7,000 for 11,000 ft. above sea-level; has many romantic canons, and some extraordinary geysers and boiling prings. Through it flows the Y. R., which rises in N. W. Wyoming, and joins the Missouri in N. Dakota, after a course of 1,500 m. The R. has an upper fall, below the L., of 112 ft., and a lower fall of 310 ft., leading the stream to the Grand Caflon of nearly 30 m. leemen, 32% in Hedgiaz, Arabia; sinpping centre for Medina, 130 m. to the N.E.; p 5,220. Yemen, 4137. S.W. Arabia; sinpping centre for Medina, 130 m. to the N.E.; p 5,220. Yemen, 4137. S.W. Arabia; along, lisedjaz, the Red Sea, and the Gulf of Aden, a Turkshi vlayet 400 m. long; grows coffee, tobacco, dates, spices, and aromatic gums; p. 750,000. Cap. Sain; chief port Mocha.

Mocha. Proposed (Proof for Indiana) (Pondar, 1), 8,460, Yenangyoung, L. on R. Irawadi, 60 in. S.W. Ava; Yenesei, R of Siberia, flowing S. to N. from Mongolia to the Gulf of Yenevel (3,400 in) and into the Arctic Occan, E. of G. of Obi navigable in its lower and middle course. unddle course

maddle course
Yeneseilsk, prov. Asiatic Russ., occupying most of the
Yenesei basin, area 987,189 sq. m.: rich in precious
metals; mountainous S. and level N.; agr. is being
vigorously promoted, and the Yenesei fishing is very
valuable. Cattle-rearing flourislies, and horse and
pony-breeding are an import. midistry. Cap. Y., t.
on the Y. R., 200 m. N.N.W. of Krashoyarsk, centre

on the Y. R., 200 m. N.N.W. of Krashoyarsk, centre of gold-mining region; p. 15,114.

Yengarie, komnskry Queensland, 120 m. N.W. Brisbane, p. (klist.) 3,424.

Yeni-Bazar, f. nr. Shumla, Bulgaria; commercial Yenikale, fortid. f. in the Crimea, S Russia, 65 m. E. of Knifa, p. 2,142. The Strat of Yenikale separates the Crimea from Circasska, and connects the Sea of Azov with the Black Sea.

Yenne, f. on R. Rhône, dep. Savoy, France, p. 3,083.

Yenne, f. on R. Rhône, dep. Savoy, France, p. 3,083.

Yenn-Se ; p. 11,240.

Yen-Ping-Fu, f. on R. Yan Ho, China, in prov. Shen-Se ; p. 11,240.

Yen-Ping-Fu, f. on R. Min Ho, China, prov. Fo-Yeo, or Ivel, R. Dorset and Somerset, Eng., trib., (24 m.) of R. Patret.

Yeola, k. Nazik dist., Bombay, India; silk thread and cleth manuf, gold and silver wire-drawg, p. 19,040.

Yeovil, ber. Somerset, Eng., on R. Yeo; glove manuf.

motor-car works, p. 13,760. Yoovil stands in a picturesque position on a hillside rising from the Yeo. It has a fine 15th century church in the Perpendicular style, with a tower of it. high. The church is dedicated to St. John, and known as "The Lantern of the West.

Lantern of the West."

Yepea, t. n., Toledo, Spain; industri. p. 3,056.

Yerkad, hill health-rest. Salem dist., Madras, India, alt. 4,838 ft., p. 1,576.

Yerma, t. nr. Angora, Asia Minor; gd. local tr., p. Yeshil-Irmak, R. Asia Minor, flows (200 m.) to Black S. Yeshil Kul, L. nr. Keria, Chinese Turkestan, m a plateau of the Pamurs.

Yesso, Yezo Jesso, or Ezo, most N. or the five princ. 115. of the Japanese Empire: area 30,148 sq. m., p. 650,000 (17,570 Anu). Fukuyama (formerly called Matsumaye) was the cap, but Hakkodate is now the chif. t. There are numerous volcances on the isl. The est. fisheries furnish the princ. wealth of theis. there is much timber, sulphur, and coal.
Yeste, industri. 1. Albacete prov., Spain, p. 7,264
Yes Tor, highest summit Dartmoor, Devon, Eng.,
alt. 2,00 ft. The cst. fisheries furnish the princ, wealth of the isl.;

att. 2,050 ii., Yetholm, viii. Roxburghsli., Scotl., on Bowmont Water, nr. Kelso; at foot of the Cheviots, a noted grpsy resort, p. (dist.) I. 108.
Yezd, Persun prov. S. of Khorassan; area 20,000 sq. m.,

yezd, Persun prev. S. of Khorassan; area 20,000 sq. m., bordering on the great deserts, p. 100,000. Cap. Y., t. on a large-oasis 290 m. E. of Ispalian, in silk-growge, dist; has large tr. with India, and manuf, silk, fabrics, felts, and nankeen. Has fire temples and a Zoroastran community, p. 45,000. [of showdon, ait. 2,375 ft. Y. Garnedd Goch, 111. (a. Tararonsh., Wales, S. W. Ying-Tazu, f. in Manchurla, China, nr. G. of Liaotung; gd. local tr., p. 11,240.
Ying-Cynhalarn, dist. on est. Camaroonsh., Wales, S. W. Ying-Tazu, f. in Manchurla, China, nr. G. of Liaotung; gd. local tr., p. 11,240.
Yochow, or Yuchow, c. prov. Hunan, China, at outet of Tungting L. on the bank of the R. Yangtsze. Yoker, 11. on R. Clyde, Renfrewsh., Scoth., p. 1,389.
Yokohama, 191. on Bay of Yedo, Japan; most impt. of the Japanese treaty ports, inmense tr., exports, silk, nce, tea, copper, etc.; was a mere fishing vil. until opend. to foreign commerce in 1859, now a c. with over 200,000 inhabitants.

with over 200,000 inhibitants.

Yola, £ in the st. of Adamawa, nr. the R. Benu £,
Brit. Northern Nigeria; large native tr. p. 85,000.

Youngala, £ in S. Australia, 159 m. N. of Adelande c.,
p. (dit.) r £ 6d.

Yonkers, c. Westchester co., New York, U.S.A.,

On. Hudson: t. xtile and iron manuf., p. 80,000.

Yonne, dep. Cent. Irance; area 2,804 50, m. watered
by R. Y. (151 m. long), agr. and wine-growing (Burgundy), las also much minl. wealth p. (declined)

316,000. Can. Auseres.

gundy), has also much mini, weatin p. (uecunea, 316,000. Cap. Auxerre.
York, largest co. in Eng., N. of Humber and S. of Durham, E. of Lancashire and washed by the N. Sea; area 6,605 eq. in, divided in three Ridings (W. largely ming, and mining; N. agr., pastl., and mining; E. pastl. agr., with cst. industries). p. 4,00,451 (over 3,000,000 of whom are dointciled in the inity, dists. of the W.R.). Cap. York, c. on the R. Ouse; magnificent cathedl, old walls and castle, c. gateways and many fine churches; gd. tr. and mkts. for cattle and corn, p. 8,299. York is the seat of an archishopric. It was known as Eboracum in Roman times. The Minster, one of the finest and most celebrated of English cathedrals, occupies the site of a church erected in the 7th century by Edwin, the first Christian King of Northumbria, which was destroyed by fire in 74r. It was rebuilt, but was once more destroyed during the Norman invasion, except the central wall of the existing crypt, which also includes portions of the church erected by Archbishop Rodger (134-81). Archbishop Gray added the fine Early English transept in the 13th century, and the present nave was built between 1393 and 1330, and the Perpendicular choir between 1393 and 1340. The two western towers, see well as the central Minster, one of the finest and most celebrated of 1330, and the rependicular control vetwen 1373 and the rependicular control 1400. The two western towers, as well as the central lantern tower, belong to the 15th century. An incendiary fire, in 1829, the work of Jonathan Martin, an insane fanatic, and another fire of 1840, did great damage to the Minster, but ample restorations were made in later years. The Benedictine abbey of

St. Mary, founded by Rufus, and now in ruins, was once of great wealth and distinction. The York Guildhall dates from the 15th century. Hull is the

Guidhail dates from the 15th century. Hull is the chief port, Sheffield and Leeds the largest towns.

York, c. Nebraska, U.S.A., cap. Y. co., rlwy, centre, p. 6,046; slab bur, on Codorus Croek, Penn, U.S.A.; manuf, p. 44,75; slab vil. in Y. co., Mame, U.S.A.; manuf, p. 44,75; slab vil. in Y. co., Mame, U.S.A.; when the standard property of Association of York Pennsula, Nextremity of Queenisand; also a C. of Hayes. Peninsula, Greenland.

reminsula, Greenland.

Yorke Peninsula (100 m long, 30 m. wide), S.

Australia; betwn, Spencer and St. Vincent Gults.

York Factory, 4. at nith. of Nelson R. on Hudson R.,

Keewatin dist., Canada, p. 1746.

York Ials., grp. in Poires Staat, S.E. of New Gumea,

and N. of C. York.

and N. of C. YOYK.

YOYK, N., a tichl estuary of Chesapeake B., U.S.A.,
formed by the meeting, at West Point, of the
Virginian Rs. Panunikey and Martapony.

Yorktown, cap. of Y. co, Virginia, U.S.A., at mth. of
Y. R.; one of the otilet settlements in the State;

valley is 7 m. long, and varies from b in to 2 m. wide. Its scenery is impressive and romantically grand, the whole territory (now a national park) lenne enclosed in rock walls of from 2,000 to 5,000 ft. high; with broken ennences of fantastic shape while every variety of foliage is abundant.

Youghal, sp. on the estuary of the Blickwater, co., Cork, Ireid; fisheries; p. 6,146 Sir Walter Raleigh's house, Myrtle Grove, with parts of the original walls nonse, styrite crove, with parts of the original walls still standing, is an object of instonic interest Raleigh was mayor of the fown in 1.88, and is said to have planted here the first potato grown on British soil. The parish church detection 14.4 Young, Institute N.S.W., 45 m. S.W. Sydney p. (dist.) 12 500.

(dist.) ra 50.)

Young stown, c on the Mahoning R., Ohio U.S.A., in
the Western Reserve; iron initg, centre, p. 80,000.

Yperlee, R. Belgium (4 m.) enters N. Sei tron West
Flanders at Nieuwpoit.

Ypres, t. on R. Yperlee, West Flanders, Belgium,
52 m. S.W. of Bruges; linen and lace manut;
military seld; p. 18,054. Ypres was one of the most
flourishing of Flemish towns in the 14th century,
with over 200,000 inhabitants, and a great diager fourishing of Flemish towns in the 14th century, with over 200,000 inhabitants, and a great diaper industry. Its Gothic Cloth-hall, with its imposing belify, still exists, and dates from the 14th century. Another fine Gothic edifice is the cathedral of St. Martin. Janseu was bishop of Ypres. Yosilanti, c. on R. Huron, Washentaw co., Michigan, U.S.A.; mkt. and mftg. centre, in fanng. regn.;

p. 8,014.
Yrfon, R. Brecknock, Wales; trib. (20 m.) of R. Wye,
Yssel, Rs. of Holland, the Nieuwe Y., an arm of the
Rhine from Arnheim, joins the Oude Y. at Doesburg and flows (abt. 70 m.) as the Y. to the Zuyder Zee, being navigable all the way; the Neder Y. flows into the Meuse above Rotterdam, and is an arm of the

Leck.
Ysselmonde, isl. of S. Holland (15 m. by 5 m.)
Ysselmonde, isl. nr. Le Puy, dep. Haute Loire, France;

Ysselmonde, etc. of S. Holland (15 m. by 5 m.) ysselmgeaux, enr. Le Puy, dep. Haute Loire, France; industri; p. 8.645. Ystad, 544. S. Sweden, on the Baltic nr. Malmo; an anc. and sleepy pl., with 13th centy. churches, and quiet tr. and undustry; p. 9.850. Yetrad-y-fodwg, colly. **par*. on the R. Rhondda, Glamorgansh., S. Wales; now formed into the urbandist. Rhondda (4.74). Yetwith, R. Cardigansh., Wales, flows 35 m. S.E. to the N. Sea. Aberdeansh., Scotl.; flows 35 m. S.E. to the N. Sea.

fubs, R. trib. of the Feather R.; one of the head streams of the Sacramento, in the mining regn, of California, U.S.A.

Yucatan, st. of Mexico, on Caribbean S. and G. of Mexico, adju. Brit. Honduras, area 35,241 sq. m. agr.; p. 337,000; cap. Merida (g.w.). Yucatan abounds in forests of valuable thinber, including abounds in forests of valuable timber, including maltogany, rosewood, and other of the finer kinds; and the fertile plans of the south produce great quantities of maize, rice, and tobacco. Many interesting ruins exist of temples and gigantic edifices, recalling an ancient civilisation of which no other records remain. Since 1852 Yucatan has been annexed to Mexico.

annexed to Mexico.

Yudanamutana, copper-mining dist. S. Australia, 450 in N.W. Addiaide.

Yuea-hwa, t. in prov. Che-kiang, China, N. of Hang-chow-fu; large tr; p. 80,000.

Yuen-Kiang, R. Hu-Nan prov., China (400 m.), ortlet by L. Tung Ting to the Yangtee.

Jukon, R. of Canada and Alaka (2,000 m., navigable 1,200 m.), empities into Behring S.; also ming, terr. in the extreme N.W. of Brit. N. America, containing the Klondyke goldfields, p. 30,000. (See "Gheiral Information" Section.) [prov., China, p. 34,600.

Yuk-Shan, I nr. source of Kan-Kuang R., Klang-Si Yule Mt., Brit. New Guinea, alt. 10,010 Rurma, area 146,456 sq. m.; mutnous.; some of the mountain ranges reach a height of from 12,000 to 17,000 ft.; through the deep defiles run the rivers Mekong, Sulwen, and Shwelt; p. (alt.). 12,000,000; Cap. Yun

Silween, and Shweli p. (abt.) 12,000,000; cap. Yun Nan-fu, t. on L. Tren-hai; mainf. p. 50,000. Yunguera, industri c prov. Malega, Spain, p. 4,886. Yuriez, new oficial name for Dorpat (2,10). Russia.

Yuzgat, t. in Angora vilavet, Asia Minor, built largely out of the runs of Netez Keui (Tavium); fr. in mohair and berries, stock-raising; p. 15,000 (many

Armenians).

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P. 4,453

Zaandam, & on the Y.R., N Holland, nr. Amsterdam; aandam, L on the Y.R., N Holland, nr. Amsterdam; industri; noted for the numerous windinills in the neighbourhood; now mainly htted with steam power; p. 55,186. In the 17th century it had 60 wharves (most of which have now disappeared) and a famous whale fishery. Peter the Great worked as a carpentor in the shipbuilding yard here, and lived in a hut, which was visited by the Czar Alexander in 1814. ab, R. of Assatic Turkey (250 m., divided in Zab Assfal—or Lesser Zab, and Greater Zab); this, to the Thris.

Asial—or Lesser Zab, and Greater Zab); trib. to the Tights.

Zabakano, f. 250 m. N. of Abomey, French W. Act.; Zabern, f. at ft. of a pass over the Vosges, mr. Strasburg, Abscc-Lorraine, Germy, runned castles in neighbourhood; p. 8,860.

Zaborze, nfig. f. in. govt. Oppeln, Prussa. Silesia; in colly. dist.; p. 32,172.

Zacapa, f. on Grande R., Guatemala; industri.; p. Zacatecas, st. of centl. Mexico; area 35,214 sq. mr. rich in silver mines; p. 500,000; cap. Z. thrigg. commol. t. on Mexican Centl. Ry.; p. 44,178.

Zacatula, f. nr. mth. of Boissa R., Guerrero st., Mexico; industri.; p. 8,550. [Russ.; p. 11,960. Zadonsk, Industri. c. on R. Don, Voronezh govt., Zadonsk, Industri. c. on R. Don, Voronezh govt., Zafaran-Boll, c. nr. Angora, Asia Minor; commol. centre; p. 16,500.

Zafaran-Boli, f. nr. Angora, Asia Minor; commel. centre; p. 16,300.
Zaffarano, t. on alope Mt. Etna, nr. Catania, Sicily; Zaffarin Isla, Spaniah possn. off cst. Morocco, in Mediterranean.
Zafra, t. nr. Badlos, Spain; the Roman Julia Resti-Zagarolo, t. (industri.) in prov. Rome, Italy, p. 5,540.
Zagazaig, t. on the Sweet-water Canal, Egypt, en site of anct. Bubastus, 39 m. N.E. of Cairo; centre ef cotton and grn. trade; p. 21,420.

Zagora, Mt., mod. name of Mts. Pelion and Helicon,

Zahes, att, more tame of Mt. Lebanon, 23 miles E. of Beirut, Syrls; p. 15,000.

Zahleh, t. on slope of Mt. Lebanon, 23 miles E. of Beirut, Syrls; p. 15,000.

Zahna, t. in prov. Saxony, Pruss.; 48 m. S.W. of Berlin; battle, 1873; p. 3,012.

Zahringen, wt. Baden, nr. Freiburg; anc. seat of dukes of Z., ancestors of the house of Baden.

dures of L., ancestors of the house of Saden.

Zaisan, f. in prov. Somipalatinsk, Russn. Centl. Asia,
on the Jemen R., nr. the Chinese border, and L.
Zaisan; p. 48t6. The L. lies between the Altai and
Tarbagatai Mins., at an alt. of 1,800 ft., and is 87 m.
long, with an area of 707 sq. m. It has impt. fisheries,
in the hands of the Siberian Cossacks.

Zalamea, f. in Badajos prov., Spain; industrl.; p. 5,018. Zalamea la Real, f. ur. Seville, Spain; commcl. and

manuf.; p. 8,225.
Zalesczyky, f. on R. Dniester, Austrian Galicia; p. 5,844.
Zaloaze, industri. !, on R. Sered, Galicia, Austrin; p.

Description of R. Liba from L. Liba from L. Liba from L. Liba from L. Liba by and L. Dilolo; flows (abt. 1, 500 m.) to the Mozambique Chan. of the Indian O., receiving the R. Chobe and the Rs. Longwa, Kaful, and Shire from L. Nyassa. Upper course of the Z. was first explored by Livingstone; see also Victoria Falls. The Zambesi was Vasco da Gama's "River of Good Signs." It drains more than half a million miles of

Signs. It trains made constructions the retrievery.

Zambesia, British, terr. of S. Afr. now officially included in Rhodesia (q. v.), comprising a regn, N. and W. of the Transvaal Col. and the S. bdny, of the Congo Free State. Northern Zambesia embraces the country between Lakes Tanganyika and Nyassa. There is railway communication between Beltand Call bare Verbiror and Bulawayo, and also the Anere is raiway communication between Beira and Selisbury, Vryburg and Bulawayo, and also the Cape-to-Cairo railway to the Victoria Falls.

Zamboanga, f. at pt. of penin. of Mindanao isl., Philippine grp.; tr. centre in agr. dist.; exports rubber, etc.; p. 18,000.

Zamora, prov. Spain, on Portuguese border; area, Zamora, *prov. Spain, on Portuguese border; area, 4,33 sq. m.; agr., wine-growing, olives, etc.; also live-stock rearing for export; p. 280,114; cap. Z., t. on R. Douro; a frequent res. of the Kings of Castile and Leon; busy commel. centre; p. 17,210. Also name of a S.W. central st. of Venezuela; area, 25,212 sq. m.; p. 350,000; cap. Barinas. Zamosc, or Zamostie, old & Russi. Poland, govt. Lubin; fornerly an impt. fortress; bentwood furniture factory. p. 13,862.

Libbin; rounterly an input courses, personnel state factory, p. 13,800.

Zana, Lake, Abysinia. (See Dembea 1

Zanesville, c. on Muskinguni R., Ohio, U.S.A.; brick and tile manuf, ironwks, &c., p. 28,026.

Zanjan, f. cap. Khamseh prov. Persia, nr. the R.

Zanjaneh; extensive garden dist., impt. bazaar,

Zante, isl, of the Ionian grp., S. of Cephalonia (24 m. by 12 m.), currents and other fruit, p. 48,114; cap. Z., t.

by 12 m.), currants and other fruit, p. 48.114; cap. Z., t. on E. cst., site of anc. c. Zacynthus, p. 18.200.

Zanzibar, sutanate of E. Afr., under Brit protectn., include: the fertile ist. of Z. off the cst. (area & sq. m.), Pemba, and a strip of the maind.; total area 7.420 sq. m., p. 770.002; Zanzibar was under Arabinihuence in the toth century, the Portuguese controlled it from the 19th to the 19th centuries; since 1870 British influence has prevailed over the territories on the mainland, and the Sultan is little more than a figure-head, being a British pensioner, the British Agent and Consul-General having the real governing power vested in him; cap. Z.; t. on the W. cst. of Z. isi., p. 60,000; exports cloves, ivory, rubber, &c. Zapotia, f. in st. Zalisco, Mexico; gd. local tr., p. 21,400.

Zapotia, f. Daimatia, Austria, on the Adriatic; cap. of D. and seat of the Diet; glass-making, com-milling, fishery, &c., p. (include; garrison) 34.805.

D. and seat of the Diet; glass-making, com-mining, fishery, &c., p. (includg, garrison) 34-825.
Zarabad, fortrest N.E. Persia, on Afghan frontier.
Zaragoza. (See Saragoza.)
Zartor, t. in Astrakhan govt., Russ.; industri., p. 8.564.
Zarhon, sacred c. of refuge nr. Meguinez, Morocco, on hilt round tomb of Mulai Idrees I., founder of the Moorish Empire in the 8th centy; nr. are rulns of Roman c. Volubilis.

Zaria, f. in Zeg-Zeg st., Centl. Afr.: now incld. in Brit.

Protectorate of Northern Nigeria, p. (est.) 50,000; tradg, centre.

trange, centre. Zaruma, 1. on R. Zumbez, Ecuador, p. 6,840. Zaslaw, 1. on R. Goryn, Volhynia govt., Russ.; formly, pt. of Lithuania, flourishg. manuf., p. 14,128. [5,214. Zuwoja, 1. nr. Wadowicz, Austn. Galicia; industri., p.

Zuwoja, t. nr. Wadowicz, Austn. Galicia; industri., p. Zayi, ruined. c. of Yucztan, Mexico, nr. Merida. Zbaraaz, f. nr. Tarnopol, Austn. Galicia, p. (com.) 9, rzo. Zea, or Zia, std. of the Cyclades, Greece, with t. on same; the anc. Ceos.
Zealand, or Zeeland, S.W. prov. Holland, on N. Sea; area 690 sq. m., comprises isls. at mth. of R. Scheldt, p. 220,200, cap. Middleburg.
Zealand, std. of Denmark. 1See Seeland).
Zebayer, grp. of std. in Red Sea; volcanic.
Zebid, tortid. & Yemen, Arabia, 100 m. S.W. of Sana,

p. 7,246.

Zebu, or Cebu, isl. of the Philippine grp., E. of Negros, 135 m. long, p. 330,000; cap. C., on E. est., p. 15,110. Zeeland,

p. 15,170.

Zeeland. (Sep Zealand and Seeland); also vil. nr. Grand Rapids, Ottawa co., Michigan, U.S.A., p. 3,184.

Zeerust, goldfield disk, in W. of Transvaal Col., Brit. S. Afr., 36 m. S.S.W. of Mafeking.

Zeg-Zeg. st. in Brit. Northern Nigeria, Afr., cap. Zaria (g.v.).

Zehri, & nr. Khelat, Jhalawan prov., Baluchistan, p. Zelila, or Zaylah, & on G. of Aden, E. Afr., occupied by Briteshan 200.

Zenn, i. .... Zella, or Zayiah, f. on G. of Atten, a. .... [6,465. Zella, or Zayiah, f. on G. of Atten, a. .... [6,465. Zelist, or Zeligat, industri. vii. Holland, nr. Utrecht, p. Zelithun, f. in Asia Munor (the anc. Cilica), p. (abc.) 20,000, Armentan Christiaus mainly, who gallantly held out during the massacres of 1895 against the

Turks.

Zeitz, t. on the White Elster R., nr. Leipzig, prov.
Saxony, Pruss.; textile factories; perambulators and
pianoforte making; p. 90,117.

Zeiaya, t. in Guanjuato prov., Mexico; gd. local tr.,
Zeie, t. nr. Dendermonde, E. Flanders, Belglum;
industri.; p. 33,680. industri.; p. 13,680. [of L. of Constance, Zell, Lake of, or Unter See, lower part (12 m. long) Zellerfeld, t. in Hanover, nr. Clausthal; industri.; p.

Zembra, sm. isl at entce, to G. of Tunis, N. Afr. Zempelburg, or Zemplen, t. in West Pruss., nr. Marienwerder; p. 3,814.
Zeng, or Szeny, forifd. 59t. Croatia, nr. Carlstadt; p.

3.254.
Zenjan, 4. Persia, prov. Irak-Ajemi; 133 m. N. o. Hamadan; unpt. commerci centre; p. 15,860.

Haimadan; impt. commerch centre; p. 15,800.
Zenta, or Szentes (p./n.).
Zerafshan, or Zarafshan, govt. Russn. Turkestan, prov. Samarkand, E. of Bokhara; area 19,664 sq. m.; p. (abt.) 400,000. Cap. Samarkand (p./v.).
Zerbat, r. ir. Magdeburg, Anhait Duchy, Germy, ; walled, with mosts and towers gold and silver when the mother and taraby ments.

thread mkg., mchy., and starch manuf.; p. 18,220.

Zermatt, min. hanlet at it. of Matterhorn, cant, Valais, Switzid; one of the ch. tourist centres in the

Alps; permt. p. 800. [Industri.; p. 7,444. Zeulenroda, £. nr. Greiz, Reuss-Greitz, Germy.; Zevenbergen, mftg. £. nr. Breda, N. Brabant, Holland; p. 6,880,

D. 6,880. Zevis, f. on R. Adige, nr. Verona, Italy; p. 6,413. Zhitomir, f. cap. Volhynia govt., Russ.; an anc. Lithuanian c., with large Jewish community and

impt. commerce; p. 70,500.

Zhizdra, industri. t. Kaluga govt., Russ.; p. 12,246.

Ziegenhels, t. nr. Oppeln, Prussn. Silesia; manuf.;

D. 6,872.

Zierikzee, t. in pro. Zealand, Holland, on isl. of Schouwen, 27 m. E. Flushing; p. 7,428.

Zilah, t. cap. Szilágy co., Hungary; large wine tr.; p.

7,883. Zilgia, t. nr. Khoten, Chinese Turkestan; gd. local

Ziigia, t. nr. Khoten, Chinese Turkestan; gd. local tr.; p. 8,225.
Zilleh, f. nr. Tokat, Asia Minor; annual fair; p. 2,378.
Zillerthal, beautiful Tyrolese valley, watered by R. Ziller, tho, (go m.) of R. Inn; p. 15,000.
Zillerthaler Alpa, mtm. prp. in the Tyrol, extendg. E. from Brenner to Hohe Tauern.
Zimbabwe, ruined c. in Maslomaland, Brit, S. Afr.; 3,300 ft. above sea-level; discovered by Mauch in 1271.

Zieder, impt. t. on N. margin Centi. Soudan, Africa (French), emporium for tr. betwn. Hausa and Tripoli across the Sahara; p. 10,000.

Zingst, isi. of Pomerania, Prusa., in the Baltic, nr. Straisund.

Straisund.

Zittan, t. on R. Mandau, Saxony, nr. the Bohemian and Silesian frontiers; linen and danask manuf., and commerci. centre in collery dist.; p. 3,502.

Zizkov, industri. t. in Bohemia, sub. to Frague; p.

70,640. Ziātusk, £ in the Urals govt. Ufa, Russ.; manuf. and

ZMRUSK, r. in the Urais govt. Uta, Russ.; manuf. and fr.; p. 20,95.
Zlocsow, f. on trib. of R. Bug, nr. Lemberg, Austria-Gilicia; linen manuf.; p. 13,560.
Znaim, f. in Moravia, Austria, 50 m. N. of Vienna; textiles, earthenware and vinegar manuf.; p. 17,415.
Zola, industri. commune nr. Bologna c., Italy;

p. 6,260.
Zolotonsha, mftg. f. in Poltava govt., Russ.; p. 9,124.
Zombor, industri. f. nr. Szedin, Hungary; cap. of cc.

Bács.; p. 26,588, Zondrenide Míns., range in Caledon div. Cape Col.,

Brit. S. Afr.; average height 4,000 ft.

Zorndorf, vil. of Brandenburg, 5 m. N. of Kustrin.

Here Frederick the Great defeated the Russians, Aug. 25, 1758.

Zoutpansberg, mtnous. dist. in N.E. Transvaal Col., S. Afr.; gold-fields.

S. AIT.; gold-neids. Zschoppa, t. on R. Z., 26 m. E. Zwickau, Saxony; p. 8, 124; industri. Zuai, L. E. Afr., receives Maki and Catara Rs.; alt.

6,040 ft.

Zug, smist, of the Swiss cantons (centl.); area of Sug, smist, of the Swiss cantons (centl.); area of Sug, m.; p. 284,00. Cap. Z. on L. of Z., 13 m. N.E. Lucerne; notable landslips, 1435 and 1887; p. 6,500. The L. of Z. 68 m. long, 2 m. wide) has its outlet

The L. of Z. (8 m. long, 2 m. wide) has its outlet by the R. Lorzo.
Zujar, 4. nr. Granada, Spain; p. 4.0 to.
Zujar, 4. nr. Granada, Spain; p. 4.0 to.
Zujiar, 4. venezuela, on Caribbean S.; p. 60, 500.
Zujialichau, 4. 50 m. E. Frankfort-on-the-Oder, Brandenburg prov. Pruss.; Russn. vict. 1795; p. 8, 140.
Zujujiand, Brit. *protectorate* in S.E. Afr., part of the col. of Natal since 1897; area 11.000 sq. m.; p. 150,000. The mineral resources of the country are considerable, including gold, silver, lead, copper, tin. In 1878 war broke out between England and the then chief of Zujujiand, Cetewayo, involving serious disaster to the British forces at Isandula, Ian. 22. 2870. but bringing final victory to British Jan. 22, 1879, but bringing final victory to British arms on July 4, 1880, at Ulundi. It was in this can paign that the French Prince Imperial lost his life. Zumbo, Port, outpost on Zambosi R., E. Africa, 500 m. from Sea.

Zumpango, t. in Mexico, 30 m. N. of M. c.; p. 4,884. Zungarica, Soungaria or Dzungaria, country N. of E. Turkestan; formerly Chinese terr., but now in-

Turkestan; formerly Chinese terr., but now included in Asiatic Russ.

Zurich, cant. Switzid., bounded N. by R. Rhine area 665 sq. m.; contains large part of L. of Z. (25 m. long, 2j m. wide) and sevt. other lakes; traversed by hills and low mins.; pastoral, agr., forest, and vineyards; many mamils. gd. trade; p. (rapidly increasing) 500,000. Cap. Z., most inpt. and

populous t. in Switzid. Contains Swiss National Museum, cathedrat, and many fine bldgs, and educati. Instns.; Industries and commerce pros-perous; p. 190,116. Zwingii was pastor of the cathedral, and Lavater pastor of Peterskirche, Fuseli was a native of Zurich.

cathedral, and Lavater pastor of Peteraldriche, Fuseli was a native of Zurich.
Zuruma, t. on. W. slope of the Andes of Ecuador, industri. p. 6.500.
Zutphen, fort. t. on R. Yssel, Gelderland, Holland, nr. Arnheim; brisk tr.; p. 20,560. The principal buildings of Zutphen are the Great Church [1702], restored in 1857, and the Wijn Huis tower. The town has been several times besieged. It was in a akirmish on the field of Warnsfeld near here that Sir Philip Sydney received the wound from which he afterwards died, in 1566.
Zuyder Zee, gwl/ or arm of the N. Sea, formerly a lake; enlarged by inundaths, in the 13th, centy; area 2.03y sq. m. (max. length 8g m., breadth 4g m.); mean depth 1st ft. The islands of Texel, Vileiand, Terschelling, Ameland, and Schiermonikoog, stretch; in a chain across the entrance, and mark what was the old coast-line. Within the Zuyder Zee are the islands of Vileringen, Urk, Schokland, and Marken, From 1820 to 1854 a royal commission had under consideration a scheme for draining the Zee and reclaiming some 750 st. m. at a cost of £56,00,000, which was recommended for adoption, but has not been carried out. been carried out.

Zvenigorodka, t. in Kiev govt. Russ.; flour mills, and distilleries, grain tr.; p. 18,246.
Zvornik, t. on R. Dvina, Bosnia; gd. local tr.; p.

Zusmiteres, general programmers, and trained and trained and a construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the con

Zwatzau, s. nr. Brunu, Moravia; on the Bohemian frontier; p. (com.) 8,4rc.
Zwolle, s. nr. Zutphen, Holland, cap. Overyssel, on the Zwarte Water; formerly a Hanseatic city; great cattle mart; p. 2,720. At the monastery of Agnetenburg close by Thomas à Kempis lived and died. died.

Zwyndracht, vil. on R. Meuse, S. Holland, nr. Rot-terdam; industrl.; p. 3,146. Zwyndrecht, t. on R. Scheldt, E. Flanders, Belgium,

nr. Dendermonde; gd. tr.; p. 3.943.
Zywiec, or Saybusch, Industri. & m Austrian Galicia, on R. Sola, nr. Bichtz; p. 4,946.

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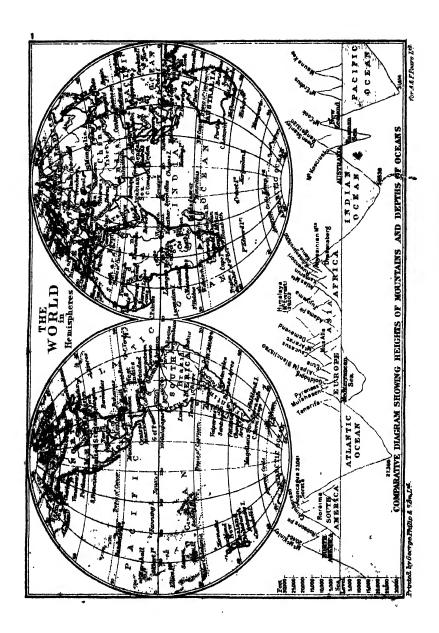
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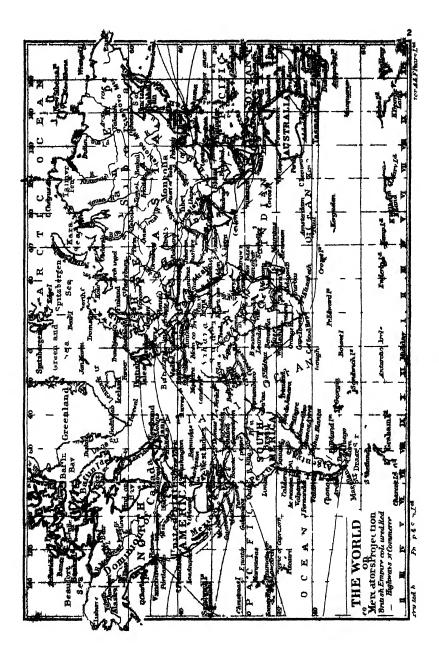
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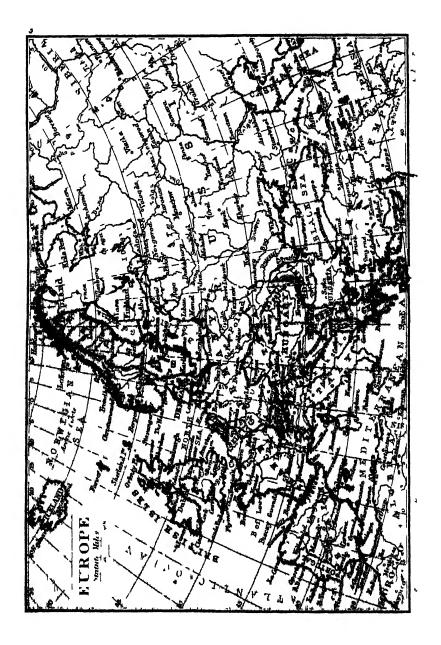
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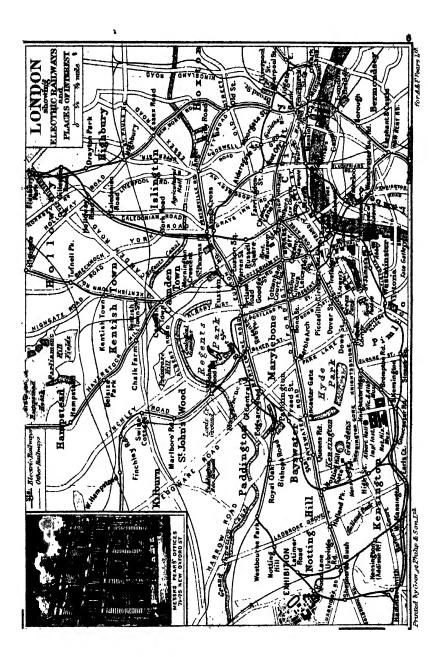


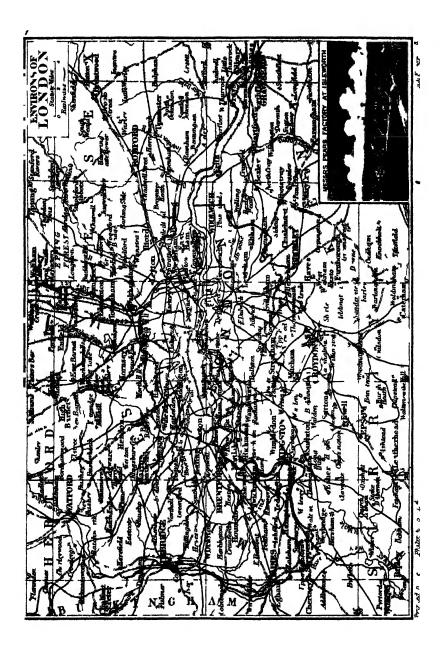


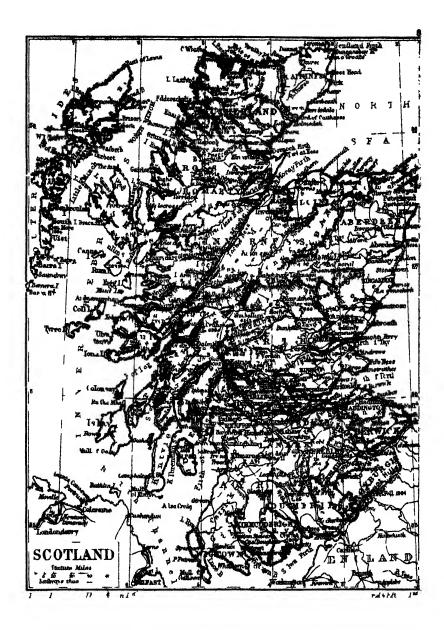


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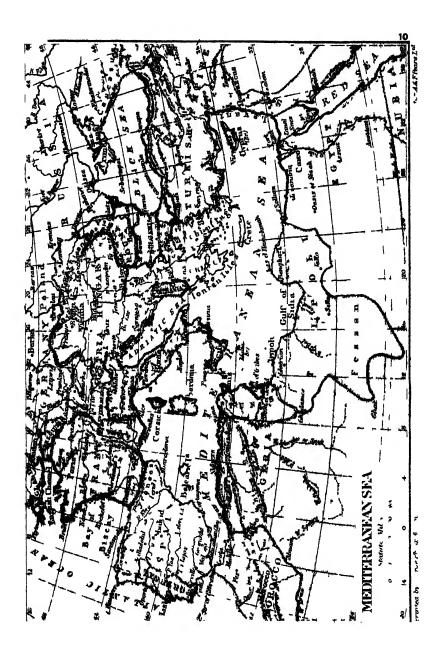


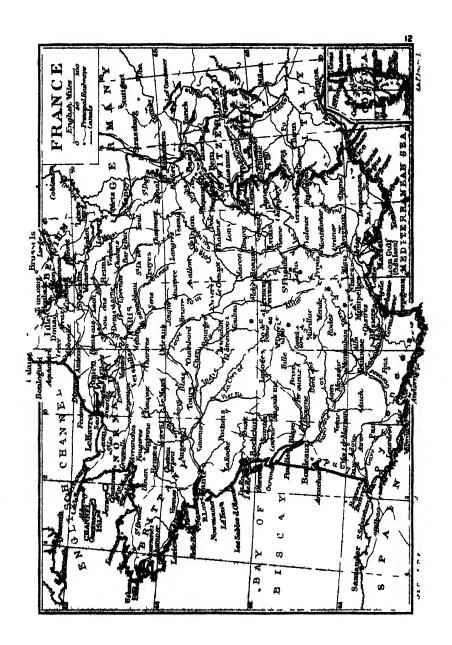


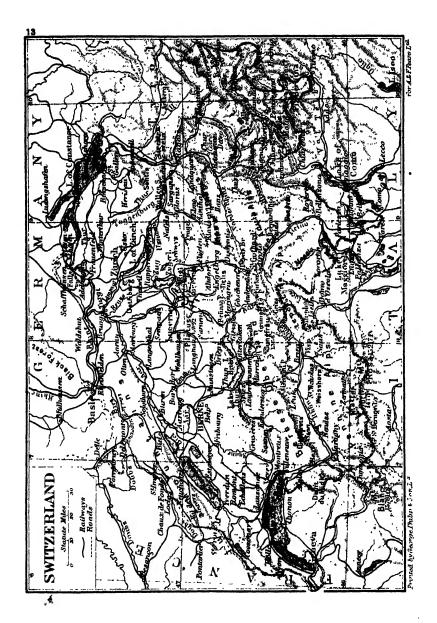






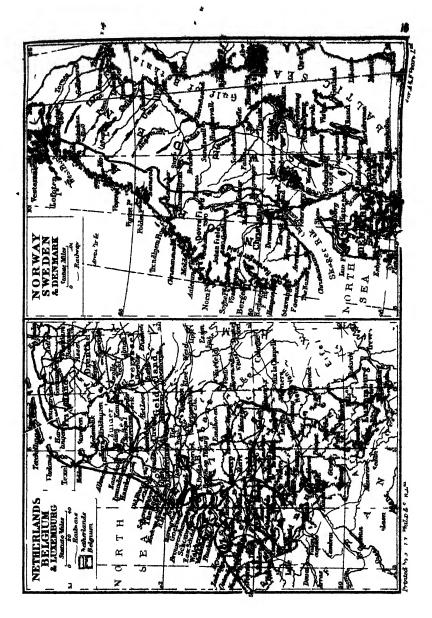


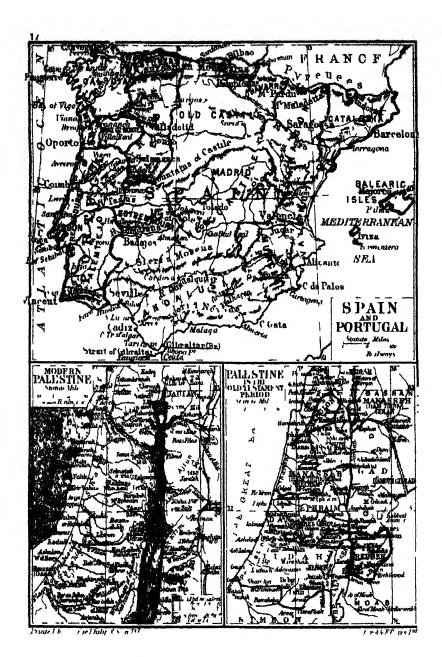




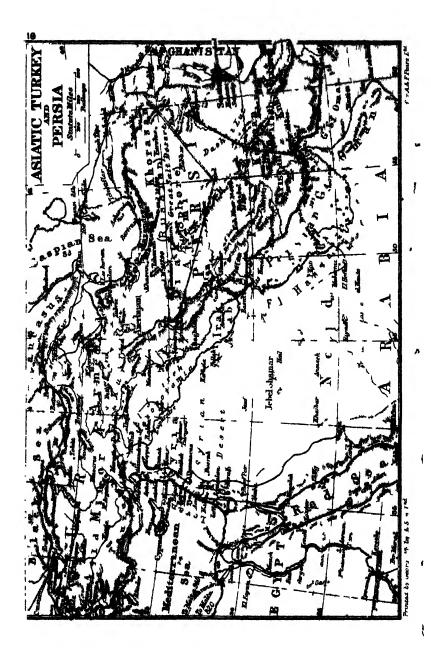


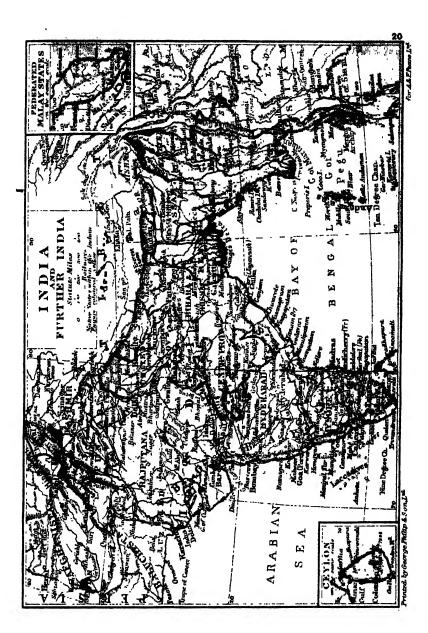










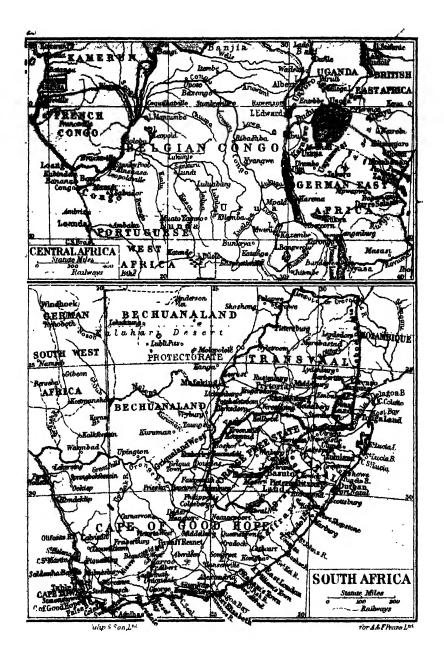


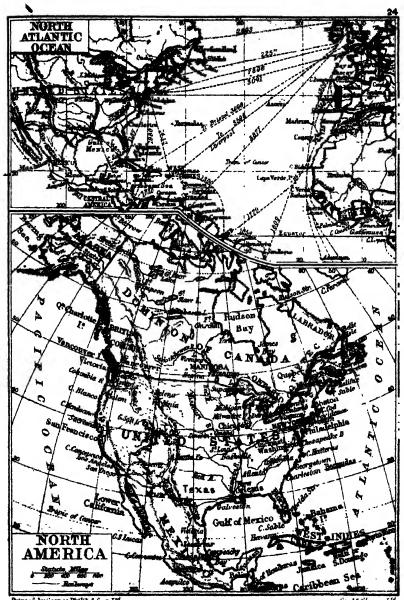




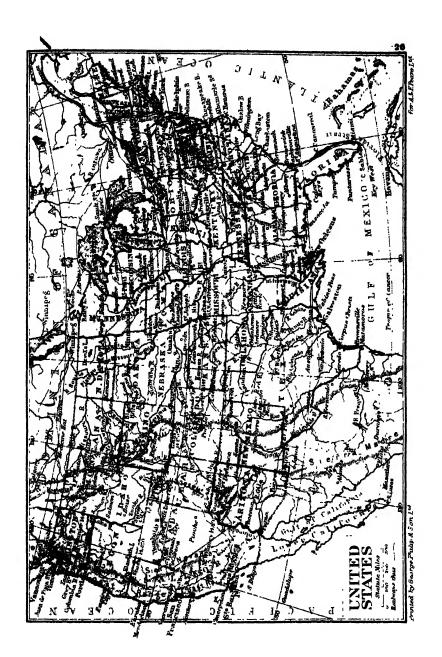
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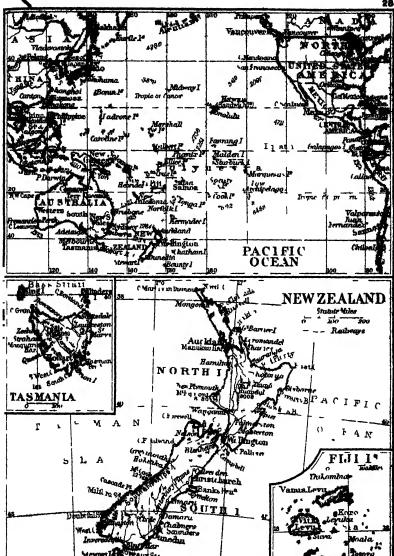








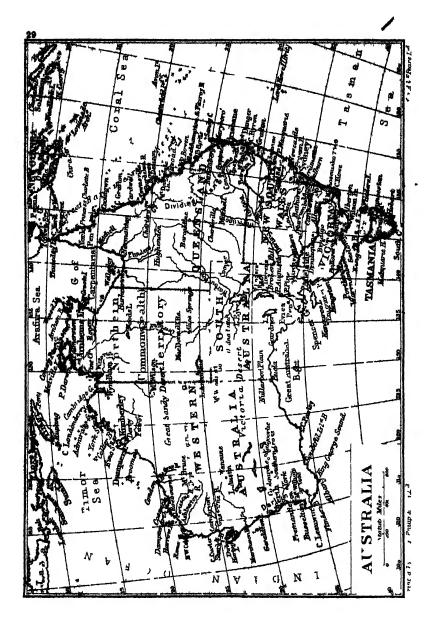
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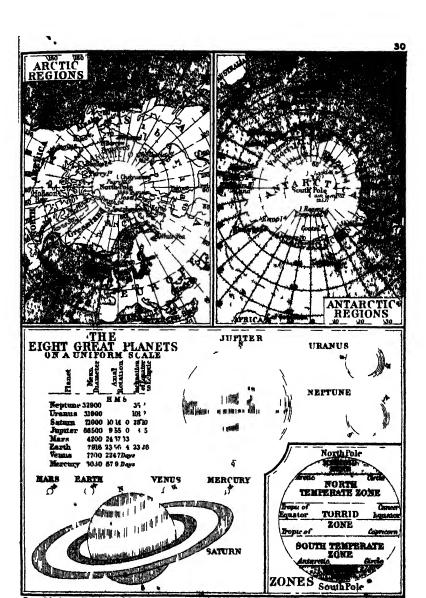


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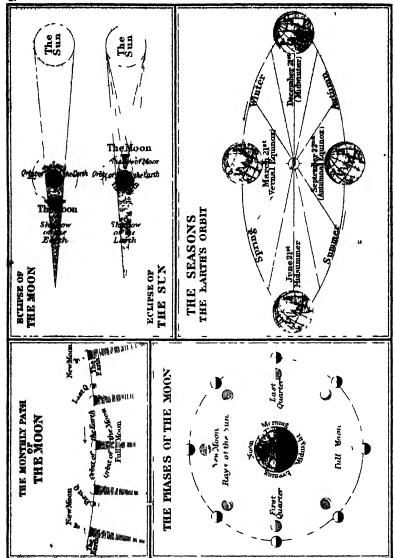
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# Pears' Dictionary of Events

SETTING FORTH IN CHRONOLOGICAL ORDER THE LEADING EVENTS

IN THE HISTORY OF THE WORLD.

In the record of the years here set down, it has only been possible to mention in the briefest manner the principal events in the world's history, with the dates of their occurrence. The story is naturally fullest in relation to our own country, but few of the more important facts in the history of other countries have been passed over; and in this issue a special feature is made of a Chronicle of the War, the record being brought up to the date of going to press.

```
B C.
2284 Chaldean astronomical observations begun,
                                                                                                                                                                                                                                      B C.
                                                                                                                                                                                                                                                             Diogenes b.
Constitution of the Four Hundred at Athens.
2284
2200
1273
1200
1100
1055
1012
1000
900
                              His dynasty founded in China.
Assyrian empire founded.
                                                                                                                                                                                                                                       412
                                                                                                                                                                                                                                                              Foundation of Rhodes.
                                                                                                                                                                                                                                                              Athens taken by Lysauder.
Democratic government restored at Athens.
Retreat of 10,000 Greeks.
                               Period of Trojan war.
                                                                                                                                                                                                                                       404
403
                              Chow dynasty founded in China.
David king of Israel.
Building of Solomon's temple.
Homer flourished.
                                                                                                                                                                                                                                       403
401
399
385
384
379
                                                                                                                                                                                                                                                             Death of Socra'es.
Demosthenes b.
  1012 Building of Solomon's temple.
1000 more flourished.
1001 North-west Palace of Nimrond built; fall of North-west Palace of Nimrond built; fall of North-west Palace of Nimrond built; fall of North-west Palace of Nimrond built; fall of North-west Palace of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of Nimrond built; fall of All built, fall of Nimrond built; fall of All built, fall of Nimrond built; fall of All built, fall of Nimrond built; fall of All built, fall of Nimrond built; fall of All built, fall of Nimrond built; fall of All built, fall of Nimrond built; fall of All built, fall of Nimrond built, fall of Nimrond built; fall of All built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built; fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Nimrond built, fall of Ni
                                                                                                                                                                                                                                                            Demosthenes b.
Arristotle b.
Lacedæmonians expelled from Thebes.
Spartans defeated by Chabrus off Naxos.
Athens and Sparta make peace.
Spartans defeated by Epaminondas at Leuctra.
Aristotle proceeds to Athens to Join Plato.
Pratorship instituted at Rome.
Epaminondas slain at the battle of Mantinea
Philip becomes king of Macedonia.
Chios and Byzantim besteged.
Philip captures Amplipolis.
Sacred war begins—Phocians take Delphi.
                          North-west Palace of Nimroud built; fall of
                                                                                                                                                                                                                                       376
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                                                                                                                                                                                                                                      358
                                                                                                                                                                                                                                    Tures Ampipona.

257 Sacred war begins—Phocians take Delphi.

256 Alexander the Great b. Temple of Ephesus destroyed by fire.

257 Ephesus and Chios proclaimed Strict Philippic of Democthenes delivered.
                                                                                                                                                                                                                                    355
352
346
343
340
338
                                                                                                                                                                                                                                                              Sacred war ends.
                                                                                                                                                                                                                                                              Timoleon conquers Syracuse.
                                                                                                                                                                                                                                                             First Samnite war.
                                                                                                                                                                                                                                                             Hattle of Chæronea. Greece subdued,
Murder of Philip—Alexander succeeds.
Alexander destroys Thebes, and becomes chief
                                                                                                                                                                                                                                      336
335
                                                                                                                                                                                                                                                                      of the Greek army.
                                                                                                                                                                                                                                       334
333
                                                                                                                                                                                                                                                              Battle of Granicus.
                                                                                                                                                                                                                                                             Battle of Issus.
Conquest of Egypt and Tyre, and foundation of Alexandria.
                                                                                                                                                                                                                                       222
                                                                                                                                                                                                                                       331
                                                                                                                                                                                                                                                               Battle of Arbela and subjugation of Persia
                                                                                                                                                                                                                                       330
327
323
                                                                                                                                                                                                                                                              Darius murdered.
                                                                                                                                                                                                                                                             Alexander's expedition to India.

Death of Alexander; his empire divided.

Second Samnite war.
                                                                                                                                                                                                                                       321
                                                                                                                                                                                                                                                               Romans surrender to the Samnites
                                                                                                                                                                                                                                                             Romans surrender to the Samnites,
Ptoleny carries too,ooo Jews into Egypt.
Cassander restores Thebes.
Battle of Gaza. Appain way constructed,
Rhodes taken by Demetrius.
Athens taken by Demetrius.
Third Samnite war.
                                                                                                                                                                                                                                    320
315
312
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287
284
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279
                                                                                                                                                                                                                                                              Battle of Sentinum.
                                                                                                                                                                                                                                                          Nattle of Sentinum.
Archimedes b.
Alexandrian library founded.
Pyrrhus inwades Italy.
Gauls in Greece: driven out into Asia.
Pyrrhus defeated at Reneventum.
First Punic war beguns.
                              Pericles obtains supreme power at Athens,
      481 Peloponnesian war began—lasted 27 years;
death of Pericles; Plato b.
     Revolt of Mytilene [phanes flourished.
First Athenian expedition to Sicily; Aristo-
```

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8.C. Regulus victorious at Ecnomus; Invasion of 7s in dynasty founded in China. 941 Arthaginians defeated by Catulus; end of first Punic war.
237 Spain conquered by the Carthaginians. Sardina and Corsica taken by the Romans.
218 Hamibal besieges Saguntum; second Punic
                                                                                                                                                                   A.D. 161 Marcus Aurelius and Lucius Verus become
                                                                                                                                                                                    joint emperors.

Verus d. M. Aurelius sole emperor.

Emperor Pertinax assassinated.
                                                                                                                                                                   193
194
208
209
                                                                                                                                                                                  Severus emperor.
Severus invades Britain.
Wall of Severus built
Severus d. at York; Caracalla and Geta
Geta put to death.
                                                                                                                                                                   911
919
999
998
938
    war begins.

216 Hannibal marches from Spain into Italy.

217 Hannibal crosses the Apennines; Battle of

218 Battle of Cannie. [Lake Trasunenus,
                                                                                                                                                                                    Alexander Severus emperor.
                                                                                                                                                                                    Artaxerxes ruler of new Persian empire.
Alex. Severus assassinated.
Maximin emperor.
                    Syracuse captured by Marcellus.

Defeat and death of the two Scipios; First
                                                                                                                                                                   235
240
250
                   Macedonian war.
Siege of Utica.
Hannibal suffers defeat at Zama.
End of Second Punic war; first Macedonian Second Macedonian war beguns.

[war.]
                                                                                                                                                                                    Decius emperor.
                                                                                                                                                                                    Goths invade Roman empire
    302
301
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260
                                                                                                                                                                                   Gallus emperor.
Franks invade Gaul.
                    Flaminus defeats Philip at Battle of Cynos-
Death of Plantus. Perseus king of Macedonia. Third Macedonia war. Ierusalem teken berken ber
     200
                                                                                                                                                                                    Gallienus emperor.
    197
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                                                                                                                                                                                   Franks again invade Gaul.
Scythians and Goths defeated by Romans.
                                                                                                                                                                   263
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                                                                                                                                                                                   Claudius emperor.
                                                                                                                                                                                    Aurelian emperor.
Tacitus emperor.
                    Jerusalem taken by Antiochus Epiphanes.
Judas Maccabeus revolts.
Terence's first comedy acted at Rome; Jews
Death of Terence.
[delivered from Syrians.
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Diocletian emperor
Constantius in Britan:
Diocletian lays siege to Alexandria.
Martyrtloin of St. Alban.
Constantius and Galerius emperors.
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         59 Death of Terence. [delivered from Syrians. 150 Third Punic war begins. 151 Third Punic war begins. 152 Third Punic war begins the Achæan League; Carthage destroyed by Scippo; Cornth destroyed. [Gracchus sassasinated. 338 Laws of Tiberius Gracchus passed at Rome;
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                                                                                                                                                                                                                                                                                     [claimed.
                                                                                                                                                                                    Constantius dies at York; Constantine pro-
                                                                                                                                                                                  Constantine sole emperor,
Constantine sole emperor,
Constantinople founded,
Council of Nice; Nicene Creed sottled,
Constantine II., Constantius II., and Constantine
Light emperors.
                    Pompey and Cicero b.
   108 Marius gains victory over Teutones at Aquæ
Sextiæ (Aix); 200,000 killod.
101 Marius defeats Cimbri at Vercellæ; 120,000
slain, 60,000 prisoners; end of war.
100 Julius Cæsar b.
95 Lucretius b
                                                                                                                                                                 337
361
363
364
373
                                                                                                                                                                                 Constantine II., Constantius II., and Constans Juhan emperor. Joint emperors. Julian killed Valentiman and Valeus Joint emperors; Roman Death of Athanasius. Invasion of the Ilium. Alaric king of the Goths. Honorius emperor of the West. Theodosus loids supreme sway. Death of Theodosus.
                    Lucretius b
First Mithridatic war.
Death of Marius.
                                                                                                                                                                   375
                                                                                                                                                                  382
                                                                                                                                                                393
394
395
        62
                     Sylla, Roman dictator.
Third Mithridatic war.
        74
                                                                                                                                                                                 Death of Theotiosus.
Alaric overruns Italy.
Rome sacked by Alaric.
Roman legions leave Britain.
Vandals tavade Africa.
Attila made king of the Huns.
Vandals attack Carthage
                     Pompey and Crassus consuls: Virgil b
                                                                                                                                                                  400
                   Pompey and Crassus consuls; Virgil b Pompey conquers Syria Jerusalom taken. [and Crassus First Triumvirate formed—Pompey, Cæsar, Livy b. Cæsar Livades Britain. Subjugation of Gaul by Cæsar completed. Pompey driven from Italy, Cæsar dictator. Pompey murdered in Egypt. War in Egypt. Africau war.
        62
                                                                                                                                                                 411
429
        60
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433
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453
                                                                                                                                                                                 vancias attack Carthige
Invasion of Jutes under Hengist and Horsa.
Aifila invades Gaul.
Venice founded.
Death of Attila.
        51
         ä
         47
        馥
                                                                                                                                                                  457
                                                                                                                                                                                   Kingdom of Kent established by Hengist.
                     African war.
46 African war.
45 Casar made dictator for life,
46 Casar murdered; Antony seizes Rome,
49 Death of Brutus and Cassius,
41 Antony and Cleopatra meet at Tarsus.
40 Herod becomes king of the Jews.
31 Roman empire established.
18 Imperal dignity reconferred on Augustus.
17-7 Herod rebuilds Temple at Jerusalom.
                                                                                                                                                                                 First invasion of Britain by Saxons.
Clovis king of the Franks.
Theodoric conquers Italy, and becomes king.
West Saxons land in Britain.
                                                                                                                                                                 477
                                                                                                                                                                 482
489
405
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536
540
546
552
                                                                                                                                                                                 Justinian emperor
Belisarius captures Rome
                                                                                                                                                                                 Belisarius captures Ravenna.
Totila takes Rome.
                                                                                                                                                                                  Narses takes Rome.
                                                                                                                                                                                Narse- takes Rome.
Furst English Abbey founded at Bangor.
Justman and Belisarius die; Ethelbert king or
Kent; Christansty preached anongst the
Mahomet proclaums Islamsm. [Picts.
Ethelfrith tounds kingdom of Northumbria.
Augustine in England.
Canterbury made seat of archbishoptic.
See of London established.
Jerusalem taken by Caliph Omar.
Theodorus first "Sovereign Pontiff" of Rome.
                                                                                                                                                                560
565
                                             BIRTH OF CHRIST.
                   Tiberius invades Germany.
                                                                                                                                                                569
593
                    Death of Augustus.
The Crucifixion.
                                                                                                                                                                597
602
604
637
642
                    Caligula becomes emperor.
Claudius emperor on assassination of Caligula
Claudius invades Britain.
London founded by Roman;
Caractacus taken prisoner to Rome.
        47
                                                                                                                                                                                 Saracens destroy Carthage.
                    Noro emperor.
Boadicea leads Britons against Romans,
Jerusalem taken by Titus.
Destruction of Poupell and Herculaneum.
                                                                                                                                                                710
714
721
723
                                                                                                                                                                                 Saracens invade Spain.
                                                                                                                                                                                 Charles Martel ruler of France.
                                                                                                                                                                                  Saracens invade France.
                                                                                                                                                                                Saracens conquer Sardinia
Death of the Venerable Bede.
Charles Martel dies.
Bagdad founded.
                     Dacian war begins.
                     Trajan emperor
Hadrian emperor.
Hadrian in Britain.
                                                                                                                                                               735
741
763
                                                                                                                                                                                 Charlemagne and Carloman kings of the Clarlemagne reigns alone. (Franka,
                     Hadrian's wall built.
Antoninus Pius emperor.
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Haroun al Raschid becomes Caliph of Bagdad.
                                                                                                                                                                                                                                                                                                                                                     1265 First British Commons meet; battle of Eve-
                                                                                                                                                                                                                                                                                                                                                                                           First British Commons meet; battle of Evesham, De Montfort killed.
Roger Bacon presents lus Opus Majus to Pope Clement IV.
Gement IV.
Gement IV.
Gement IV.
Sichlan Vespers" massacre; Edward I. conquers Wales.
Jewe expelled from England.
First regular English Parliament.
Edward I. subdues Scotland.
Battle of String, Wallace victorious.
Battle of Falkirk, Edward I. defeats Wallace.
Hedward I. captures String.
Wallace executed in Sintifield.
Robert Bruce king of Scotland.
Edward II. king of England.
Boccaccio b.; Edward Bruce besieges String.
Battle of Bannockburn.
Edw. Bruce defeated and killed at Dundalk.
          785
          787
814
                                               Danes invade England.
                                          Dates invade England.
Death of Charlemagne.
Egbert overlord of England's kingdoms.
Alfred the Great born.
Death of Ethelwalf; Ethelbald is succeeds.
Death of Ethelbald; Ethelbert succeeds.
Death of Ethelbald; Ethelbert succeeds.
Alfred king of Wessex on death of Ethelbed.
Alfred king of Wessex on death of Ethelbed.
Alfred defeats Danes at Ethandune.
                                                                                                                                                                                                                                                                                                                                                   1266
          827
          849
857
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            866
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                                                 Rome taken by Arnoiph of Germany.
Theodora's supremacy in Rome.
Saracens defeated in Spain, 70,000 slain.
Edmund king of Wessex.
              908
916 Saracens defeated in Spain, 70,000 slain.
940 Edmind king of Wessex.
943 Dunstan rises to power.
944 Edred king of Wessex.
945 Edred king of Wessex.
946 Edred king of Wessex.
947 Edred king of Wessex.
948 Edward the Martyr king of England.
948 Edward the Martyr king of England.
949 Edward assassinated; I killered the Unready
947 Hugh Capet king of France.
1012 Sweyn of Denmark subdues England.
1014 Edward the Smith State of England.
1016 Edward I Hardicanute uncceeds.
1040 Death of Harold; Hardicanute uncceeds.
1041 Edward the Confessor king of England.
1057 Malcolm III. king of Stotland.
1058 Harold II. king of England; Oct. 14, Battle of Hastings, Harold slain; Wilham the Conqueror assumes the kingship.
1068 Completion of Domesday Book.
1069 William II. (Kufus) king of England.
1069 Coctch invision under Malcolm III.
1060 Edgar king of Scotland.
1067 Harold Congressor in the Single of Almerick.
1068 Edgar king of Scotland.
1069 Edgar king of Scotland.
1069 Edgar king of Scotland.
1069 Edgar king of Scotland.
1069 Edgar king of Scotland.
1069 Capture of Jerusalem; Knights of St. John William II. killed in New Ferest; Henry I.
     916
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                                                                                                                                                                                                                                                                                                                                                                                                      Edw. Bruce defeated and killed at Dundalk.
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1333
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Hedward III. king of England.

David II. (Bruce) king of Scotland,

Scotland invaded by Edward III.

Edward III. defeats Scots at Halidon Hill.
                                                                                                                                                                                                                                                                                                                                                                                                    Edward III. defeats Scots at Halldon Hill.
France invaded by Edward III. [Sluys.
Edward obtains victory over French fieet at
Battle of Creey, Edward III. defeated French.
Calais captured by the English.
Black Doath plague makes its appearance.
Statute of labourers passed in England.
Order of the Garter instituted.
Rienzi inade Senator of Rome
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Battle of Poictiers, English defeat French.
                                                                                                                                                                                                                                                                                                                                                                                                    Tamerlane in Persia.
Edward I., Black Prince, d.
Richard II. king of England.
                                                                                                                                                                                                                                                                                                                                                      1376
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1381
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1377 Richard II. king of England.
1380 Thomas & Kenipis I.
1380 Thomas & Kenipis I.
1381 Poli tax established in England; peasant rising under Wat Tyler.
1384 Death of Wychif.
1385 Exots invade England, and Richard II. retalates by taking Edinburgh.
1386 Duke of Gloucester made Regent.
1387 Barons seize Tower of London.
1388 Another invasion of England by Scots; battle of Otterburn, Scots victorious.
1397 Duke of Gloucester midrefered. [England, 1399 Richard II. deposed, Henry IV. king of Otterburn, Scots victorious.
1400 Revolt in Wales headed by Owen Glendower.
1402 Scots defeat at Homildon Hill, Sept. 14.
1403 Battle of Shrewslury, the Percys defeated.
1403 Hattle of Shrewslury, the Percys defeated.
1416 James I., king of Scotland, seized and imprisoned in Tower of London.
1417 Henry V. king of England.
1418 Council of Constance.
1419 Henry V. takes Caen.
1420 Henry V. takes Caen.
1421 Henry V. takes Caen.
1422 Henry V. It king of France.
1423 English lay siege to Orleans.
1430 Joan of Arc tentres Orleans.
1430 Joan of Arc made prisoner.
1431 Joan of Arc marter Strieum.
1432 James I. of Scotland ilberated and crowned.
1432 James I. of Scotland unrefered.
1433 Joan of Arc made prisoner.
1435 Duke of York proclaimed Protector.
1446 Duke of York Proclaimed Protector.
1450 Leonardo da Vinci b.
1451 Second battle of St. Albans (May 23) beginning the Wars of the Roses.
1460 Battle of Natchampton, Henry VI. taken prisoner; Battle of St. Albans (May 23) beginning the Wars of the Roses.
1460 Battle of Henry W. confined in the Tower and deposed;
1468 Battle of Henry M. Londed in Prover and deposed;
1468 Battle of Henry M. Confined in the Tower and deposed;
1467 Erasmus b.
                                                                                                                                                                                                                                                                                                                                                                                                      Halley's comet first noted.
                                                   Edgar king of Scotland. [instituted. Capture of Jerusalem; Knights of St. John Wilham II. killed in New Ferest; Henry I.
                                                 Capture of Jerusalem; Knights of St. John Wilham II. kulled in New Ferest; Henry I. succeeded. Order of Knights Templars established. Stephen king of England. Stephen king of England. [Winclester. Market Stephen king of Scotland defoated. [Winclester. Market Stephen king of Scotland defoated. Henry II. king of England. [Adrian IV. Nicholas Breakspeare, an Englishman, Pope as a Becket, rachip. Canterbury. Henry and a Becket reconcled; Dec. 26 Assassnation of a Becket Ecket Saladin sultan of Egypt; a Becket ranonised. Saladin defeated by Kenaud de Chatillon. Carthusian monastenes established in England. Guy of Lusjman marke king of Jerusalem. Saladin takes Jerusalem; Third Crusade. Siege of Ace; Richard I. king of England. Richard embarks for the Crusade.
       1100
       1118
       1135
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        1170
       1178
1177
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1190
1191
                                                      Rushard held captive by Leopold duke of Death of Saladiu.
        1192
1193
1198
1199
1202
1203
                                                        Richard defeats French at Gisors,
                                                      John king of England.
Fourth Crusade; France and England at war.
                                                      Crusaders conquer Constantinople; Prince
Arthur murdered by John.
Mogul empire founded
          1906
1909
1915
                                                      American order established. Amagna Charta signed by John. Magna Charta signed by John. Henry III. king; first Parliament in England. Fifth Crusader. Crusaders capture Damietta.
Sirth Crusades b. Sirth Crusaders.
                                                        Franciscan order established.
        1216
1217
1219
1227
                                                   Thomas Aquinas D.
Sixth Crusade.
Jerusalem coded to Christians.
Henry III. marries Elemor of Provence.
Seventh Crusade.
Jows driven out of France.
Battle of Lewes, Barons victorious.
        1226
1229
1236
1246
1248
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1467 Erasmus b.

A.D.

1200 Marriage of Ferdinand of Aragon and Isabella

Marriage of Ferdinand of Aragon and Isabella of Castle; Machiavelli b.

1470 Edward IV. escapes to Burgundy, and the battles of Barnet and Tewkesbury are fought, resulting in the vectory of the Yorkists, and the deaths of Henry VI. and Warwick.

1478 Edwal IV. invades France: Michael Angelo b.

1878 Caxton begins printing at Westminster.
1877 Trian b.
1878 Inquisition established in Spain.
1883 Edward IV. d. and was succeeded by his son
Edward V., who only reigned two months and
13 days, having been confined in the Tower and
murdered, Richard III. succeeding; Raphael b.
1885 Aug. 22, Battle of Boworth Field, Richard III.
1885 Lambert Simnel Rebellion.
1893 Ferdinand II. captures Granada and drives the
Moors from Spain; Columbus salls on his first expedition, Aug. 23; Henry VII. invades France; Perkin
Warbeck in Ireland.
1895 Columbus discovers Jamaica.

. Warpeck in Ireland.
1894 Columbus discovers Jamaica.
1898 Perkin Warbeck rebellion in England.
1897 The Cabots discover Newfoundland; Vasco di
1898 Sauna dombies the Cape of Good Hope.
1898 Savonarola put to death; third voyage of
Columbus, touches, the maniand of the American
continent; Vasco di Gama discovers sea route to India. Perin Warbeck executed.

1499 1500 Discovery of Brazil,

Discovery of Brazil,
Fourth voyage of Columbus,
Death of Columbus; foundation stone of St.
Peter's, Rome, laud.
Henry VIII king of England, April 22.
Spannards take Cuba; Luther goes to Rome.
Battle of Flodden; Scots defeated.

1509

1510

1810 Spiniarius 1810 Spiniarius 1811 Battle of Flodden; Scots defeated,
1814 Wolsey archivshop of York. [and dancellor. 1815 French invade Italy; Wolsey made cardinal
1819 Cortex conquers Mexico.
1821 Luther excommunicated; Henry VIII. opposes
1821 Luther accommunicated in the Philippines.

pinos.
1536 Tyndale's New Testament published.
1537 The Imperialists capture Rome and make a privacer of the Pope.
1538 Fall of Wolsey.
1539 Confession of Augsburg; Death of Wolsey.
1530 Confession of Augsburg; Death of Wolsey.
1534 Act of Supremacy passed and the Papal power in England abolished:
1535 Maid of Kent executed; Barbarossa captures Tunis; Leyola founds Jesuits; Charles V. captures Tunis from Barbarossa.

1836 Death of Catherine of Arragon; Anne Bolcyn executed May 19; Henry marries Jane Seymour May 26; Wales united to England; dissolution of smaller monatteries

smaller monayteries
627 Death of Jane Seymour; Frua in emption
628 Partsh registers established in Fingland; Pope
Paul III. excommunicates Henry VIII.; "Great"
Bible published.
628 Revolt of Ghent; general dissolution of

monasteries in England.

1840 Henry VIII marries Anne of Cleves Jan. 6;
Henry marries Catherine Howard July 28.

1544 1545

15**49** 1551

Henry Viril marries Anné of Cieves Jan. 6;
Henry marries Catherine Howard July 28.

Mary Queen of Scots b. Dec. 14; Copermeus d.;
Henry VIII, marries Catherine Farr.

Mary Queen of Scots b. Dec. 14; Copermeus d.;
Henry VIII, marries Catherine Farr.

Mary Cieve VIII, invades France.

Mary Queen of Scots b. Dec. 14; Copermeus d.;

Mary Copermeus Catherine Farr.

Mary Copermeus Catherine Farr.

Mary Copermeus Catherine Farr.

Mary Copermeus Catherine Farr.

Mary Copermeus Catherine Farr.

Mary Tudor queen of England, July 6; Lady

Jane Grey proclaimed, July 20.

Myaft's insurrecton; Lady Jane Grey executed; Mary marries Philip of Spaus.

Diet of Augsburg.

Mary Copermeus Catherine Farr.

Mary Catherine Farr.

Mary Copermeus Catherine Farr.

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Mary Copermeus Cat 1552

1554

1555 1556

A D. 1557

557 Battle of St. Quentin, Aug. 10, French defeated by English and Spanish forces.
558 Calais taken by French; Mary Queen of Scots marries the Dauplin; Death of Charles V., Nov. 17; Elizabeth; queen of England. 1559

1559 John Knox returns to Scotland from France. Reformation established in Scotland.

1359 John Knox returns to Scotland from France.
1360 Reformation established in Scotland.
1361 Mary Queen of Scots returns to Scotland.
1363 English occupy Havre.
1563 Council of Trent renewed; Church of England's 39 articles settled; Duc de Guise assassinated.

1564 Shakespeare b.: Calvin d.
1565 Mary Queen of Scots marries Darnley.
1566 Pus V. Pope; murder of Rizzo; revolt of the

Netherlands.

1567 Murder of Damley (Feb. 10); Mary Queen of Scots marries Bothwell (May 15); Mary forced to resign in favour of her son James VI.; Mary

imprisoned, Murray made Regent.

1868 Revolt of Moors in Spain; Mary Queen of Scots
escapes to Lingland; dealth of Don Carlos.

1869 Battle of Jarnar, Huguenots defeated, and
Condé killed.

1570

1571

Regent Murray assarsinated.
Holy League against Turks.
Duke of Norfolk executed; massacre of St. 1572 Bartholomew, Aug. 24; death of John Knox. Siege of La Rochelle. 1573

Drake's first voyage round the world. Spain annexes Portugal. 1577 1580

1581 1584 1585 Regent Morton executed.

Virginia discovered and colonised. Drake sets out for West Indies. 1586 Drake sets out for West Indies.
1588 Babyngton's plot agamst Einzabeth; battle of Zutphen, Spannards defeated by English and Dutch; Sir Philip Sidney receives death wound; tral of Mary Queen of Scors.
1587 Mary beheaded, Feb. 3; Drake's expedition against Cadiz; Davis's Straits discovered.
1588 Spanish Armada leaves Lishon June 1; defeat of Spanish Armada; Guise assassinated.
1589 Death of Catherine de Medici; Henry IV. of Navarra king of Evance.

1589 Politi of Catherine de Medici; Henry IV. of Navarre king of France. 1590 Battle of Ivry, League defeated by Henry IV.; Henry IV. Jays siege to Pars. 1591 Maurice captines Zuiphen and Deventer. 1593 Henry IV. captines Dreux, 1594 Henry IV. crowned at Chartres; Tyrone

1594 Henry IV. rebellion.

1596 Spaniards take Calais; France and England jon forces against Spain; English and Dutch capture Calais.

1598 Edict of Nautes, granting toleration to Pro-testants in France.

Oliver Cromwell born.

1800 Gowrie Conspiracy to dethrone James VI. of Scotland; English East India Co. formed. 1803 Death of Queen Flizabeth, James VI. of Scotland succeeds as James I.; England and Scotland thus united.

1604 Hampton Court Conference between Church

1604 Hampton Court Conference between Church prelates and Purstans.
1605 Gunpowder plot; Don Quazote published.
1607 Dutch destroy Spanish fact at Gibraltar.
1609 Catholic League formed.
1610 Henry IV. assavinated by Ravaillac; Louis XIII. king of France.
1611 Gustavas Adolphus king of Sweden; Ulster plantation; baronets first created.
1618 Romanoff dynasty founded in Russia.
1615 Arabella Staart dies in the Tower; Louis XIII. marries Anne of Austra.

1616 Arabella Staart dies in the Lower; Louis XIII.
marries Anne of Austria.
1616 Death of Shakespeare.
1618 Raleigh executed; Thirty Years' War begins,
1620 Treaty of Ulm, by which the Elector Frederick
lost Bohemna; Spinola invades Palatinate; "Filgrim
Rathers" land in New England in Mayfower,

Fatners" iand in New England in Mayrower, Dec. rith.

1623 Spanish marriage treaty broken.

1624 Monopolies declared illegal in England;
Barbadoes colouised by English; Virginia becomes a
Crown Colouy.

1626 Charles I. king of England; Charles marries Henrietta of France; English attack on Cadiz; parliament dissolved by Charles I. 1626 Buckingham impeached; Charles I. dissolves

627 is second parliament.
628 Cronwell enters parliament for Huntingdon;
Fettition of Right: Backingham assassmated; Richelieu takes Rochelle. 1698

lien takes Rochelle.

1629 Charles I, dissolves his third parliament.

1630 Italy invaded by Richelieu, Germany invaded by Gustavus Adolphis; death of Spinola.

1631 France and Sweden in alliance against Germany; Magdeburg taken by Tilly; battle of Leipsic, Gustavus defeats Tilly.

1632 Death of Tilly; Gustavus seizes Munich and Nuremberg; battle of Lutzen, Gustavus is for the state of Lutzen, Gustavus is for the state of the state of Lutzen. slain but victorious; Christina becomes queen of

Sweden. 534 France annexes Lorraine; assassination of Wallenstein; Charles I, demands ship-money; East 1634 France

Anglian fens reclaimed. Rebellion in Scotland.

1640 Charles I. dissolves Short Parliament; Long

Parliament meets.

Trial and execution of Strafford: Star Chamber

1841 Trail and execution of Strafford; Star Chamber abolished; rebellion in Ireland; the Grand Remonstrance; coffee first used in England.

1842 Charles 1, orders the arrest of the Five Members; Charles sets up his standard at Nottingham; Cmq-Mars executed; death of Richelieu; Charles 1, occupies Oxford; New Zealand and Tasmania discovered; battle of Worcester, Sept. 23. Rupert rictorious; battle of Edgehill, Oct. 23.

1843 Louis XIV. king of France; Anne of Austria Regent; Mazarin first Minister; death of Hampden; Charles I. besieges Gloucester; Rupert captures Britsol; battle of Newbury, Fakkand killed.

1644 Laud tried and condemned; battle of Marston Moor, July 2, Rupert defeated; second battle of Newbury.

1645 Laud beheaded; battle of Naseby, Royalists

defeated; Rupert surrenders Bristo

1646 Charles I. surrenders to Scots; Oxford sur-rendered to Roundheads. 1647 Charles I. surrendered to Parliament, taken

1647 Charles I. surrendered to Parliament, taken prisoner at Holmby House, June 4.
1648 Battle of Freston, Cromwell victor; Fairfax occupies Colchester; end of Thirty Years' War; "Rump" Parliament elected, "Rump" Parliament elected, 1649 Execution of Charles I Jan. 20; Commonwealth declared, May 19; Cromwell captures Droghed and Warford.

heda and Wexford.

1850 Montrose's rebellion; execution of Montrose; Cromwell defeats Lesley at Dunbar. 1851 Charles II. invades England, hattle of Worcester. Charles defeated, files to France; Navigation Act passed. 1652 England at war with Dutch; Dunkirk captured

by Spanish; Blake's victory over Dutch.

1653 Blake defeats Van Tromp; Croniwell dismisses
"Rump" Parhament; Cromwell made Lord Pro-'Rump"

tector. 1654 England and Holland at peace; Scotland incorporated with England; Christina of Sweden

abdicates. 1655 Cromwell dissolves Parliament; Januaica cap-tured by British.

656 Warsaw surrendered to Poles, afterwards re-taken by Charles and the Great Elector; Blake takes Spanish treasure fleet off Cadiz. 657 Cromwell declines the English Town. 658 Turenne takes Dunkirk; death of Cromwell;

1657 1658

Richard Cromwell named Protector.

1859 Richard Cromwell resigns.
1860 General Monk occupies London; Charles II.
proclaimed May 8.
1861 Bodies of Cromwell, Ireton, and Bradshaw

exhumed and hung in chains at Tyburn.

863 Act of Uniformity passed; Charles II. marries
Catharine of Braganza; Nonconformist clergy
deprived of their livings.

Act passed; New Amsterdam (New York) captured by British

1665 Great plague in: London; London Gazette first

sseed; Five Mile Act passed.

666 France declares war against England; Dutch fleet defeated off North Foreland, July 25; Great Fire of London.

Fire of London.

1867 De Ruyter's fleet in the Thames; war with
Holland ended; "Cabal" ministry; Clarendon
impeached; "Paradise Lost" issued.

1868 Triple Alliance (England, Holland, and
Sweden) against France; Bombay ceded to East
India Co.

1670 Second Conventicle Act: Hudson's Bay Co. formed.

672 France and England form treaty; Declaration of Indulgence to Nonconformists; England and France join forces against the Dutch. 678 Withdrawal of Declaration of Indu

1872 Withdrawal of Declaration of Indulgence.
1874 England and Holland at peace; Sobieski king
1877 Prince of Orange defeated at Cassel by
Prench; Princess Mary of England marners William

of Orange. [Act passed.

1678 English and Dutch alliance; Habeas Corpus

1679 Monmouth obtains victory over Covenanters at Bothwell Bridge.

1680

at Bounwen Bruge.
Stafford executed.
William Penn ruceives grant of Pennsylvania.
Alguers bombarded by French; Peter the
Great and Ivan V. joint-Czars of Russia. 1681 1682

Great and Ivan V. Joint-Lears of Russia.

685 Rye House plot.

685 Death of Charles II., James II. succeeds, Feb. 6; Monmouth insurrection; Argyll executed, June 30; battle of Sedgemoor; Monmouth defeated and captured July 0; Monmouth executed July 13; Judge Jeffreys opens the "Bloody Assize," Aug.; revocation of the Edict of Nantes. 1685

revocation of the Educt of Nantes.

1686 Test Act suspended.

1687 Declaration of Indulgence.

1688 Fresh Declaration of Indulgence by James;

trial of seven bishops; William of Orange lands at

Torbay, Nov. 5; James II. addicates and fies to

France, Dec. 11; Smyrna destroyed by earthquake.

1689 William and Mary proclaimed k. and q. of

England, Feb. 73; James II. lands in Ireland;

March; James besieges Londonderry, April 20,

reheved, July 20; Toleration Act passed; battle of

Killiecranke; July 27; Hill of Rights passed.

1690 English and Dutch fleets defeated by French

off Beachy Head; battle of the Boyne, July 1;

William defeated James; William lays siege to

Limcrick.

Limerick.

1691 Nonjuring bishops deprived of their sees;

1691 Nonjuring bishops deprived of their sees;
Limerick capitulates Oct 3.
1692 Massacre of Glencoe, Feb. 13; battle of La Hogue, May 19; buttle of Steinkirk, Aug. 3.
1694 Rank of England incorporated.
1695 William III. captures Namur.
1696 Piot to kill Wilham III.; death of Sobieski.
1697 Charles XII. king of Sweden; Peace of Rywick; Peter the Great in England.
1701 Frederick III. king of Prussia; Marlborough goes to Holland as commander-in-chef: war of the

goes to Holland as commander-in-chief; war of the

1703 Freterick III. king of Prussia, Mariborough goes to Holland as commander-in-chef; war of the Spanish Succession begins.
1703 Hanoverkin Act of Settlement passed; death of William III., Mar. 3; Anne, queen of Great Britain; England declares war against France and Spain; 1703 Battle of Pultusk, Swedes defeat the Poles; Marlborough takes Bonn.
1704 Admiral Rooke captures Gibraltar; battle of Blenheim, Aug. 13.
1705 Battle of Cassano; British invest and capture Barcelons; Charles XII. invades Silesia.
1706 Battle of Ramillies, May 12; French defeated by Marlborough; Eighsh enter Madrid, June 24; battle of Turin, Prince Eugene defeats French; Engish enter Midni.
1707 Scotch Parliament passes Act of Union; Charles XII. invades Silesia.

1706 Pretender James in Scotland; battle of Ouden-

arde, Marlborough victorious.

709 Marlborough and Eugene take Tournay;
battle of Malplaquet, Marlborough victorious; Alles take Mons.

1710 Allies take Douay; battle of Saragossa, Aug. 20; French defeated by Austrians.

1713 Frederick William I. king of Prussia; peace

of Utrecht, Mar. 31.

Death of Queen Anne; George I, king of

England, Aug 1.

1715 Fresh war between Prussia and Sweden; Riot Act passed; Louis XV. king of France; Jacobite rebellion; Walpole premier; battle of Sheriffmuir, Nov. 13; battle of Preston, Nov. 12, 13, rebels defeated.

1716 Lords Derwentwater and Kenmure executed.
1717 Triple Alliance, England, France, Holland:

1718 Lords Derwentwater and Kennure executed.
1717 Triple Alliance, England, France, Holland;
Eugene defeats Turks at Belgrade, Aug 16.
1718 Spaniards unvade Sicily; Quadruple Alliance,
Gt. Britan, France, Holland, and the Emperor;
England declares war against Spain.
1718 France at war with Spain; English capture Vigo,

Oct. 21

1730 Spam Joins Quadruple Alliance
1727 Gibraltar besieged by Spamards; Peter II.
Czar of Russia; George I. dies, George II. succeeds

1738 Peace between Britam, France, and Spain.
1733 Fred. Aug. II. of Poland died; France and Spain support Stanislas as his successor; Russia and the Emperor declare for Fred. Aug. Elector of the Emperor declare for Fred. Saxony and elect him; war results between France Shapiy and circum, and the Imperor.
1734 Siege of Dantzig, French take Troves.
1735 Don Carlos king of Two Sicilies,
1738 Lorraine ceded to France.
1738 Nadur Shah defeats and captures Great Mogul;
1739 Nadur Shah defeats and captures dealers.

1739 Nadır Shah defeats and captures Great Megui; Turks besiege Belgrade; peace declared between Turkey and the Emperor; Engrand goes to war with 1740 Frederick the Great king of Frussia. Spain. 1751 Battle of Mollwitz, Frederick defeats Austrians; Mana Theresa crowned queen of Hungary, June 25; Sweden declares war against Russia; Frederick takes Breslau; Ivan VI. depused, Elizabeth Petrowna made empress; Behring's voyage. 1752 Elector of Bavaria elected emperor as Charles VII.; Austrians take Munch; France declares war against Maria Theresa, Holland, and Great Britain.

Britain

1743 Austrians take Munich; battle of Dettingen,

French defeated by George II.
Charles Edward makes attempt to enter Engbut is frustrated: Louis XV. declares war

land, but is frustrated; Louis XV. declaires war against Great Britain; French capture Munich, Oct. 10; Frederick captures Prague, Scpt. 16
1745 Battle of Fontenoy (Cumberland defeated); British capture Cape Breton; Charles Edward lands in Scotland, July 23; hattle of Preston Pans, rebets victorious, Sept. 21; Fretender takes Carlsle, Nov. 15, retreats to Scotland, Dec. 20
1746 Battle of Falkirk, Jan. 17 (rebels victorious); battle of Culloden, April 16 (rebels defeated and rebellion crushed by Cumberland); Marshal Saxe takes Antwerp; Lords Kilmarnock and Balmerino executed; French capture Madras.

1747 French fiset defeated by Anson off Cape Finsterre, May 14; French can have been accounted; French capture Madras-and Balmenno creed the May 14; French invade Brabant; execution of Lord Lovat! Nadir Shah murdered; Fretender excaps to France; Hawke defeats French feet off

examples to relative, see the self-list, Oct. 14.

1748 French capture Maestricht; peace concluded at Air-la-Chapellet; Aighans invade India.

1749 English regain Madras.

1751

1752

789 English regam Madras.
781 Clive captures Arcot, Aug. 31.
782 Great Britain adopts New Style Calendar.
783 British expedition against French in Canada
783 Great Biltain declares war against France:
French defeat Admiral Bying off Minorca, May 30;
Calcutta taken by Suraja Dowla, June 18; "Black
Hole "atroctry; Seven Years' War begins; Frederick
defeats Austrians at Löwositz, Oct. 2.

A D.

1787 Britisn recapture Calcutta, Jan. 2; Admiral Byng shot, Mar. 14; Clive victorious at Plassey, June 23; French take Munden, Aug. 3.

1758 Russians invade Prussia; French take Arcot, Oct. 4; Prussians defeated at Hochkirchen, Oct. 14.

1759 British capture Surat, Mar. 2; battle of Minden (Aug. 1) French defeated; Charles IIII. king of Spam; Boscawen defeats French floet at Lagos, Aug. 18; battle of Quebec; death of Wolfe after complete victory over Montcalin, who was also killed; Hawke's victory over French in Quiberon Ray. niberon Bay.

1760 British re-capture Arcot; Canada conquest completed; Russians enter Berlin; death of George II., George III. succeeds, Oct. 25.

Great Britain declares war against Spain, Jan. 2; 2762 Great Britain nectures war against Spain, Jan. 2; British take Martinique; Frusan makes peace with Russia, May 2; Czar Peter III. deposed and succeeded by Catherine II.; British capture Havana.
1783 Great Britain, France, Spain and Portugal sign a Treaty of Peace at Faris, Feb. ro, ending the Seven Years War; John Wilkes arrested.
1786 Second Patt Administration, Aug. 2

1767 Corsica surrendered to France by Genoa.

1765 Wikes elected M.F. for Middlesex.
1768 Wikes elected M.F. for Middlesex.
1776 The first letter of "Junius" appears, Jan.
1776 Lord North Frine Minister; Caplain Cook
discovers New South Wales.
1772 Treaty for partition of Poland between Russia,
Austra. and Prinsbi; Warren Hastings appointed
Governor of Bengal; Cook's secund voyage round

1773 Strong opposition to the Tea Tax in Boston.
1774 Boston Harbour closed until restitution made for tea destroyed; Warren Hastings made first Governor-General of India.

Governor-General of India.

1775 Battle of Levington April 19, Gage victorious.

Washington assumes command of American army;
battle of Bunker's Hill, June 19, and of Long Island,
August 29, Americans defeated in both engagements;
Washington lays stege to Boston.

1776 British troops reture from Boston, March 17;
Declaration of American Independence, July 4,
British troops in New York, Sept. 15; battle of

Trenton, Dec. 26,

1777 Battle of Brandy Wine, Sept 11: Washington deteated by General Howe, who a few days loter takes Philadelphia; Battle of Germantown, Oct. 4, Burgovie victorious; battle of Saratoga, Oct. 7, Burgovie forced to surrender.

Burgoyne forced to surrender.

1778 France recognives American Republic, Jan 16;
Death of Earl of Chatham, May 11; stege of Gibraltar; France declares war aganst Great Britan,
July 10; British capture Savannah, Dic 28.

1776 Capt. Cook killed at Owhyhee, Feb 14; Spain
declares war aganst England, June 16.

1780 Rothney's victory over the Spanish fleet off
Cape St. Vincent, Jan 16; Charleston captured by

the British, who took 6,000 prisoners; Gordon nots in

London,
1761 Spannards lay siege to Gibraltar from April to
November without success; Flonda conquered by
Spannards; Lord Cornwallis pocupies Yorktown,
Alg. 1; Washington captures Yorktown, Oct. 19.
1782 Rodney deleats French feet off Dominica,
April 12; loss of the Royal George, Ang. 29; British
troops retire from Charleston; American Independence acknowledged by Britan, Nov. 20
1783 Fox and North's Coalition Ministry; peace
established between Fingland and U.S. Sept. 3; at
Pars, and on the same date Great Britan, France,
and Span agree upon terms of peace: Capilion

Parts, and on the same date Great Britain, France, and Span agree upon terms of peace; Coalition Ministry defeated and Pitt appointed Prime Minister.

1788 Warren Hastings impeached; Lord Cornwallis Governor-General of India

1788 Death of Prince Charles Edward; Times first published, Jan. 1; trial of Warren Hastings opens Feb. 13

1789 Mutiny of the "Bounty," April 28; Washington elected first President of U.S.; French Revolution began; Bastille in Paris destroyed, July 14. July 14.

A.D.

1791 Death of John Wesley, March 2; death of
Mirabeau, April 2; Louis XVI. escapes from Paris,
June 20, but discovered and brought back the

Mirabeau, April 2: Louis XVI. escapes from Paris, June 20, but discovered and brought back the following day; New French Constitution adopted by National Assembly.

1792 Gustavus III. assassinated, March 16; slavery abolished in St. Domingo, April 4; attack on the Tulicries, Aug. 10; French 1991 family imprisoned in the Temple; National Convention, Sept. 21; Royalty abolished in France and Proclamation of the Republic.

1793 Louis XVI. executed, Jan. 21; insurrection in La Vendée; Reign of Terror begins; Charlotte Corday assassinates Marat, July 3; she is executed four days later; death of Lord Mansfield; Lord Hood captures Toulon, Aug. 28; Mare Antoinette executed, Oct. 15.

1794 Polsh insurrection under Kosclusko; Danton

2794 Polish insurrection under Kosciusko; Danton executed, April 6; Lord Howe's victory over French off Brest; defeat of Robespierre and end of Reign of

off Brest; defeat of Kodespierre and can of Acquired Terror, July 27.

1705 Warren Hastings acquitted, April 23; insurrection in Paris; Directory established, Aug. 22; British take possession of Cape of Good Hope; France annexe Belgium, Oct. 1.

1708 Battle of Lodi, Napoleon victorious; Napoleon entiers Milan, May 13, Bologna, June 18; Spain declares war against England; battle of Arcola, Napoleon victorious, Napoleon victorious, Vandenn victorious.

Napoleon victori

Napoleon victorions.

1737 Battle of Rivoli, Napoleon again victorious,
Jan. 14; Mantua surrenders to Napoleon, Feb. 17
Rebellion in Iroland; Spanish fleet defeated by
Jervis off Cape 5t. Vincent, Feb. 14; mintiny at the
Nore; Napoleon enters Venice, May 16; vaccination

Nore; Napoleon enters venue, May 10; vacculation introduced by Jenner.

788 Rome occupied by the French, Feb. 20, and a Republic proclaimed; the French conquer Switzerland; Napoleon captures Malia, June 21, and in July invades Fgypt; battle of the Pyramids, July 21, Napoleon witorious; battle of the in Nile, Aug. 1-2, French fleet defeated by 1798 Rome

- Neison.
  1789 French occupy Naples. Napoleon invades Syna, and storms Jaffa, March 7; lays siege to Acre (March 15 to May 21), but is repulsed: Seringapatan attacked by the British and Tippoo klifted, May 4; lattle of Atonikr, july 25, Napoleon defeats Turks; French occupy Zurkh, French Directory overthrown Nov. 9, and Napoleon nade First Consul, Dec. 24; death of Washington, Dec. 14; Pitt imposes Income
- death of Washington, Dec. 14; Pitt imposes income I.ax.

  1800 Hast India Co. obtains possession of Surat, May 13; Napoleon crosses the Great 5t. Bernard, May 17-20; battle of Marengo, June 14; Austrian defeated by Napoleon; Legislative Umon of Great Britam and Ireland effected, July 2; British capture Malta, Sept. 5; battle of Ilohenhinden, D.c. 3, Austria defeated.

  1801 First Parhament of U.K., Jan.; Pitt resigns Felb. 5, is succeeded by Addington; battle of Alexandria, British victorious, Abercromby killed; Czar Paul murdered Mar. 24, succeeded by Alexander I.; battle of Copenhagen. Nelson obitans complete
- Paul murdered Mar. 24, succeeded by Alexander I.; httle of Copenhagen. Nelson obitans complete victory over Danish fleet, April 2, French retre from Egypt; Treaty of peace between Great Brifam and France, Oct. 2.

  1802 Napoleon appointed First Consul for life, Aug. 3; France annexes Pichimont, Sept. 12.

  1803 Dutch recover Cape of Good Hope; Napoleon sells Louisana to U.S., April 39; Great Brif, declares war against France, May 18; insurrection in Ireland under Robt. Eminet.

war against France, may 16; illumeterin in Tream under Robt. Emmet.

1804 Code Napoleon published; Napoleon wders Duke of Enghien to be shot; Pitt again Prime Minister, May 12; Napoleon made Emperor, May 18; Napoleon and Josephine crowned by the Pope at Paris, Dec. 2; Spain declares war against Great Britain.

1805 Napoleon crowned king of Italy, May 26; hattle of Trafalgar; Nelson's great victory and death, Oct. 21; French occupy Vienna, Nov. 23; hattle of Austerlitz, Dec 2; Napoleon defeats Austrians and Russians.

A.D.

1808 British re-occupy Cape of Good Hope; death
of Pitt, Jan 23; Administration of Grenville and Fox;
Eugland declares war against Prussia; death of Fox,

Engrand declarus war against Prussia; death of Fox, Sept. 13; Napoleon occupies Berlin, Oct. 79, after lattle of Jena: Berlin decree, by which Napoleon declared Great Britain in a state of blockade.

1807 Battle of Eylau, Feb. 7-8; slave rade abolished in British Empire; French occupy Dantzig, May 26; battle of Friedland, July 14; Russians defeated by Napoleon: Copenhagen bombarded by British, forces Danish fleet to surronder; dissolution of Garnen Empire.

of German Empire.

isruish, torces Danish neet to surrender; dissolution of German Empire.

1808 Napoleon enters Kome, Feb. 2; Charles IV. of Spain abdicates, March 79; Murat occupies Madrid, March 22; Joseph Bonaparte, king of Spain, June 26; Murat kung of Napies, July 15; Wollington (Wellesley) enters Spain, Aug. 2; Saragossa besieged from June 15 to Aug. 4, when raised; battle of Vimiera, British defeat French; Napoleon enters Madrid, Dec. 4.

1800 Battle of Corunna and death of Sir John Moore, Jan. 76; Gustavus IV. of Sweden deposed in favour of Charles XIII.; Soult takes Oporto, Mar. 22; Wellmgton crosses the Douro and enters Oporto, May 12; Napoleon eccupies Vienna, May 13; Pope arrested, July 2, after excommunicating Napoleon; lattle of Wagrum, July 6, French defeat Austrians; battle of Wagrum, July 6, French defeat Austrians; battle of Wagrum, July 6, French defeat Austrians; battle of Talavern, July 2, British victorious; Walcheren expedition sails, July 28; France and Austria sign treaty of prace, Oct. 14; Josephine divorced, Dec. 15; Walcheren executated by the English.

1810 Ciudad Rodrigo storined by British, Jan. 95; Napoleon and Maria Louis Bunaparte; English take Mauritus, Dec. 3.

Total articles and cannot be some party; Engine take Mauritus, Dec. 3.

1811 Massacre of Mamelukes at Cairo, Mar. 1; 1-rench take Badajos, Mar. 10; battle of Fuentes d'Onore, May 4-5. Welington victorious; battle of Albuera, May 10, British defeat Soult; Luddite

d'Onore, May 4-5. Weltington victorious; hattle or Albierra, May 16, British defeat Soult; Luddite riots.

1812 Ciudad Rodrigo taken by Wellington, Jan. 19; storming of Badajos by British, April o; Liverpool Administration, June 8; war declared against Great Butian by United States, June 28; Napoleon declares war against Russia, June 22; battle of Salamanca, July 22, British victory, Wellington occupies Madrid, Aug. 12; battle of Borodino, Sept. 7, French defeat Russians; burraing of Moscow, Napoleon occupies the ruined city from hept 14 to Oct. 19.

1813 Execution of 14 Luddites at York, Jan. 10; battle of Lutzen, May 2, Napoleon checks Allies; battle of Vittoria, June 21, Wellington victorious; battles of the Pyrenese, July 28 to Ang. 2, Wellington defeats Soult; Wellington storms St. Sebastian, Aug. 21; France invaded by Wellington, Oct. 7; battle of Leipsac, Oct. 10-18, defeat of Napoleon.

1814 Norway ceded to Sweden, Jan. 14; battle of Orthes, Feli. 27; Wellington defeats Soult; Alpoleon abdactes, April 10; Louss XVIII. king of France, Napoleon banished to Elba; peace of Paus, May 20; Heigum annexed to Holand; Washington occupied by General Ross, Aug. 24; peace between England and the United States, Dec. 24.

Nashington Central College of States, December Ween England and the United States, December 1988.

1815 Battle of New Orleans, Jam. 8th; British defeated; excape of Napoleon from Elba, Feb. 26; Napoleon enters Paris. March 21: Murat surrenders Naples to Ferdinand IV., May 20; Napoleon proclaums a new constitution, June 21; hattle of Ligny, June 16, Blucher defeated; battle of Quatre Bras, June 16, Gleat of Ney; battle of Waterloo, June 18, Napoleon defeated and overthrown; reabdication of Napoleon, June 22, Hapoleon defeated and overthrown; reabdication of Napoleon, June 22, tallics enter Parls, July 7; Restoration of Lours XVIII., July 5; Napoleon is placed on board the Bellerophon, July 75; Napoleon arrives at St. Helena, Oct. 16; Ney shot. Dec. 7.

1816 Algiers bombarded by Lord Exmouth, Aug. 26.

1817 Riots at Manchester, rioters scattered by military, March 11; death of Kosciusko, Oct. 18; battle of Mehudpore, Dec. 21, Holkar defeated.

A I)

1818 Hernadotte made king of Sweden (Charles XIV.), Feb. 6; royal marnages: Duke of Clarence (afterwards William IV.) with Princess Adelaide of Saxe-Meiningen, and Duke of Kent with Princess

of Saxe-Meiningen, and Duke of Kent with Frincess Mary of Saxe-Coburg, July 23; death of Queen Charlotte, Nov. 17. 1819 Florida ceded to U.S. by Spain, Feb. 22; Kotzebue murdered, March 23; Princess (afterwards Queen) Victoria b., May 24; great Reform meeting at Manchester dispersed by military ("Peterloo"),

at Manchester dispersed by limitary ("Peterioo"), Aug. 17.

1830 Death of Duko of Kent, Jan. 23; death of George III., Jan. 29; George IV. succeeds; death of Gratton, May 14; Carbonari revolt in Naples, July 2.

1821 Austrans occupy Naples; Victor Eminainuel I. king of Sardinia abdicates in favour of his brother, Chas. Felix, Mar. 23; Brazillain independence proclaimed, Apl. 22; Napoleon dies at St. Helens, May 5; Provisional Government in Greece, Jan. 9; coroutton of George IV., July 19; death of Queen Caroline, Aug. 2.

Carolin of George IV., July 19; death of Queen Caroline, Aug. 7.

1823 Greek Declaration of Independence, Jan. 1; massacre of 40,000 persons at 5cto by Turks, April-May; Greeks take Athens, June 22; Doin Fedro proclaimed eniperor of Brazil, Oct. 12; Caledonian Canal opened, Nov. 1.

1823 French invade Spain, Apl. 7; French bombard Canal opened, Nov. 1.

1824 Bolivar becomes Dictator of Feru. Feb. 10; British take Rangoon, May 17; Louis XVIII. died; Cliuries X. king of France, 5cpt 16.

1825 Navarno taken by Ibraliun Pasha, May 18; Nicholas I. Czar of Russia.

1826 France and England sign treaty of navigation, Jan. 26; Dom Pedro of Brazil becomes king of Portugal, Mar. 10; Menai Suspension Bridge opened,

Portugal, Mar. 10; Menai Suspension Bridge opened, Jan. 30.

1827 Apl. 12; kingdom of Greece founded, July 6; death of Canning, Aug. 8, Loud Goderich Prenner, Aug. 11; death of Ugo Foscolo, Oct. 10; battle of Navarino, Turksh and Fgyptian fleets destroyed 1828 Goderich resigns, Jun. 8, Wellington Administration succeeds, Jun. 25; Russia declares war against Turkey, April 20, Dom Miguel king of Portugal; Ibrahim Pasha evacuates Greece, Oct. 4; Russians take Varia. Oct. 11; death of Lord

Portugal; Ibrahini Pasha evacuates, Greece, Oct. of Russians take Varina, Oct. ir; death of Lord Liverpool, Dec. 4; repeal of Test Act. 1829 Death of Leo XIII, Feb. to; Andrew Jackson President U.S.; duel between Wellington and Winchilsea, March 21; Plus VIII. Pope, March 31; surrender of Silistna, June 18; peace of Adrianople

surreduced. Silistra, June 18; peace of Adranople signed, Sort of Silistra, June 18; peace of Adranople signed, Sort of George IV., William IV. succeeds, Iune 26; French take Algiers, July 5; n volution in Paris, fight of Charles X (111) 39, abdicates, Aug. 2; Louis Philippe proclaimed king of the French, ang. 2; Louis Philippe proclaimed, leng of the French, ang. 2; Beigan underendence proclaimed, Oct. 2; Wellington resicus, Nov. 3; Grey Ministry succeeds; death of Pins VIII., Nov. 3; even Ministry succeeds; death of Pins VIII., Nov. 3; Pope, Feb. 2; Poles defeat Russans at Gruchow, Feb. 20; I ord John Kussell introduces the first Reform Bill, March 1; revolution in Brazil. John Pedro abdicates, April 7, Leopold I. king of the Beigans, June 4; coronation of Wilham IV.; Bristol mots, Oct. 29; first epidemic of Assatic Choloraga England, Nov. 2; printial Association founded 1832. Poland aniexed by Russia, Feb. 26; Reform Bill passed, June 7; Otho king of Greece, Aug. 3; French Bill passed, June 7; Otho king of Greece, Aug. 3; French Bill passed, June 7; Otho king of Greece, Aug. 3; French Bill passed, June 7; Otho king of Greece, Aug. 3; French Bill passed, June 23; Isabella II. queen of Span, Sept. 29.

Aug. 23; Isabella II. queen of Spain, Sept. 29, 1834 Lord Melbourne, Premier, July 14; Houses of Parliament burned, Oct. 10; Sir K. Peel Premier, Dec. 8.

1835 Lord Melbourne again Premier, April 18.
1836 Thers First Minister of Louis Philippe, Feb. 22;
Louis Napoleon attempts a rising at Strasburg,

1837 Death of William IV., Queen Victoria succeeds, 1838 Royal Exchange destroyed by fire, Jan. 20; National Gallery opened, April 9; cornulation of Queen Victoria, June 28: "Great Western" steamer crosses the Atlainte

A.D.

1839 British occupation of Candahar, April 26; Chartist nots at Birningham, July 15; Christian VIII. king of Denmark; gold discovered in Australia.

1840 Penny postage instituted, Jan. 10; Queen Victoria and Prince Albert married; Fred. Wm, IV. king of Prussia; Canton blockaded by British, June 28; Louis Napoleon's attempt to incite insurrection at Boologne, Aug. 6; William II king of Holland; Napoleon's remains transferred to Paris, Dec. 12.

1841 Second Peel Administration; Prince of Wales (Edward VIII.) b., Nov. 9; armoury at Tower of London burit.

London burnt. 1842 Massacre of British troops, in retreat from

Cabul, Jun. 13; Kluber Pass captured by General Pollock, Apl. 5-14; Great Chartist procession in London, and presentation of monster petition to Parlament, May 2.

1843 Battle of Mecanec, Feb, 17, British defeat Afghans; Thames Tunnel opened, Mar. 25; annexation of Natal; Sinde aniexed; Irish Kepeal Agitation of Natal; Sinde Aniexed Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde Sinde S

ation of Natal; Sinde anuexed; Irish Repeal Agitation, O'Connell arrested, Oct. 14; battle of Maharajpore, defeat of Mahratta- Dec. 29.

1845 Joseph Smith, founder of Mormonis-u, murdered June 27; Brigham Young succeeds him.

1845 Sir Joliu Franklin's Arctic expedition sails,
May 23; Maynooth College endowed, June 20;
battle of Moodkee, Gough defeats Silkhs; Dec. 18;
battle of Ferozeshah, Dec. 21, further defeat of
Sikhs; famine in freland

1846 Bartle of Aliwal, Jun. 28; Silkis defeated;
battle of Sobraon, Feb. 10, Sikhs; defeated by
Gough;
Louis Napoleon escapes from Ham, May 26; repeal
of the Corn Laws, June 20; Sir R. Peel reugis, June
29; Lord John Russell Premier.

1847 Death of O'Connell, May 15; Farl of Dalhousie

of the Corn Laws, June 20; Sir R. Peel resigns, June 20; Lord John Russell Premer.

1847 Death of O'Connell, May 15; Farl of Dalhousie made Governor-General of Indua; Abd-cl-Kader surrenders, Dec. 22; Ten Hours-Factory Bill passed.

1848 Gold discovered in Culforma, general revolutionary movement throughout the Continent; riots at Mikin, Messina, Munich, Paris, etc.; Louis Philippe abdicates and escapes to England, Feb 24; French Republic proclaimed; monster meeting of Ghartists on Kennington Common, Apl. 20; Louis Philippe abdicates and escapes to England, Feb 24; French onexed by Sartinia, June 4; Louis Napoleon elected to National Assembly; mauriection in Paris; Louis Napoleon president French Republic, Pice. 20.

1849 Storming of Moohan, Jan. 2; Republic proclaimed at Rome, Feb. 8; Charles Albert abdicates in favour of his son, Victor Emmanuel, March 24; French occupation of Civita Vecchia; Austrans occupy Leghorn, May 12; Kome besiged by French, June 2; Inngary Invaded by Russains, June 17; Louis Victor Stormer Company Company of Civita Vecchia; Austrans occupy Leghorn, May 12; Kome besiged by French, June 27; Lake Nyama discovered by Lavingstone; repeal of the old Navagation Laws.

1850 Britanna Tubular Bridge opened March; submarne telegraph between England and France Laid, Aug. 28.

lad, Aug. 28.

1851 Great exhibition in Hyde Park, May to Oct.;

Paris conf a viat, Dec. 2; Louis Napoleon elected

President of the French Republic for 10 years,

President of the French Republic for 10 years, Dec. 20.

1852 First Derby Administration, Feb. 27; British capture Rangoon, April 14, Brit, take Vegu, June 4; Faraguay independence recognised July 17; dantle of Duke of Wellington, Sept. 14, Louis Napoleon proclaimed Emperor, Dec 2; Lord Derby resigns, Dec. 17; Lord Aberde 11's Ministry, Dec. 27.

1853 Napoleon III. matries Vinginic de Montijo, Jan. 29; Brit and French fleets in the Dardanelles; Russia and Turkey at war, Oct. 23; Turkish fleet destroyed off Sanope by Russians

1854 Brit and French fleets enter the Black Sea, Jan. 4; war declared against Russia by France, March 27, Great Brit, March 28; allied fleets bombard Odessa, April 22; Crystal P-lace opened, June 10; allied armies land in the Crimea, Sept. 14; battle of the Ahna, Sept. 20; siege of Sebastopol begins, Oct. 17; battle of Bakkava, Oct. 25; battle of lukerman, Nov. 5.

1865 Sardinia Joins England and France against Russia, Jan. 26; first Palmenston Administration, Feb. 6; death of Czar Nieholas, March 2, Alex-

A.D. ander II. succeeds; great exhibition in Paris, May to Oct.; newspaper stamp abolished, June 15; Malakoff and Revian storned, Sept. 8; Russians defeated before Kars, Sept. 29; Kars capitulated, Nov. 28. 1836 Outh annexed, Feb. 7; peace freaty syned at Paris, March 20; Crinnea evacuated by alied armies, July 12; Persia declares war against India, Nov. 1; British bombard Canton, Nov. 3.

at Paris, March 20; Crinnea evacuated by alhed armies, July 12; Persia declares war against India, Nov. 1; British bombard Canton, Nov. 3.

1887. Indian Mutiny breaks out; Persians defeated at Khooshab, Feb. 8; treaty of peace with Persia, March 4; mutineers at Lucknow, May 10-17; Cawnpore inassacre, July 15; Havelock occupies Cawnpore, July 17; Delin stormed, Sept. 14; Relief of Lucknow, Sept. 25; Lucknow garrison rescued, Nov. 22; death of Havelock, Nov. 25; visit to England of emperor and empress of the French, Aug. 8; Canton captured by English and French, Dec. 28-29.

1856. Attempted assassination of Napoleon III, by Orsini and others, Jan. 14; Great Eastern launched, Jan. 31; Derby Ministry succeeds that of Palmerston, Feb.; siege of Lucknow, March 18 21, when captured; Queen Victoria and Prince Albert visit Napoleon III, at Cherbourg, Aug. 4-5; Atlantic cable's first message, Aug. 20; Crown assumes Government of India.

1869. Victor Emmanuel declares war against Austria, May 3; battle of Montebello, May 20, Austrians defeated; Caribaldi takes Como, May 27; battle of Magenta, Austrians defeated; Napoleon III, and Victor Emmanuel enter Milan, June 8; Lombardy annexed to Sardinia; Derly Ministry defeated, Falmerston succeeds, again; Indie 8; Dembardy annexed to Sardinia; Derly Ministry defeated, Falmerston succeeds, again; Isattle of Solferino, June 24, Austrians defeated; peace treaty signod at Vibir Tenac, where Nap III, and Empr Franc. Jos. meet, July 17. Chinese repulse British, June 25; Bord Treaty of commerce between Great Britain and France Sigmed, Jun. 27; Tuscny amessed to Sardinia, Mar. 22; Savoy and Nice ceded to France, Mar 25; Grabaldi enters Palenno, May 27; Grab Fastern's first trip across Atlantic, June 17-27; Prince of Wales [Edward VIII, 19-sts Canada and the United States; French and English forces occupy Tientsin, Aug. 23; Grabaldi occupies Nagles and proclams. Victor Finnanuel king of United Italy, Sept. 9; lattle of Volturno, Garabaldi defeats Neapolitans, Oct. 17; treaty of peace with

secedes from Union, Dec. 20, first Engish ironclad (The Warror) launched.

1851 William I. king of Prissia, Jan 2; further secression of American States—Mississippi, Jan 9; Florida, Georgia, Alabania, Louisania, and Texas followed between Jan. is and Feb. 1; Confederate States proclaimed with Jeff Davis Proc., Feb. 4; Abraham Lincoln Pres. U.S.; Victor Emmanuel recognised as king of Italy, March 17; Confederates capture Fort Suniter, April 17; Virgina Joms Confederate States, April 17; Arkansas, Tennessee, and N. Carolina secodie, May 0, 8, 20; Southern ports blockade, April 18; death of Count Cavour, June 6; Great Britain and France recognise Confederate States as heligerents, June 25; Jeff. Davis elected President Confederate States as heligerents, June 25; Jeff. Davis elected Prince Albert, Dec. 14.

President Contéderate States for six years; death of Prince Albert, Dec. 14.

1863 Fight between Merrimac and Monitor, March 9; second great exhibition S. Kensington, May x-Nov. 1; battle of Williamsburg, May 5, Confederates victorious; Alabama leaves the Mersey, July 20; Caribaldi captured at Aspromonte, Aug. 20; second battle of Bull Rim, Aug. 20; Federals defeated; battle of South bedountain, Sept. 14, Contederates defeated; cotton famine in Langable.

Lancashire.

Lancashire.

1863 Slavery abolished in U.S. by proclamation of President Lincoln, Jan 1; Ismail Pasha khedive of Egypt, Jan. 18; Maoir robellion, New Zedand; Prince of Wales (Edward VII.) marries Princes Alexandra of Denmark, March 10; Prince George of Denmark elected king of Greece, March 18; French in Maxico, General Forcey entors city of Maxico,

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July 4; battle of Gestysburg, July 1-2; Masimilian of Austria made emeror of Mexico, July 29; hasimilian of Chattanooga, Conicelerates defected, Nov 2.

1864 Sir 5. Lawrence V(ceroy of India, Jan. 12; German ultimatum to Dennuark on Schleswig-Holstein question, Jan. 16; Holstein entered by German army, Jan. 21; Prussians take Dupple, April 18; war suspended May 12, resumed June 26; pace signed Oct. 20; Ababarra sunk off Cherbourg by Kearsage, June 10; Federal army enters Atlanta, Sept. 2; General Sherman captures Savannah, Dec. 21; Geneva Convention originated.

2865 President Lincoln elected for second term; death of Cobden, April 2; surrender of General Lee to Grant, April 9; Lincoln assassmated, April 14; Jeff. Davis captured, May 70, war ends; death of Palmershon, Oct. 78; Earl Russell Premuer, Oct. 79; death of Leopold I., king of Belgians, Leopold II. succeeds, Dec. 70.

1866 Bank of England Charter Act suspended, May 71; Fenian radis in Canada, May 31, June 7; demobilisation of Prussian army demanded by Austria, April 9; Prussians enter Saxony and Hanover, June 15; Anstrna declares war, June 7; Prussia and Italy do the same, June 18-20; battle of Custozza (June 24), Austrnans defeated by Prussians; Austra surrenders Venetia to France, July 5; Prussians take Frankfort, July 70; battle of Custozza (June 24), Austrnans in navai fight; Prussia and Austria sign treaty of peace, Aug. 23; peace signed between Austria and Italy, Oct. 3; Venetia annexed to Italy, Nov. 4; French evacuate Rome, Dec. 3-11.

annexed to Italy, Nov. 4; French evacuate Rome, Dec. 3-17.

1867 Schleswig-Holsteir annexed to Prinsia, Jan 24; shipp pass through the Suez Canal; I rench retire from Mexico, March 19; Fripperor Maximilian of Mexico shot, June 19; Dominion of Canada established, March 29; N. German Constitution formed, June 15; Garibaldi advanices on Rome, Oct. 30; French enter Rome, Oct. 30; Garibaldi taken at Mentana, Nov. 3; British Abyssinian expedition.

1868 Resignation of Lord Derby, Disrael succeeds, Feb 20; Mugdala taken and k. Theodore committed suncide, April 12; Michel III. of Servia assassinated, Jinne 10; succeeded by Prince Milan, July 2; Isabella II. escapes from Spain, and her deposition declared.

11. escapes from Spain, and her deposition declared, Sept. 29; provisional Government formed; Pusraeli resigns, Dec 2; Gladytine's Ministry succeeds, Dec. 9; Lord Mayo Viceroy of India.

1869 General Grant. President U.S.; Hudson Bay

Territory added to British America, April 9; Serrano becomes Regent of Spain, June 18; Irish Church dis-established, Act passed, July 26; Suez Canal formally

established. Act passed, July 26; Suez Canal formally opened, Nov. 17.

1870 Death of Dickens, June 9; Isabella II, formally abdicates, June 9; Spanish Government propose to grant kingship to Leopoid of Hohenzollem, July 4; French Government express disapproval, July 6; France declares war against Prussia, July 19; French take Saarbruck, Aug. 2; Battle of Woerth, Aug. 6, French defeated; Battle of Gravelotte, Aug. 18, French defeat; Battle of Sedan, Sept. 2, and surrender of Napoleon III. and his army, Sent. 2; 22.000 French were taken prisoners in the iotte, Aug. 16, French detest; nattie of Schain, serpy, 2 and surrender of Napoleon III. and his army, Sept. 2; 25,000 French were taken prisoners in the battle and 83,000 surrendered; Napoleon III. taken a prisoner to the castle of Wilhelmibbe, Sept. 5; Republic proclaimed in Paris, Sept. 4; Empress, escapes to England; Germans beslege Paris, Sersaburg surrenders, Sept. 28; Rome and Papal States annexed to kingdom of Italy, Oct. 28; Communist insurrection in Paris, Oct. 3; Germany proclaimed an united empire, Dec. 10; death of Alexander Dumas, Dec. 5; Duke of Aosta elected king of Spain, Nov. 16; Marshal Prim assassinated, Dec. 28; Irish Land Act passed, Aug. 7.

1871 William I. of Prussia proclaimed emperor of Germany at Versallies, Jan. 18; Paris capitulates, Jan. 28; National Assembly at Bordeaux, Feb. 12; Thiers Hirst Minister; Peace preliminaries confirmed, Mar. 1; National Assembly at Vorsailles, Mar. 20; Commune proclaimed, Mar. 28; formal treaty of

peace concluded. May 2r; Communists destroy Twileries, Hotel de Ville, Vendôme Column, and set fixe to Louvre, Palist Royal, and other Parissan public buildings, May 24; Archbishop of Paris shot, May 24; Government troops enter Paris and crush Coumunists, May 28; Thiers made President of the Republic, Aug. 3r; Purchase system abolished in British army, July 30; Mont Cenlis Tunnel opened, Sopt. 17; Great Fire at Chicago, Oct. 8-10; Tuch-borne trial from May 12 to March 6, 1872. Claimant

non-sured.
1872 Earl Mayo assassinated, Feb. 8; Lord North-brook succeeds him as Viceroy of India, Feb. 22; death of Mazzini, Mar. 10; fresh commercial treaty between England and France, Nov. 5; Alabama Convention at Geneva on Sept. 14 award damages

Convention at Geneva on Sopt. 14 award damages over \$\xi_2\$00,000 to U.S.A.

1873 Death of Napoleon III., Jan. 9; General Grant President U.S. (and term); death of Dr. Livingstone, May 4; Marshal MacMahon succeeds Thiers as President of the French Republic, May 24; Ashantee War; Shah vists England, June 3-July 5; Alabama claims paid, Sept. 9; Marshal Bazame tried and sortened.

sentenced.

1876 British capture Coomassie, Feb. 4; Gladstone
Muistry resigns, Feb. 17; Disraeli succeeds, Feb 18,
Tichborne claimant sentenced to 14 years' improson
nent for perjury, 4fer a tral lasting 188 days, Feb.
28; Czar Alexander II visits England, May 13-21;
Marshal Atzane oscapes from jirlson, Aug. 9;
Alfonso (son of Isabella II.) declared king of Spain
1876 Prince of Wales (King Edward) left England
for Indian tour, Oct. 11; England purchased
Khediwe's shares in the Suez Canal, Nov. 26.

1876 Prince of Wales in Calcutta, Jan 1; Philadelbijan Exhibition, May-Oct. Bulgarnau massares.

878 Prince of Wales in Calcutta, Jan 1; Philadelphian Exhibition, May-Oct, Buigaram massace, Sultan Abdul Azz dejoved, May 29; Disraeh becomes Earl of Beacousheld, Aug. 16.
877 Col. Gordon made Governor of the Soudan, Feb. 22; Diaz formally praclaimed President of Moxico, Feb. 18; Transval annexed to British Empire, April 12; Russa tleclares war against Turkey, April 24; Roumana declared independent, May 21; Russians repulsed at Plevna, July 30; fall of Plevna. Dec. 10. Plevna, Dec. 10.

May 21; Russians replaced at revula, July 36; fall of Plevna, Dec, to.

1878 Death of King Victor Emmanuel, Jan. 9; Russians take Adrianople, Jan. 20; Cleopatra's Nucelle arrives in London, Jan 21; Paris Exhibition, May to Oct.; Berlin Congress; Cyprus ceded to England; Princess Alice Steamti smith in Thanies, 700 lives lost; failure of City of Glasgow Bank; Marquis of Lorne Governor-General of Canada, war with Afghanistan; death of Princes Allice, Dec 4.

1879 Gen. Roborts occupies Kandahar, Jan 8; war in Zuniand, Isindula and Rorke's Drift, Jan. 22; Alexander of Battemberg elected prince of Bulgaria, April 89; Prince Louis Napoleon killed in Zululand, June x: Khedive Ismall Pasha deposed, Tewfik succeets, June 20; death of Lord Lawrence, June 27; battle of Ulundh, July 4; Cetewayo captured, Aug. 28; Casagnaria and his escort mass-cered by Afghans, Sept. 3; Gen, Roberts occupies Cabul, Ort. 22; Gladstone's Midlothian campaugn, Nov.; Tay Brifge destroyed, Dec 28.

Gladsone's Middorman Campagn, Nov.; 1ay
 Bridge destroyed, Dec 28.
 Beso Beaconsfield Ministry succeeded by Gladstone Ministry, April 23; Garfield President U.S., Nov. 2; Parnell arrested for conspiracy, Nov. 3; Transvaal

Permell irrested for compiracy, Nov. 3; Transvaal dechired a Rejublic, Dec. 16.

1881 Parnell conspiracy trial ends, Jan. 25; jury disagree: British defeat at Lang's Nek, Jan. 28; battle of Majuba Hill, Feb. 29; assassination of Czar Alexander II., Mar. 3; Peace arranged with Boers, Mar. 22; death of Lord Beaconsfield, April 19; President Garfeld shot, July 2, d. Sept. 30; Transvaal Convention signed, reserving British suzeramy, Aug. 3.

1882 Arabi Pasha Egyptian War Minister, Feb. 2; Servia proclaimed a rhigdom, March 6; assassiation of Lord F. Cavendish and Mr. Burke in Pheenix Park, May 6; Alexandria bombarded, July 11; British milliary expedition to Egypt under command of Sir G. Wolseley; battle of Tele-4Ksbir, Sept. 13; Cairo occupied by British troops, Sept. 14.

Arabi Pasha made prisoner, and (Dec.) banished from Egypt.

1883 Phoenix Park nurderers arrested on evidence

1843 Phoenix Park murderers arrested on evidence of James Carrey, Feb.; Royal Coll. of Music opened, May 7; Fisheries Exhibition in Loudon, May-Oct.; trial and condemnation of Phoenix Park murdorers (April), five of whom were hanged; Lord Lausdowne, Gov.-Genl of Canada; Capt. Webl drowned at Niagara, July 24; Carey the informer murdered, July 25; Mahdis forces destroy Hicks Pasha's army, Nov. 3; tribuite of £38,000 presented to Parnell in Dublin. 1886 Gen. Gordon starts for Khartoun, Jan. 18; death of Cetewayo, Feb. 8; death of Duke of Albany, Mar. 8, Health Exhibition in Loudon, May-Oct.; Lord Wolseley heads an expedition to Khartoum to rescue Gordon.

Lord Wolseley heads an expedition to Khartoum to rescue Gordon.

1885 Battle of Abu Klea, Col. Burnaby killed, Jan. 17; Khartoum coptured, Gordon slain, Jan. 26; Inventions Exhibition in London, May-Oct.; Gladstone resigns, June 23, Lord Salisbury succeeds; King Theebaw of Burna surrenders to British, Nov. 1886 Upper Burna annexed, Jan. 2; Salisbury Government defeated; Gudstone again Premier, Jan. 28-1'eb. 2; Indian and Colonial Exhibition in London, May-Oct.; Home Rule Bill defeated in Commons, June 8; King Ludwig of Bayarra commits suicide, Jine 15; General Election, Conservative majority, Lord Salisbury again Premier.

1887 H. M. Stanley sets out on Finin Pasha refuef expedition, Jan.; Queen Victora's Jubilee celebration, June 21.

expedition, jun., s— ton, june 2. Lord Dufferin resigns Viceroyalty of India; Lord Lausdowne succeeds, Feb. 8; death of Emperor William I., March o; death of Emperor Predenck, June 15; William II. succeeds; Parnell

Lord Lausdowne succeeds, Feb. 8; death of Emperor William I., March q; death of Eniperor Frederick, June 15; William II. succeeds; Parnell Commission opened, Oct. 22.

1869 Tragic death of Prince Rudolf of Austria, Jan. 30, Milan of Servia abdicates, March 6; Paris Exhibition, May-Oct., Shah visits England, July; Princess Louise of Wales and Duke of Fife maired, July 27; great Loudon dock strike, Ang. 15-Sept. 16; Repubble proclamated in Brazil, Doin Pedro deposed, Parnell Commission concludes sittings, Nov. 22 (129th day); disappearance of Piggott after confessing forgery; death of Jeft. Divis, Dec. 6.

1860 Opening of Forth Burley, Barch 4; Bismarck resigns, March 17; Caprino succeeds; H. M. Stanley returns from Emm. Pasha expedition, April 26; Heligoland c-d-d to Germany, Ang. 9.

1891 German Emperor and Empiress visit England, July 4; death of Parnell, Oct. 6.

1892 Death of Duke of Chrence, Jan. 14; death of Cardinal Manning, Jan. 14; death of Spurgeon, Jan. 31; Hurricane in Mauritus, April 29; Farliament dissolved, June 24; general election, Saltsbury defasted; fresh Cladstone administration.

mem. dissolven, june 20; general recention, cansoury defeated; fresh Giadstone administration.

1823 Home Rule Bill introducei; Feb. 73; Home Rule Bill, second reading, April 21, Chicago World's Fakr, May-Ott.; Nausen's Artic expedition starts, june 22; Duke of York marries Princess Mary of Teck, July 6; Duke of Edmiburgh becomes Duke of Cobung, Aug. 22; Home Rule Bill passes thard reading in Commons, Sept. 1; Lords reject Home Rule Bill. Sept. 8

1826 Opening of Manchester Slup Canal, Jan. 1; Gladstone rosigns, March 3, Lord Rosebery succeeds; death of Kossuth, Match 20; President Carnot assassisated, June 24; opening of Tower Bridge, June 30; Japan declares war against China, Aug. 1; death of Cart Alexander III, Nicholas II, succeeds, Nov. 1; Dreyfus (wrongfully) convicted of treason, Dec. 22.

2895 Faure President French Republic, Jan 17;
Mr. Gully elected Speaker, April 10: opening of Kiel
canal, June 21; Rosebery resigns, June 22; Salishury
Ministry succeeds: Parliament dissolved, July 12;
Lord Wolseley succeeds Duke of Cambridge as
Commander-in-Chief, Nov. 2; Ashanti expedition,
Nov.; Jameson raiders defeated, Jan. 2; Cecil
Rhodes resigns Cape Colony Premiership, Jan. 6;
British forces occupy Kumassi, Jan. 18; Shali of
Persia assassunated, May 1; conviction of Jameson

A.D., raiders, July 28; Ll Hung Chang in England, Aug.; M'Kinley Fresident U.S., Nov. 3.

1897 Turkey declares war against Greece, April 17; charity bazaar fire fatality in Paris, May 4; death of Duc d'Aumale, May 7; Sir A. Milner appointed High Commissioner in South Africa, May; Queen Victoria's Damond Jubilee, June 22.

1898 Zola's Dreyfus letter published, Jan. 13; Zola convicted of libel, Feb. 23; Marne, U.S. warship, blown up in Havana harbour; Port Arthur ceded to Russia, March 23; U.S. goes to war with Spain, April 21; Dewey destroys Spanish fleet at Maiilla, May 1; Coerra's fierd telstroyed off Santago, Cuhan by U.S. sliys, July 2; peace between U.S. and Spain, Aug.; 10ath off Sismarck, July 20; Empress of Aller assaches and Spain, Aug.; 10ath off Sismarck, July 20; Empress of Cassation annuls Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and new trial ordered, June; Dreyfus vendict and colerated at Nicholson's Nek, Oct. 20; Bottle of Modder River, Nov. 28; Buller's forces defeated at Colenso, Dec. 15; Lord Roberts appointed Commander-in-Chief in S. Atrica and Lord Kitchener Chief of Staff, Dec. 16.

Chief of Staff, Dec. 16.

Colenso, Dec. 15; Lord Kolerts appointed Communder-in-Chief m S. Africa and Lord Kitchener Chief of Staff, Dec. 16.

1800 Boers attack Ladysmith, Jan. 6; battle of Spion Kop, Buller repulsed with severe losses, Jan. 24; Lord Roberts begins advance from Modder River, Feb. 11; relief of Kimberley, Feb. 15; surrender of Crouje, Feb. 27; Ladysmith relieved, Feb. 28; Roberts enters Bloemfontein, Mar. 13; Paris Esthibution opened, May-Oct.; Madeking relieved, May 17; Boxer outbreak in China, May; annexation of homewerer, May-Oct. Madeking relieved, May 17; Boxer outbreak in China, Hongran on the Colon of the China, May; annexation of homewerer, May 1; King Humbert oxidoxinated, July 20; Parlament dissolved, Sept. 25; semeral election, Unionist majority; Lord Roberts appointed Commander-in-Chief, Sept.; Kruger sails for Holland, Oct. 29; Proclamation of annexation of Transvaal, Oct. 25; Australian Commonwealth proclaimed, Mr. Barton first Premier, Dec. 29.

1901 Queen Victoria died, Jan. 22; proclamation of King Edward VIII. Jan. 24; Funeral of Queer Victoria, Feb. 2; marriage of Queen Wilhelmina of Holland and Duke Henry of Mackienburg-Schwerin, Feb. 7; President McKinley maugurated for a second term, March 4; Duke and Duchess of Cornwall commenced their Empire tour on the Ophir, March 16; Duke of Cornwall commenced their Empire tour on the Ophir, March 16; Duke of Cornwall opened first Parliament made a grant of £100,000 to Earl Roberts, Aug. 1; Empress Frederick of Germany died, Aug. 5; President McKinley succumbed from siot received from an assussin's pistol whilst inaugurating Buffalo Exhibition, Sept. 14; Duke of Cornwall made Frince of Wales, Nov. 9.

1803 Transwell of George Pretoria, war ended, May 3; Pence rejoicings through the kingdom, June 8; Farliamentary grant of £50,000 to Lord Kitchener, May 3; Pence rejoicings through the kingdom, June 8; Farliamentary grant of £50,000 to Lord Kitchener, May 3; Pence rejoicings through the kingdom, June 8; Farliamentary grant of £50,000 to Lord Kitchener,

38: surrenderof Boer leaders at Pretoria, war ended, May 3; Peace rejoicings through the kingdom, June 8; Parliamentary grant of \$\int_{\infty}\) oco to Lord Kitchener, June 10; coronation festivities postsmued through serious illness of King I'dward, July 3; Lord Salisbury resigned, July 1; Mr. A. J. Ballour became Premier, July 12; fall of the campanile at Ventice, July 14; consaito of King Edward VII. Aug 9; great coronation of King Edward VII. Aug 9; great coronation Royal review of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the fleet at Spiteria Company of the July 14; coronation of king Edward VII., Aug 9; great coronation Royal review of the fleet at Spithead, Aug. 36; welcome home bauquat to Cap. Percy Scott and inval brigade, Sopt 23; attempted assassination of King of the Belgans, Nov. 16; Venezuelan fleet selzed by combined action of Britain and Germany, Dec. 10.

1603 Grand Indian Coronation Durbar at Delhi,

Grand Indian Coronation Durisir at Delhi, Jan. 1; wireloss telegraphic messages passed between King Edward and Fresident Roosevelt, Jan. 20; fire fatality Colney Hatch Asylum, 5; immates perish, Jan. 26; King Edward left England on a visit to Portugal, Mar. 31; King Edward at Gibraltar, April 8; disaster to British Somailland expedition,

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Bridge opened by King Edward, May 20; Royal Family of Servia assassinated, June 21; President Loubet arrived in London, July 6; Pope Leo XIII.

d., July 20; Cardinal Sario elected Pope, Aug. 4, Lord Salisbury d. Aug. 23; Ministerial crisis; Mr.

Chamberlam and other members of the Government resign over the Protectionist proposals, Sept. 7; Mr.

Chamberlam's Fiscal Folicy promulgated, Oct. 3; King and Queen of Italy at Windsor, Nov. 27; Chamberlam's Fiscal Folicy promulgated, Oct. 3; King and Queen of Italy at Windsor, Nov. 27; Chamberlam's Fiscal Folicy promulgated, Oct. 3; Chago heaster fire disaster, Coo lives low.

1904 Sensational suicide of Whitaker Wright after conviction for fraud, Jan. 26; Russo-Japanese Warner Council appointed, Earl Roberts ceasing to be Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke of Commander-In-Chief, Feb. 22: Duke

sinking the vessel, Oct. 22; Czar and Russian Government expressed regret at the Baltic fieet attack, Joint inquiry instituted under Hague Convention, resulting in the payment of an indemunity, Oct. 28; President Roosevelt obtained a large majority over his Democratic opponent in the U.S.A. presidential election, Nov. 8; King and Queen of Portugal arrived at Portsmouth on a visit to King Edward, Nov. 15; Russian gunbout Sevasiopol torpedoed by Togo outside Port Arthur Indrov. Dec. 12.

1908 Port Arthur forts transferred to the Japs, Jan. 3; "Red Sunday" massacre at St. Petersburg, Jan. 22; General Trepoff appointed governor of St. Petersburg, with plenary powers, Jan. 24; Grand Duke Sergius of Russia assassinated, Feb. 37; Lord Minner resigned High. Commissioner-ship of South, Japanese entered Mukden after a fierce fight in which 20,000 Russian dead were loft on the field, and 40,000 prosoners secured, the Jap loss being estimated at 20,000, March 10; terrific earthquake in northern India, nearly 20,000 lives lost, April 4; King Edward visited Fresident Loubet in Pars. April 6; plague rampant in India, 34,000 deaths announced in one week, May 9; Togo defeated rennant of Russian fleet, and captured Admiral Rozhdestvensky in battle of Sea of Japan, May 2; attempted assassination of King of Spain in Paris, June 1; King of Spain arrived in London, June 5; Mr. Gully (Viscount Selly) resigned the Speakership; marriage of German Crown Prince and Duchess Ceclina, June 6; King Oscar deposed from the Norwegian throne, June 7; Mr. Lowther appointed Speaker of the House of Commons; Admiralty baiquet to French naval officers at Portsmouth; Admiral Caillard welcomed at London Guldhall, Aug. 10; Great Eastern Rail way disaster to Cromer express at Witham, 10 killed, Sept. 27; death Anglo-Japanese treaty formulated, Sept. 27; death

A.D. of Sir Henry Irving, Oct. 13; King Edward opened Kingsway, Oct. 18; freedom of London City conferred on General Booth, Oct. 26; Czar sugned a Consuttution at Peterhof, called the "Russlan Magna Charta," Count Witte appointed Premier, Oct. 20; King of Greece at Windsor, Nov. 13; Prince Charles of Denmark elected (as King Haakon) to the Norwegian throne, Nov. 18; steamer Hidds wrecked off St. Malo, 138 lives lost; Mr. A. J. Ballour's Consorvative Government resigned, Dec. 4; disaster at Charing Crow railway terminus, fall of iron roof, several lives lost, Dec. 5; Sir H. Camphell-Bannerman became Fremer.

man became Premier.

several lives lost, Dec. 5; Sir H. Camphell-Banner, nan became Premier.

1908 Disturiances in Russia, over 1,000 persons shot dead in Moscow alone, Jan. 2; Parlianner dissolved, General Election commenced, Jan. 12; M. Fallières elected President of France, in succession to M. Loubet, Jan. 17; King of Denmark, Lather of Queen Alexandra, died Jan. 29; General Election concluded; result, a combined Liberal-Labour and Nationalist majority over the Conservatives and Unionists of 354. The new Parliament contained 54 working-cl iss members, Feb. 7; H. M.S. Dreadsong ht launched by the King at Portsmouth, Feb. 10; terrible colliery calvuity at Courrières, in the Pas de Calus, France; over 1,150 lives lot. Mar. 10; San France; over 1,150 lives lot. Mar. 10; San France; over 1,150 lives lot. Mar. 10; San France; over 1,150 lives on Princess Ena of Battenberg; bomb outrage at Madrid, narrow ecape of the bridal palr, May 3; Simplion tunnel opened for railway traffic, June 7; Zuliu rebel clinef, Bambaata, San in fight, June 8; motor-bins disaster near Handcross, ten deaths, July 12; terrible earthquake at Valparasso, over 2,000 killed, Aug. 37; new Anglo-Trails out (through Fishquard and Rosslare harbours) opened, 20; typhoon at Hong Kong, nearly 10,000 death, 5ept 18.

1907 Amir of Afghant-tan arrows at Peshawar on visit to India; earthquake at Kingston, Januaca, great loss of life and property, Jan. 14; Mr. Vin. Whiteley murdered by Horace G. Rayner, 24; pat explosion in Richandra and Harry Knouwien in Block Island Sound, causing sinking of the former and loss of nearly verse for the s. Merkm of the Hosto of Holland, with great loss of life, the King open-new Central Criminal Count, Old Balley, 9; first Transwall Parliament

wreck of the s.s. **Revin off the Hook of Holland, with great loss off life, the King quens new Central Criminal Court, Old Bailey, 27; first Transvaal Parliament opened, Mar, 11; French battleship; Petaz blown up at Toulon, 12; Colonial Conference opened; peace Congress opened at New York, Apr 15; Ascot Gold Cup stolen, June 18; Charing Cross and Hampstead Tube Railway opened, 22; discovery of theft of State regula at Dublin Castle, July 8; King and Queen in Dublin; new docks at Cardiff opened by the King and Queen; \$50,000 danages and costs, paul by the Associated Newspapers, Ltd., to Lever Brothers, Ltd., for bbel in **Daily** Mari, 17; Deceased Wife's Sister Bill passed the Lords, Aug, 26; accident to bridge over St. Lawrence, 70 killed; Anglo-Russian Agreement signed, 31.

Sister Bill pissed the Lords, Aug. 26; accident to bridge over St. Lawrence, 70 killed; Angle-Russian Agreement signed, 31.

1908 Paine at enematograph exhibition at Barnsley, to children killed, Jan. 11; cinematograph explosion at Boyostown, Pennsylvania, over 160 killed, 13; King and Crown Prince of Portingal assassinated while driving through 1 shour. E. von Feltheim sentenced to opvears penal servitude for threatening Mr. 501 B. Joel, Feb. 12; General Stoossel sentenced to death (subsequently commuted) for neglect of duty at Port Arthur, 20; fire at a public school, Lake View, Colimwood, Cleveland, U.S. A., 150 lives lost; the t b d. Tiger ran across the bows of H. M.S. Bermack off St. Carterine's Point by night, and was cut in two, the communder and 34 others losing their lives, April 3, Arbitration Treaty between Great Britain and the U.S. Signed, 4; great fire at Boston, U.S. A., danage about M. S. M. S. M. S. M. S. M. S. M. S. M. S. Signed, 50; Mr. John Murray, the publisher, obtained 47, 500 damages against The Times for the led May 12; King Edward received President of the French Republic, and in the evening a State banquet in his honour was given. May 25; President entertained

a.D.

at Guildhall, 27; Rotherhithe Tunnel opened, June 12; Wolfe and Montcalm celebration at Quebec, Prince of Wales (King George V.) and Lord Roberts present, July 25; explosion at Maypole Colliery, in: Wigan, 76 lives lost, Aug. 18; Austra's intention of anitexing Bosnia and Herzegovina announced, Oct. 3, Mr. Win. Taft elected President of United States, Nov. 3; Ellerman liner Sardinia destroyed by fire off Malta, over 100 pilgrins and many Europeans burned or drowned; terrible earthquake, destroying a great pait of Calabria and Sielly, 165, 650 lives lost, Dec. 28.

1909 Old age pensions came into operation, Jan. 1; outrage by Russian anarchists at Tottenham, who robbed a clerk of £80, and afterwards fired at pursuers, killing a policeman and n boy, and injuring 14 others; Colliery accident at West Stanley pit. Durham, 168 men and boys killed, Feb. 16; Judgment by consent for £1,000 glven agamst The People for Ibel upon Mr. Lloyd George, Mar. 17; deposition of Sultan Abdul Hamid, and succession of his brother Mehamed W., April 27; Mr. Lloyd George fits first Budget; Queen Wilhelmma of Holland gave high to a daughter, 90, Constitution of the South Sir Curzon, shylie and D. Hacken, Mr. 185 such Sir Curzon, shylie and D. Hacken, Mr. 194 surfer to be not sulfath and the sulfath of the strategory of the North McCall University, Montreal, 7; Prince Bullow resigned in Syongs son Ahmed Mirza elected his successor; Conference of South African Premiers, 18; Czar and Empress of Russia at Cowes, Ang. 2; great floods in Manchura, in which over 1,000 lives reposite from Mappin's premises in London with Jewellery worth £40,000, 23; despatch published claiming the lost, 5, capture of band of thieves as they emerged from Mappin's premises in London with Jewellery worth £40,000, 23; despatch published claiming the first Sovernor-General of South Kirnan Premiers, 18; Czar floods in Manchura, in which over 1,000 lives emerged from Mappin's premises in London with Jewellery worth £40,000, 23; despatch published claiming the for first Finance Bill by a large majority, Nov. 30. King Leopold II. of Belginin d., Dec. 17; Mr. Herbert Gladstone appointed first Governor-General of Souta

King Leopold II. of Belgium d., Dec. 77; Mr. Herbert Gladston. appointed first Governor-General of Sout. Africa, 27.

1910 General Flection, Liberals remain in power, Jan. 15; Sixty Labour Exchanges opened Feb. 1; French steamer General Chansy wrecked on voyage to Algiers, 160 lives lost, 11; the Daha Lama fled from Lhasa, 23; Mr. Herbert Gladstone raised to the peerage as Viscount Gladstone, March x; Lord Kitchener returned to London, efter 8 years in India, Apl. 28; King Edward attacked by bronchuts, bulletin issued, May 5. King Edward attacked hy bronchuts, bulletin issued, May 5. King Edward attacked lives from the source of 136 lives; funeral of King Edward, 20; discovery of human remains in a cellar at Hilldrop Crescent, Camden Town, and flight of Dr. Crippien and Miss Le Neve, July 12, who were captured at Quebec, 31; Fallure of the Veto Conference amnounced, Not. 11; Fallure of the Veto Conference amnounced, Not. 12; Fallure of the Veto Conference immounced, Al lives lost, 21; three policemen shot dead by alien burglars in Homidsditch. Gardstein, one of the assassins, killed by accidental shot from one of his comrades; Scotch express in collision near Hawes Junction, many lives lost, Dec. 24.

1911 Two of the Houndsditch hurrlerers tracked to a house in Salney Street on Jan. 1, and a great force of nobles, aided by soldiers, was called out. The

1911 Two of the Houndshitch nurderers tracked to a house in Sinkey Street on Jan., 1, and a great force of police, aided by soldiers, was called out. The besieged men fired magazine revolvers from the windows. The house was ultimately fired, and the charred remains of the nurderers were afterwards discovered; J. Ramsay Macdonald elected Chairman of the Labour Parliamentary Party, Feb. 6: Remibrandf; "Mill" sold to an American, P. A. Widener, March I; National Insurance Bill introduced, May 4; Fire at Empire Theatre, Edinburgh, 9 lives

A.D. lost; Sir E. Bradford, 74. d. 13; German Emperor present at the unveiling of the Victoria Memorial, 15; Coronation of King George V. and Queen Mary, June 22; strike of London transport workers; Parl. Bill finally passed in H. of Ld.; payment of Members resolution passed in H. of C., Aug. 70; London transport workers strike ended, 11; strike riots at Liverpool, 73; general railway strike begun; strike riots at Liverpool, 73; general railway strike begun; strike riots at Liverpool 73; peneral railway strike begun; strike conda "stoken from Louvre, 22; Liverpool strike ended, 25. T. W. Burgees swam the Channel, Sept. 6; sassassunkton of M. Stolypin at Kief, 74; collision between H.M. cruiser Hanke and the White Star Ihm Olympic in the Solent, 19; Italy declared

eedeel, 25. T. W. Burgees swam the Channel, Sept. 67, seassassuator of M. Stolppin at Kieff. 14; collision between H.M. cruiser Hawks and the White Star linor Olympiae in the Solent, 19; Italy declared war against Turkey; Duke of Connaught sailed for Cannada to take up duties as Governor-General, Oct. 6; Mr. Churchil made First Lord of the Admiralty and Mr. McKeina Houe Sacretary; Mr. Balfour resigned leadership of the Unionust party; King and Queen left for India, Nov. 12; Mr. Bonar Law elected Unionist Leader; "Lord" G. Sanger murdered by his attendant, the murderer committing suicide, Dec. 4; National Insurance Bill passed, 6; King-Emperor made State entry into Delhi, 7.

1812 Republic established in China, Feb. 12, great strike of coal buiners, about 1,000,000 men out. 39; Marconi Company contracted with Postmaster-General for wireless telegraph stations, 7; Coal strike ends, April 6; Tidania disaster off Cape Race, 1,635 lives lost, 14; King of Denmark died in Hamburg, May 14; strike of London dock labourers, 20; Lord Loreburn resigned Lord Chancellorship; succeeded by Lord Haklane, June 10; Colonel Seely, M.P., appointed Secretary for War, June 12; First Alexandra Day in London, office of Chancer Calised for charites, 26; dedication of Rhodes' memorial, Rhodesla, by Lord Grey, July 5; Camorra trual ended, lasted over a year, prisoners sentenced to long terms of imprisonment, 8; colliery explosion at Cadeby pir, near Sheffield, 86 lives lost, 9; Mr. Asquith in Dublim, hatchet thrown into his carriage, 20; Emigeror of Japan, sucide of Count Nogt, 13; rail-way accident at Ditton Junction, 15; fulled, 40 injured, 17; Subnarnne les sunk off Dover in Collision, 14 lives lost, 0ct. 3; War declared against Turkey by Montenengro, 8; Mr. Roosevelt shot at Milwake, 15; War declared against Bulgara by Turkey, 17; Greece declared wir. Sebor Canalejas, Spanish Premier, assassmated, 12; Fonce Conference opeided at St. James', Polace, Dec. 10; Lord Hinding wounded by bomb at Delhi, 23.

1918 Home Rule Bil passed H. of Co

Minister of French Govi., 20; Nazum Pasha, Turkish Commander-in-Chief, Assasanated, 24; Home Rule Bill rejected in II. of Lords by 326 to 69, 30; war in Balkaus resumed, Feb. 3; Welsh Church Bill passed H. of Commons, majority 107, 5; news received of Antarctic tragedy, involving deaths-sof Capt. Scott and four companions, Oates, Evans, Wilson and Bowers, in March, 1912, from exposure and privation, 10; Mexican conduct detail, Madero arrested, 18; Kew Gardens Tea House burned down by officerations. arrested, it: Kew Gardens Tea House burned down by suffragettes, 20: Ex-president Madero shot, 22: King George of Greece assassinated; fall of the Briand cabinet, Mar. 18: Fall of Scutari, after a six months' siege, April 22: Peace of Loreon signed, May 30: Miss Divison (suffragette) read. fathi injuries by rushing in front of King's horse during race for Derby, June 4; Cecil Chesterton fined froo and ordered to pay all costs for libelling Mr. Godfrey Isaacs, 7; M. Poincaré, French President, arrived in London on a visit to the King and Queem, 24; entertained at the Gulidhall, 25; breach of promise case, Daisy Markham v. the Marquis of Northampton, settled by payment of £50,000, and costs, July 2; Scott will case ended in verdict for Lady Sackville; A.D. A.D. pearl necklace valued at over £100,000 stolen during postal transit between Paris and London; Dr. Robert Bridges appointed poet laureate, 7.6; Col. Cody killed in aeroplane accident, Aug. 7; Palace of Peace inaugurated at the Hague, 27; strike riots in Dublin; four men arrested in connection with the diamond necklace robbery; railway disaster at Aisgill, 16 killed, Sept. 2: diamonds of stolen necklace, all but two vices and the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of the peace of t killed, Sept. 2: diamonds of stolen necklace, all but two, picked up in road at Higbblury, 16; strike in cotion trade at Bolton, Beehive Mills, ao; Volturno steamer burnt at sea, over 500 lives saved, more than 400 lost; mning disaster at Senghienydd, S. Wales, over 400 lives lost, Oct. 14; Pearl necklace case concluded at Old Balley, privoiers sentenced to varying terms of pend service and imprisonment, Nov. 24; Harry Fragson

prisoners sentenced to varying terms of peniservitude and imprisonment, Nov. 22; Harry Fragson
killed by his father, Dec. 2.

1918 Great strike in S. Africa, martial law proclaimed, Jan. 23; British submarine A7 lost off Plymouth with crew of 11 officers and men, 16; strike of
London coal poriers and carters, 22; lock-out by
London muster builders, 30,000 men affected, 26;
3 strike leaders deported from S. Africa, 27; revolution in Peru, Sehor Billinghurst, president, deposod,
Feb. 4; three new bishops apptid. PR. Rev.
L. H. Burrows to be Bp. of Sheffield, Rev.
L. H. Burrows to be Bp. of Sheffield, Rev.
L. H. Burrows to be Bp. of Sheffield, and
Ven. H. B. Hodgson, Bp. of St. Hdmundsbury and
Ipswich, 5; Mr. Munro Ferguson appointed Governor of Australia, 6; opening of Pari., 10; deported
strike leaders arrive from S. Africa, 22; M.
Calmette, editor of Le Picarro, killed by Mme.
Callaux, wife of ex-Premier, 10; difficulties with
officers at Curragh in connection with the troops
ordered for Ulster; Col. Seely, Minister of War,
resigned (not accepted) March, 23; Gen. French
and Sur J. S. Ewart resign (not accepted), 25;
Cambridge win boat race by 4§ lengths, 28; Col.
Seely again resigns (accepted), Mn. Asquith assume
post of Minister of War, 20; fisher disaster of Newfoundland, 22; lives lost, April 1; Vera Cruz capt. by
U.S. marines, 200 killed; Mr. Justice Channell
resigns; Mr. Montaque Sheurman, K.C., and
Mr.
John Sinkey, K.C. apptd. 11,1962 of King's Bench
Division; King and Queen's State visit to Paris, 21;
K. Rev. G. Nickson, D.D., apptd. Bishop of
Buckingham Palace, 21; thurd reading of Hone Rule
Bill passed Commons, majorny 77, 25; S.S. Empress
of reteland sunk in St. Lawrence after collision with Rt. Rev. G. NICKSON, D.D., apptet. MINOD MISTSON, May 1; Suffragettes attempt to force way into Buckingham Palace, 21; third reading of Hoine Rule Bull passed Commons, majority 77, 25; S.S. Empress of Ireland sunkin St. Lawrence after collision with Morstaid, 1014 lives lost; Kitchiener made Earl, June 22; Alexandra Day, over £20,000 collected in London, 24; Gen. Huertas resigned Pres. of Mexico, 18; Joseph Chamberlain d., July 2; Home Rule Confice. at Buckingham Palace, 27; Confice. ended without result, 24; Mine. Caillaux acquitted after long tral, 28; M. Jaurez murdered, 31; death of Mr. Plowden, magistrate, Aug. 8; Pope Pius d., 19; Lord Merthyr d 27; Sir John Hennlier Heaton d, Sept. 7; Cardinal della Chiesa elected Pope as Renedict XV., 10; Home Rule and Welsh Ch. Bills finally debated and ordered to pass to the Statute Book, their operation being suspended until Amending Bills considered at a future date depending on the War, 15; Parliament prorogued, 48; export of British wool probibited, Oct. 6; King Carlo of Rumania d., 10; the Czar probibits the sale of alcohol by Government in Russia for ever, 20; police order issued probibiting the serving of lugors to women in public-houses until after 11, 30 a.m., Nov. 3; d. of Tom Gallon, novelsk 4; d. of the Duke of Bucclouch, d. of Major-Gen, Kekewich, 5. 1916 Revy, collision at Illord, 9 killed, Jan. 1; Percy Illungworth d, 2; Lord Wimborne apptd. Ld. Lieut. of Ireland, 3; Laritiquake in Lake Puccino dist. of Italy, many thousands killed, Avezzano destroyed; Ld. Faversham d., 13; Mr. Benson d., 14; Carl Haag d., 19; Ld. Londonderry d., Feb. 8; Ld. Routschild d., Mar. 3; W. G. C. Gladstone, M.P., killed at the front, April 15; Rway, accident mear Grena Green, 25; Milled, and over 200 injured, mostly soldiers travelling in troop train, May 22.

# Chronicle of the Great War From Day to Day

1914. July—Sept.
July 23. Austria presents Note of demand to Servia.
24. Servia answers generally and asks for delay.
25. Servian answer rejected by Austria.

28. Austria declires war against Servia. 30. Belgrade bombarded.

- 30. Belgrade bombariled.
  31. State of war declared in Germany.
  31. State of war declared in Germany.
  31. Germany declares war against Russia and invades Luxemburg.
  3. Germans invade French territory.
  3. Sir E. Grey announces that England will stand by Frince defending the neutrality of Belgium.
  4. Gt. Brit. sends ultimatum to Germany demanding that Belgian neutrality shall be re-pected Germans attack Liege. Gt. Brit. declares war against Germany. Bone and Philipville in Algeria bomburded by Geber 5. 80,000 Germans attack Liege and are required.
- 5. 80,000 German attack Liege and are repulsed. German mune-layer Königer Luise sink by H.M.S. Amphion. Lord Kitchener appointed Sec. for War.
- Amphion. Lord Kitchenier appointed Sec. for War. Parliament votes £100,000,000. Goeben and Brestan chased to Messina.

  7. Germans repulsed at Liége after 3 days and nights fighting. Gen. Léman (defender of Liége) taken pasoner. H. M.S. Amphion sunk by mine. Goeben and Brestau escape from Messina.

  8. British forces seize the port of Lome in German Togoland, on W. coast of Africa.

  9. French occupy Mulhausen. German submarine U 15 sink by Brift. cruiser Rirmingham.

  10. Germans enter Liége. Austrians enter Alsace.

  12. (cf. Rrit. declares war on Austria. Goeben and Brestau sold to Turkey.

  15. Iapan sends ultimatum to Germany demanding

- 15. Japan sends ultimatum to Germany demanding evacuation of Klao-chau. Russia issues proclaimation
- promising autonomy to the ancient kingdom of Poland.

  16. First British Expedy. Force lands in France.

  17. D. of Gen. Grierson. Belgian seat of Govt. removed to Antwerp. Austrian cruiser Asperts sunk by French freet in the Adratic.

  18. Servings book Austrean.
- 18. Servians beat Austrians at Shabatz. Germans occupy Tirlemont.
- 19. Germans defeated by Russians near Eydtkulmen
  21. Germans defeated by Russians near Eydtkulmen
  23. Germans enter Brussels, and impose fine of
  £8,000,000. Gt. Brit. lends £10,000,000 to Belgium
  France does the same
- 22. Germans attack Namur.
  23. Japan declares war on Germany. British forces engaged at Mons with Germans and hold the place

- engager at mons win Germans and note the place two days and a night.

  24. Germans capture Namur.

  25. Austra doclares war upon Japan. Germans destroy Louvain. Allies fall back towards Cambrai.

  26. Togoland tiken by the Allies.

  27. Ostend occupied by Brit. marines. Kaster Wilhelm der Groste sunk by H.M.S. Highflyer off Rio de Oro. German cruser Magdeburg sunk by Russians in Gult of Finland.
- Russians in Gulf of Finland.

  28. Two German destroyers and two German crinsers sunk and a third cruser disabled in the Heligoland
- sunk and a third cruiser disabled in the ineligoland light by a Brit. battle squatron.

  26. German Samos surrendered to A Now Zealand force. Name of St. Petersburg aitered to Petrograd.

  20. La Fère taken by the Germans.

  21. Allies evacuate Complègne. Russians rout four Austrian Army Corps Inear Lemberg. Russians suffer reverse in East Prussia.
- Sept. 1. Germans take Amiens. British losses to date 15,000.
- 2. Great defeat of Austrians at Lemberg after seven days' fighting.

1914, Sept.

3. Dinant sacked. French Govt. leave Paris for Bordeaux.

4. Dykes flooded around Antwerp. Russians capture

Dykes flooded around Antwerp. Russians capture Lemberg. German right ceases to move against Paris, turning eart and south-east so as to strike in between Paris and the British forces.
 H.M.S. Pathfinder blown up by German submarine, 250 lives lost. 'Ferman atlatck diverted from Paris. Gt. Brit. France and Russia agree not to treat for peace separately. Germans take Rheims.
 Germans cross the Marne at La Ferrié-sous-Jouarre.
 Albies.

Allies begin to drive the Germans back from the North-east of Paris. Oceanic struck a rock and sank off Scotland.

about 25 miles Rulers of Indian native States (nearly 700) offer services in aid of Brit, arms.

10. German army still in rapid retreat; driven across the Marie with great loss. Servians capture Semlin. Gen Botha dispatches forces against Semlin. Gen Botha dispatches forces against German S.W. Africa. 11. German headquarters in New Guinea captured by

Australian expedition. Louvain retaken by Belgians
12. Vitry abandoned by Germans after being fortified Allies in pursuit. 6,000 prisoners and 100 gints capid by Allies in last four days. Hamburg-Amerika war-liner Spreewald captured in North Atlantic

retreat, 62 index gained in six days German cruiser Hela sunk by torpedo from Brit submining E. 9. Russians win great 17 days battle in East

cruiser off S. America.

15. Verdum Fuhered, its fortifications being now free from attack. Crown Prince's army retreating.

16. Great battle proceeding on a front of nearly not miles. Germans still falling back. Mr. John Redmond issues a call to the Irish people to form an Irish Brigade. Austrant losses since the taking of Lemberg are estimated at 250,000 killed and womaled, 200,000 prisoners.

- wounded, 100,000 privates.

  18. Park. prorogued. (King's speech says, "We are fighting for a worthy purpose and shall not lay down our arms until that purpose has been fidhlied."

  19. Germans bombard Soussons. Brit cruser Phyasist disabled in Zanzibar harhour by German warship (Konigobere, German cruser Emden active among British merchant vessels in Bay of Bengal.

  20. Germans bombard Rheims and destroy a great portion of the cathedral.

  21. French capture so German supply motor cars with all their staff and a number of prisoners. Bombardment of Rheims continues. German post at Shuckmannsburg near the Zambesi surrendered to Rhodesan torce.
- Shuckmannsburg near the Zambesi surrendered to Rhodesan torce.

  22. Three Brit. cruisers (Abonkir, Hogue, and Cressy) sunk off the Hook of Holland by German submarines, over 1,000 lives lost, Hogue and Cressy torpedoed while trying to save lives. German cruiser Emden shells Madras.

  28. British warships sunk or damaged, 10; German warships lost (including ships captured), 27; German merchant ships captured, 187; British merchant ships captured or sunk, 12, Allies still advance in the battle of the Alsne, having progressed about 12 miles in the region of Lassigny, and successfully

#### 1914, Sept.-Oct.

repulsed several German attacks. Russians occupy Soldau after defeating the German army. 24. French troops occupy Peronne, the key to the

24. French troops occupy Peronne, the key to the valley of the Somme.
25. 14th day of the Battle of the Aisne. Fiere attacks on the Allies by the augmented German troops. Australian Expeditionary Force capture German New Guinea, occupying the chief town and hoisting the British flag. Russians press their attack on Przeunysl with great energy; also capture Khyrow, about 20 miles 5 of Przeunysl. First contingent of Indian troops arrives at Marseilless. The contingent of Indian troops arrives at Marseilless.

286. Maines bombarded for the third time, cathedral destroyed. On the eastern frontier of German S.W. Africa the police fortf. Rietfontein, in the territory of the S. African Union, falls to German raiders. German patrol raud Walfisch Bay and capture a policeman. War contribution of nearly £400,000 by the Nizam of Hyderabad.

28. Germansopen leavy artillery fire on the Waelhem-Wayre St. Catherine sector of the Antwerp defences.

The German cruiser Finden continues its depreda-tions in the Indian Ocean, having destroyed four more British merchant slips. British force captures the capital of the German colony of the Cameroons, 28. Germans attack the Antwerp forts, blowing up

the Waelhem Fort.

30. Augmented German forces oppose the Russians on the East Prussian frontier, where a vigorous attempt to storm the Russian fortress of Osovetz is defeated.

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10 land captures nine German merchant steamers of the Woermann line and a gunboat, off the Cameroon

River, West Africa.

2. 55th day of the war. Siege of Antwerp proceeds.
Belgians retire across the Nethe, first blowing up the

Waelhem Bridge.

Walenen Bridge.

3. In the Royer region the most desperate efforts are made to break through the Alless line but without success. The siege of Antwerp is maintained. In the Eastern battleground the Germans are in a somewhat serious phight. In their retreat across the Niement, the Russians drove at them and whole

regiments were drowned.

4. A fierce engagement has developed in the region of Arras, the Allies assuming the offensive at many points, succeeding in the Argonne district in throwing back the enemy towards the north. A further Russian victory is recorded at Augustovo, where the Germans were defeated.

Germans were deteated.

5. Gand Duchess of Luxemburg deported to, and interned, in a castle near Nuremberg. Nearly oco.coo men enrolled in the Bittish Army since the ontbreak of the war Japanese forces before Tsingtau repulse a night attack made by the German granton. The Japanese make an attack on the Mars-hall Islands (German), compelling the force

in possession to surrender.

 Germans endeavour to break across the Scheldt in order to cut off the retreat of the Antwerp garrison. boder to cut on the retreat of the Antwerp garrison.

Bombardment is now threatened, in East Prussia, where the Germans are falling back from the Russian pursuit, the railways close to the frontier are congested with trains. Export of British wool prohibited. Metropolatin police order general ammution and concealment of public and private interests. lights.
7. German cavalry driven back to the north of Lille.

7. German cavalry driven back to the north of Lille, and ground previously given between Chaulnes and Roys is retaken. Bombardment of Antwerp now opened with great vigour, the big German siege guns being brought to bear with deadly effect upo the forts. Germans cross the Scheldt at Termonde, Schoonaborde and Wetteren. A British Marine Brigade and two Naval Brigades, representing a total of 8,000 men, enter Antwerp in ald of the Belgian garrison. The seat of the Belgian government is removed from Antwerp to Ostend.

9.14. Oct. so, coo refugees leave the city. First contingent of Cauadian troops arrive in home waters. Submarine E o performs another daring exploit, penetrating to the mouth of the Ems close to the German coast, and there sinking a German torpedo destroyer. The E 9 sank the Hels on Sept. 13.

The bombardment of Antwerp continues, terrible destruction being dealt by the German stege guns, the Southern Station, the Hoboken oil tanks, and many important public buildings being set on fire. The suburb of Borgerhout also in flames. Antwerp at last falls and German trops enter. Two of the British brigades successfully reture with the Belgian Army; 2,000 of them are cut off and succeed in escaping into Holland. British box 300. 57 German ships lying at Antwerp were blown up before the evacuation. evacuation

evacuation.

9. At Arras the deadly French gunnery is employed with splendid effect, beating the enemy back; and in the Roye region 1,600 prisoners have been taken within the last two days.

within the last two days.

10. In the great battle centre, between the Oise and Rheims, the Alhes make progress to the north of the Aisne, particularly to the north-west of Soissons. Germans impose a warlevy of £0,000,000 on Antwern, Death of King Carol of Rumana; his nephew, now King Ferdinand, succeeds him.

11. Two German aeroplanes fly over Paris and drop

Two German aeroplanes fly over Paris and drop 20 bombs in as many immutes, 4 persons killed and so injured. Fighting is briskly kept up on the East Prussian frontier, the German's seing driven lack to the Masunan Lakes. The Russian cruier Pallada (1,775 10ns) torpe doed and blown up by a German submarine in the Baltic, 568 lives lost.
 A German force enters Glient and blows up by a German flag. Another aerial raid upon Paris, 6 incendary bombs dropped, but no great damage inflicted. Col Maritz, who was in command of the British forces operating against German S W. Africa, has produced a German general's commission and sent an "ultimatum" to the Union Government threatening a republic.
 The town of Lille is the centre of a considerable.

13. The town of Lille is the centre of a considerable new development. While held by a territorial detachment it has been attacked and occupied by a German army corps. Germans are now inriching on Ostend. Belgian Ministry removes to Havre in France. Two of the submarines concerned in the attack on the Russian war cruiser Pallada [see

the attack on the Russian war cruiser Pallada (see Oct. 11) are attacked and sunk by Russian warships.

14. The Franco-British forces occupy Ypres. The Germans are pressed back by Brutsh troops on the left of the Allies' line. Meanwhile the Germans make a dash towards Calais, which now becomes their strong objective. Germans enter Burges. Goeben becomes the Turkish flagship. Zeppelin brought down by Cossacks near Warsaw. H. M.S. Varmouth. sinks two supply ships to the Emden—the Hamburg-Amerika line steamer Markomannia and the Greek steamer Pontoporos-off Sum itra.

steamer Pontoporos—off Sum tra.

15. German forces in great strength make the most vigorous attempt to advance on the way to Dunkirk and Calais, but are resolutely held back by the Allies. On the main line of battle the Allies are making notable progress, in the Rheims district the Allies carry German trenches. Germans enter Ostend. H.M.S. Haroke is attacked by German submarines in the North Sea and sunk.

16. The battle of the Alsne is now considered as practically ended without any decisive result except to shift the main action to the North. A gignitic battle is in progress between the Russians and the Austro-German forces at points near Przemysl and Warsaw; the Russians have taken the upper hand

Warsaw; the Russians have taken the upper hand and are said to have captured 20,000 men and 42

guns.
17. The new light cruiser Undrumted, continanded by Capitain Fox, formerly of the Anghion, and accompanied by four destroyers, engages and sinks four German destroyers. An Austrian army attempts to force a passage across the San in Galicia but is promptly repulsed. Anglo-japanese forces bombard the German fortress of Tsingtau, both by sea and

#### 1914, Oct.

1915, Oct.
air. A Japanese cruiser sunk by a mine in Kiao-chau
Bay, 260 lives lost.
18. The German forces have been considerably rein-5. In German forces have been considerably reinforced for the projected advance on Calais, with England an early object of attack after Calais is reached. The British armed hner Caronic brings in to Halifax, Nova Scotla, the German oil-tank steamer Brenhilla, captured while flying the American flag.

19. Germans repulsed between the Somme and the 19. Germans repulsed between the Somme and the Oise; developments favourable around Lille. British fleet co-operates with the Allied Army in the movements against the Germans at Ostend and along the coast. The attitude of Turkey becomes more menacing, it being evident that some closer understanding than has lutherto been avowed exists between Germany and the Porte.
20. A two-days' battle has been raging in Belgium, the Germany attaches understanding the Belgium, the Germans attaches unsuccessible and live of the

We A two-day's tattle has been raging in Belgium, the Germans attacking vigorously on all parts of the front, on the extreme north, where the enemy has been held back, and at La Bassée and other points, along to the heights of the Meuse, but being beaten back everywhere. British monitors still firing on the German batteries near the coast. The Emiden continues her exploits in the Indian Ocean, having sunk or captured five more British ocean, having sunk or captured five more British merchant ships. The Czar issues a decree pro-libiting the sale of alcohol throughout the empire for ever by the Russian Government.

for ever by the Russian Covernment.

21. The struggle on the Belgian coast is one of the most spectacular conficts ever waged, heing prosecuted on sea and land and in the air with intensive syigour on all sides. The British warships are proving of striking value in the operations, having done deadly execution in shelling the Cernan trenches. Counter attacks by the enemy prove quite ineffective. At the other side of the war, where Russia is bearing so overwhelmingly down upon Germans and Austrians, the enemy is mastered in almost every direction. The German troops—an immense force—advancing towards Warsaw, have been brilliantly thrown back and are now in full retreat, utterly routed, leaving their wounded belind retreat, utterly routed, leaving their wounded behind them in their haste to escape the pursuing eventy.

22. The Belgian coast battle, upon which the Germans 24. The Bengian coast name, upon which the Germania are staking so much is being maintained with desperate energy. The British guinners continue the bombardunent of the German flank with great success. Further to hamper the enemy, the dykes near the Yser are cut, the effect being to cause the whole the Yser are cut, the effect 'ang to cause the whole district to be flooded at high tide. In other northern directions all German attacks are proving futle, in the country around Warsaw the Germans have been driven back for a distance of eight miles, and so serious has the position become that the Kaiser, his staff, and horde of protectors retire from Czensto-

23. The Germans still show a determined attack on the greater part of the fighting line, extending from the Swiss frontier to the North Sea. The general emerges the one gratifying fact that the general situation continues to be favourable to the Albes. Three Krupp batteries destroyed north of the Asme. Another rowing German Cruser, the Karlsvike, which, together with six or seven other similar vessels, has lutherto kept clear of contact with British, French or Russian warships, appears on

Atlantic waters, destroys 13 British merchant ships, and successfully eludes capture.

24. 81st day of the War; 5th day of naval flotilla attack on German land forces. The Germans gam some ground near Dixmude in Belgium, and also some ground near Distinction in Degitini, and also secure a limited advantago near La Basséc. To set against this, the Belgians win their way a little distance beyond Nieuport in the threction of Ostend. distance beyond Nieuport in the direction of Ostend. French guns wipe out three more German batternes [18 guns] on the heights of the Meuse; and in the Argonne the Allier capture the key to the Aisne valley. Roulers talls into the possession of the Germans again. The British destroyer Badger (Commander Charles Freemantle, R.N.) sinks a German subnarine of the Dutch coast.

26. The Allies gain some little advantage in the direc-

1914, Oct.

tions of Roulers and Lille: and the Germans have crossed the Yser, the order having been given that this must be achieved at no matter what cost, and the enemy's loss here is about 5,000. At Ypres a courtary result is attained. There, although greatly reinforced, the Gornians were held in check for five days by a British force which ultimately saved the position and threw the enemy back

for five days by a British force which ultimetely saved the position and threw the enemy back 15 miles.

26. The Russians continue their ceaseless harassing of the fleening Germans in Poland. Germans evacuate Lodz. Miritz, the South African rebel commander, attacked at Kahamas by the South African forces and totally defeated, taking refuge on German territory. The French steamer Amural Ganteumer, having on board between 2,500 and 2,600 Belgian, and French refugees, was blown up by a torpiedo when some distance out from Calas. The fortunate presence of the Channel steamer, British Queen in the vicinity enabled all but from 30 to 40 passengers to be saved.

27. The French destrey several German batteries by their artillery into between Sousous and Berryan-Bac on the Asine. To the east of Nancy the French have driven the Germans out of French Ricas in Boarded above the British of the Channel and Captan and Captan and Captan and Captan and foundered off the coast of Ireland. Captam and foundered off the coast of Ireland. Captam and 13 wif the crew lost, 30 people saved. of the war.

of the war.

28. On both frontiers the war goes against the Germans Along the borders of Beigmun and in Northein France they are unable to break the front of the Alhes. The Russian aimes on the Vistula are pushing forward in all parts of their long front. A counter attack attempted by the retreating enemy north of Radom is overwhelmed and costs the Germans a loss of 49 others, about 5,000 men, and

19. I willer official reports from Petrograd accentuate the major rance of the Russian vetory in Poland The resistance of the Wussian vetory in Poland The resistance of the whole of the German armies on the Vistula is broken and the enemy continues in full retreat. Further south the Austrans are again defeated, and the Russius see ouply Cernowitz Turkey commits definite acts of hoshity against Russia by allowing the Brickan and Hamisteh to bombard Russian ports. Prince Louis of Battenberg resigns his position as First Sea Lord of the Admirally. Admiral of the Fleet Lord Fisher succeed him. 29. 1 other official reports from Petrograd accentuate ceed lum.

30. Lille is taken by the Allies; and the Bavarian whom the Kaser wished might "meet the British ust once," are badly beaten by them. The Turks, having taken the offensive against Russia, are doing much damage among the Russial ports of the Black Sea, their warships, chief among which are the Gorben and the Breslau, having bombarded Odessa Gorben and the Brissan, having bombarded Odessa and damaged some of the Russan destroyers. John Note of protest to Turkey is sent by the Entente Powers. On the Eastern frontiers the Russian armies are still engaged in pursuing the defeated German and Austrian armies. In South Africa, Beyers has had his commando dispersed. The German cruiser Emden is again active, making a German cruser Emden is again active, inaking a brills in trappearance in the roadstead of Penang, flying the Japanese flag, and repainted and otherwise disguised. She succeeded in torpedoing two war, sings—a Russian cruser and a French destroyer. The British Hospital Ship Robilla wrecked off Whitby; many lives lost, but a large proportion saved by heroic exertions and endurance Court martial opens at the Westminster Guildhall on a German spy named Carl Hans Lody.

31. 88th day of the war. Reinforced by a great body

1914, Oct.—Nov.
of fresh troops, the Germans attempt a general and
intensified resumption of their offensive in France
and Flanders. Marked changes in the battle front and riantiers. Marked changes in the battle from result; the enemy's forces, who were in partial occupation of Ramscapelle, are driven back beyond the Nieuport-Dixmade railway line, losing numerous prisoners and leaving many wounded on the field. The bombardment continues with violence, and the flooding between the Yser and the Nieuport-Dixmude railway renders the German trenches un-Dixmute ratway renders the German trenches un-tenable. The London Scottish troops make a splen-didly successful charge at Ypres. H.M.S. Hermes is torpedoed in the Straits of Dover and sunk by a German submarine; all the crew saved except some as men. General bombardment of Tsingtun begms. Indea troops co-operating with the Anglo-Japanese forces there.

Mov. 1. Superhuman efforts continue to be put forth by the German forces in France and Belguun to maintain their positions. Reserve after reserve is brought up and thrown into the battle line. In one week—Oct. 14-20—the Allies took 7,633 prisoners. The German losses in this Rattle of Flanders alone are said to amount to 125,000. In Poland, the German retreat becomes daily more pronounced, the Russian front now running through Flottkow, more than 90 miles from Warsaw and 60 miles from the German fronter. In Galicia the enemy failed to dislodge the Russians from the leaguer of Przemysl, which is now in ruins. The Russians make heavy captures and reoccupy important towns. From 2,000 to 3,000 Bedoums invade Egyptian territory. British, French and Russian ambassadors leave Constantinople.

2. The Germans are evacuating their trenches on

and Russian ambassadors leave Constantinople.

2. The Germans are evacuating their trenches on the left bank of the Yser and are concentrating an immense force with the object of retaking Ypres. The Admiralty announce the closing of the North Sea to shipping, except under conditions which give safe passage to unocent neutral vessels. German attempts to take the offensive on the borders of East Prussia arc-repulsed by the Russians. The German raiding crulser Karitraha sinks three more British merchantships. The German amoured crulisers Scharnhorst and Gneisenau arrive at Valparaiso (after their attack on the Monmouth and Capt of Good Hope, see Nov 4), and after taking in Cape of Good Hope, see Nov 4), and after taking in provisions leave during the night.

provisions leave during the night.

In forts at the entrance ho the Dardanelles are bombarded by the Anglo-French fleet; and the fort of Akaba, close to the Egyptian frontier, has been shelled by the British cruiser Minerva. Martial law is proclaimed in Egypti. Early this morning an enemy's equadron fired on the Hulcyon, a coastguard gamboat engaged in partolling. This being reported, various haval movements were made which caused the squadron to make a rapid retreat, and when beaten of, the rearmost cruiser, in making its secace, three out a number of wines, one of which its escape, threw out a number of mines, one of which

its escape, threw out a number of mines, one of which was struck by Submarine D 5, exploining her.

The enemy is concentrating in great force for a final assault on the line between Ypres and the Lys, but the position of the Allies has been strengthened. British artillery has dong, "prodigious slaughter," the Indian troops win great praise for their splendid bravery, and Sr John French praise for their spiencial prayery, and Sir John French sends a special message of congratulation to the London Scotush for their "glorious lead." Up to now the tremendous sacrifice of German lives has availed the Germans nothing. The Germans now hold only a single position on the left bank of the Yser. The German troops, driven L22k from Warsaw a distance of 90 miles, to within 30 miles of their own frontier, are still in retreat. They can the research of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correct of the correc miles of their own frontier, are still in retreat. They capture 15,800 Austrian prisoners and scores of gens. Bombardment of the Dardanelles by the Allied fleets is resumed. Russian troops enter Turkish territory and after some fighting capture Zivine, Kara Kilisse, Passinska and other places, and are threatening Erzerum. Admirally's report of Naval battle between German and British ships off the coast of Chill [Nov. 1] issued to-day, showing that the Good Hope, Monmouth, and

1914, Nov.

Glesgew cruisers engaged the Scharnhorst, Gneiseian, Lesprig, and Direction in stormy weather, the action lasting an hour. The Good Hope Caught fire, blew up, and sank; the Menmouth, also on fire, drew off, but was span attacked, her fate being not yet known. The Glasgow was not greatly damaged, and has few casualties. Bombarthent of Teingtau continues. The Austrian cruiser Kasserin Bissebesh, which was in the harbour when the steep began, has been blown up by the Austrians Sir Percy Scott is appointed Naval Assistant to the First Sea Lord. Cyprus annexed by the British Government. Nommally belonging to Turkey, Cyprus had been occupied and administered by Great Britain into 1978, by virtue of a Convention by which an annual tribute of £62,800 was paid to the Suitaa. It now becomes entirely British. The Yon & German cruiser of nearly 10,000 tons, is sunk of Wilhelmshaven by a German mme.

8. Great Britain declares war against Turkey. Turkish Ambassador leaves London.

Ambassador leaves London.

6. The Allies make a marked advance to the south of Dixmude and towards Gléduveit. Particulars of the great retreat from Warsaw are to hand to-day. It shown that the Russam arines, dominating a front stretching from the Baltle to the Carpathians, have overwhelmed the first resistance of the Austro-German forces at every point. Since the advance towards Warsaw, many things have surprised them. First, they were held up on the west bank of the Vistula by a sudden concentration of Russan Visula by a sudden concentration of Russian columns, From that time the enemy's forces were driven rapidly back. On the south of Pilitza, at, Radom, at Sandomir, end along the valley of the San they tried to stem the tide of retreat, but without avail. Then at Kielce, some fifty miles due west of Sandomir, the Russians went into occupation on Nov. 3; after that Jaroslav fell to them, and so the armies of the Grand Duke Constantine sweep along to the German frontier. The spy Lody is shot at the Tower.

7. Russians cross the German frontier north-west of Kalisch and are on the direct route towards the heart of Germany; the advance continues with equal steadliness in East Prussia and Austrana Galicia. Russians capture positions from the Turks only 32 miles from trzerniu. On the Black Sea the Bussians

steadiness in East Prussia and Austrian Galicia. Russians capture positions from the Turks only 33 miles from Erzerniu. On the Black Sea the Russians bombard two small ports, near the Eregit coalfields.

5. German troops are being withdrawn from Brussels, Louvain, and Antwerp. Their big guns, which were being brought up towards Arras and Lille, have been sent away in the night. A grand final elfort to "smash through" to Calais or Bonlogue, however, is being yrepared, the chief point of attack at present being Ypres, now largely defended by British troops. The Germans abandom Czonstochiowa and Kaiiscli, and the Russians successfully invade the province of Posen in Prusslan Foland. In Galicia the Austrians abandom all their powtons along the lower San.

5. 9th day of the war. The German still reads between Dixmude and the Lys renew aggreesive movements, all of which are repulsed by the Alies. On the Eastern Cameroons near the Congo, a force of French troops under General Aymerich has performed a brilliant feat in expelling the German cruiser Geter at Honolulio, having outstayed the allotted thine for an injured beiligeront, hav been intermed by the U.S. authorities. The German steamer Lootsvan is also intermed with her.

by the U.S. authorities. The (

Jocksun is also interned with her.

10. The Admiratty makes official announcement of
the capture and destruction of the German raiding
cruiser Emden, at Keeling (Cocos) Islands, in the
Indian Ocean, by H.M.S. Synney. The Emdens was
caught and forced to fait, with the result that she
was diven ashore and burnt. The German cruiser
Königzberg has also been forced out of harm's way.
She was discovered on Oct. 30 by H.M.S. Chatham
hiding in shoal water about six miles up the Ruffer
River, opposite Mafia Island, German East Africa.
Owing to her greater draught, the Chatham could

1916. Now.

not reach the Königsberg, steps were taken, therefore, to block her in by sinking colliers in the only navigable channel, pending operations for her capture or destruction. The right wing of the German army in East Prussia is defeated, the Russan advance continuing along the whole front. Russian ships sink three Turkish transports in the Black Sea, the vessels containing troops, aeroplanes and uniforms.

forms.

11. 90th day of the war. The fighting in Flanders is less favourable to the Allies, the Germans renewith their attack "with most peculiar intensity," and succeeding in occupying Dismude. The Allies, however, continue to look the outskirts of the runned village, and advance beyond Lombartzyde in the coast region. From the Rust the news is good. The coast region. From the mast the news to good. The Germans make active preparations to reast the Russians at Thorn, as the Austrans are doing at Cracow. About 22,000 German prisoners taken. H.M.S. Niger, a gunboat built in 1892, torpedoed and sunk by a German submanne in the Downs; officers and crew saved.

13. The enemy is making a stand near Thorn in East

officers and crew saved.

82. The enenty is making a stand near Thorn in East Prussia, bringing up 1,000 guns to defend their position against the advancing Russians. Supplementary Estimate issued for 1,000,000 more men and 622,000,000 more for the war, meduling advances to Belgium and Servia. British casualties up to Oct. 31, 52,000 (killed, wounded, and missing).

14. The guns bear the principal part in the fighting along the left flank of the Alhes to-day. The results of the enemy's efforts during the last few days are thus summed up in the Paris communique: "He has won Dixmude, a village smatten to rum by the breath of the guns, and has found it a barren conquest." Russian troops occupy Tarnow. The Santa Claus ship Jeson sails from New York with millions of Christmas presents from America's children for the children of belligerent nations. Lord Roberts died at the headquarters of the British Army in France.

15. The German forces are once more thrown back over the Yser. A German submarme is sunk of Westende by being rammed by a French torpedoboat. Turkish forts at the southern end of the Red Sea are captured by Indian troops, assisted by H.M.S. Duke of Heinburgh. It is now confirmed that the naval action in the Pacific (see Nov. 4th) was fought by four German warships, the Grestensum, Scharnforst, Leigher and Dieselen, against the Good Hope, the Monmouth and the Glasgow. Six German warships and an Austrian cruiser, it is now reported, were discovered sunk through explosion in the Tsingtau harbour on the Japanese and British taking possession.

Japanese and British taking possession.

6. The Germans continue in possession of the ruins that was once Dixmude, and make a further attempt that was once Dixnude, and make a further attempt to cross the canal, without the command of which the possession of Dixnude is worthless, but are defeated. German attacks are being repeated near Ypres and repulsed every time. The Prince of Wales is now at the front in Flanders, taking up a position on the staff of General French. Mr. Asquith moves a vote of Credit for £225,000,000, of which £400,000 is to be devoted to loans: £20,225,000 to Canada, Australia and New Zealund. £10,000,000 to Belgium; and £800,000 to Servia. The vote is to carry the country on to March 31. The Home Secretary stated that 41,500 allen enemies are now confined in concentration camps in this country, and that 29,000 are still at large. at large.

17. The Allied forces press forward in the neigh-77. The Allied forces press forward in the neighbourhood of Binschoote, and German attacks are repulsed south of this village, also south of Ypres. A brillant bayonet charge by Zouaves carries a wood after its being in disjute between French and German troops for three days of indecisive fighting. Two heavy attacks of the enemy on the British Third Division are successfully resisted, the Germans being driven back in disorder for goo yards. The Chancellor of the Exchequef produced his War Budget. The War Loan or £330,000,000 is to be raised at once. Issued at 95, it will bear interest at 35 per cent., and will be

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1914, Now.

redeemed not later than March z, 1928, being in effect z 4 per cent. security. The additional texation rendered nece-sary is to be met by doubling the mecome tax and super-tax, but for the current year only payable in respect of one-third and by microsang the tex-duty from g6, per ib, to 8d, per ib, and the beer-duty to the extent of id. per half-

part.

28. The advantage of the day in Northem France and Flanders, after many fluctuations, remains solidly with the Alles. The Carman have not pushed forward one mile on their mans have not pushed forward one mile on their mans have not pushed forward one mile on their mans to the Zectory of the Carman have been using for military purposes. The Russian official communication states that the Russian advance-guards opposing the Germans, who took the offensive, are falling back in the direction of the Benra. On the front of the Mazuran lakes the Russians reach the wire entanglements of the Germans and force them. A German squadron bombard Libau, a Baltic port, causing several outbreaks of free. The Russian Black Sea Flect cannonade the forts and barracks at Trebizond. Furnous battles are ranging in Poland, near Thorn,

several outbreaks of fire. The Russian Black Sea Flect cannonade the forts and barracks at Trebizond. Furious battles are raging in Poland, near Thorn, where General Hundenburg has evidently succeeded in checking the centre advance of the Russians.

19. Funeral of Lord Roberts in St. Paul's. The battle-cruiser Geoden severely handled and set on fire by the Russian Black Sea fieet off the Crinea; her superior speed enabled her to escape. In the Shatt-el-Arab region, a British force inflicts defeat on Turks with great loss. British force inflicts defeat on Turks with great loss. British force inflicts defeat on Turks with great loss. British Goven prohibit export of tea from this country except to the Allies and to Spain and Portugal. Export of ribber also stopped.

21. Ypres still in the hands of the Allies. In the Eastern Lattle ground Von Hindenburg continues his attempt to advance on Warsaw, reaching a point within 40 miles of the Polish capital. Three British aeroplanes make a raid on the Zeppelin factory at Friedrichshigten on Lake Constance, dropping bombs and doing considerable damage; one airman (Commander Brigss) captured the Allies. Reims and boussess region, adding destruction to destruction of the Constance on Warsaw successfully cheecked, his army of goods is broken up into several outs.

tion. Yon Hindenburg's advance on Warsaw is successfully checked, his army of aco, coo is broken up into several parts. Basrah captured by Anglo-Indian troops. In German East Africa, however, an attacking body of Anglo-Indians is overpowered by supernor numbers and loses 795 officers and men. German submarine, V 18, is rainined by a British warship of the coast of Scotland. Crow of 26 saved with the exception of one man. German destroyer, 5 124 rainined by the United Steamship Company's Anglo-Ana. Herm, one of the smallest of the Channel Islands, leased to a German Company in 1889, taken possession of by British troops.

islands, leased to a German Company in 1889, taken possession of by British troops.

The new German naval base under construction at Zeebrugger shelled and destroyed by British and French warships. Further success for the Russian arms in Poland, Von Hindenburg said to be in

retreat.

retreat.

38. At 7.53 this morning the Bulmer& battleship, lying in Sheemess harbour, blew up and entirely disappeared, nearly 800 lives being less Conly 12 start Str. The activity of German submarines in the Channel does not cease; two British merchant ships have been sunk off the French coast. Mr. Lloyd George announces in the House of Common that the War Loan of £350,000,000 has been oversubscribed. Mr. Churchill declares that by the end of next year our Navy will be increased by 15 new Dreadmoughts as against three added to the German feet.

38. The struggle in Pland grows fierce and desperate. Before 1.0dz, General von Mackensen's anny is vigoriusly resisting the encircling movement of the Russian force, while an attempt is being made by the German Army at Lowlez to break through to its rescue to the north. On the whole, however, it

1914, Nov.—Dec. seems doubtful whether General von Mackensen will 1914, Nov.—Dec.
seems doubtful whether General von Mackensen will
be able to extricate the remnant of his army safely.

92. Almost under the walls of Cracow, the Russian
army of Galicia wins a signal victory.

93. Almost under the walls of Cracow, the Russian
army of Galicia wins a signal victory.

94. Almost described the Russian
army of Galicia wins a signal victory.

95. Almost describing the
work of the British Expeditionary Force in the
Battle of Flanders, is issued. "No more arduous
task," he writes, "has ever been assigned to British
soldiers; and in all their splendid history there is no
instance of their having answered so magnificently to
the desperate calls which of necessity were made
upon them." The King leaves on a visit to France.

95. The King at headquarters in France. The
issue of the great battle in Poland is still in doubt,
but the Germans are a long way from safety. The
mass of the German Arny is chaposed upon a main
front of about 120 miles that runs in a broad curve
from Sieradz, passes just west of Lodz and Lowicz,
and thence goes almost due north to the line of the
Vistula at Plock. From about the centre of this line
a subsidiary front goes for about 13 miles almost due
acough through Brzewyne of Tiesey. Between Lodz

visitua at Plock. From about the centre of this line a subsidiary from goes for about zy miles almost due south through Brzezuly to Tuszyn. Between Lodz and Lowicz two German army corps were almost destroyed, but cut their way out with heavy loss by the aud of remforcements opportunely flung in. The Russians are striking at the Cerman left, have stormed Sobota (a few miles west of Lowicz), and have advanced to the attack of German entrenched positions at Leczyca, right in the rear of the main German line.

German line.

Dea. 1. King George visits base hospitals containing
British, Indian, and German wounded in France.

Two advances are made by the Alites: between
Bethune and Lens the château and park of Vermelles
are carried by assault; and in the Argonne an
appreciable advance is made in the woods of La
frurie. The battle in Poland continues with unabated
determination on both sides. In the Carpathians
the Russians win successos which give them the
command of important passes. De Wet is captured
by the S. African forces.

command of important passes. De Wet is captured by the S. African forces.

2. In Poland the Germans rally. A new army from the West is flung in at Kalish and is a factor of importance. In the region west of Lowicz the enemy attack the Russian front on the line from Brelawy to Sobota, which was stormed by the Russians on Nov. 30. The Russians retake Strykow and thus regain possession of the Lodz-War-aw railway. The new move of the Germans seems to have been effectively countered so far, and meanwhile the Russians push vigorously towards Cracow.

2. The Russians are only 34 miles from Cracow's outer

Russians push vigorously towards Cracow.

2. The Russians are only a miles from Cracow's outer ring of fortifications. The advance upon Cracow has been difficult and costly, conducted in its later stage in a temperature 3 degrees below freezing point. Strong reinforcements are being pushed forward by the Germans against the left wing of the Russian army operating before Lott, a large proportion of the new troops being drawn from the Western front.

4. On the Western lattifield events develop slowly, while the operations in the Vosges and Alsace claim attention with the siege warfaire in Flanders. Frouch attacks are made north-vest of Altkurch in Alsace. At a point nearly six miles north-east of Ypres the Germans made an infantry assualt but without success. The Allies capture 991 prisoners in the northern region alone.

northern region alone,

northern region alone.

5. A forced returement of several kilometres in North France is admitted by the German Staff. The enemy's positions at the village of Vermelles became untenable owing to the French artillery fig. and are evacuated, the German retiring to new positions to the east of Vermelles. The village was completely destroyed before the evacuation. General Botha announces that the rebellion in the Grange Free State is practically crushed. King George returns to London from France.

The Allies capture and strengthen a position across the Yser, destroy a German fortification and do considerable damage to the enemy's guns. At several points the heavy artillery of the Allies has quite outclassed the German weapons.

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1914. Dec.
7. The rath day of the war. The Germans claim to have captured Lodz and put the Russians in retreat.
The Allies continue to advance in France, generally The Allies continue to advance in France, generally taking the offensive, and appreciable progress is made in several directions. In the dark hours of this morning the Germans make an attack by armoured motor-boats on the Belgian lines south-oast of Ramacapelle near Peroyse. It was a battle by flood and searchlight and the Belgians mot it with characteristic bravery, ultimately driving the Germans back. Turkey's crulser Hamidieh, damaged by a nune, has put into Constantinople with difficulty.

J. The Russians have again evacuated Lodg. On the Westem front a volent attack is made by the Germans back.

i. The Russians have again evacuated Lodz. On the Western front a volent attack is made by the Germans on St. Eloi, south of Ypres, but fails. Meanwhile the British fleet open a bombardment of the German trenches between Nieuport and Ostend, the land forces of the Allies acting in conjunction with the naval operations. General Beyers meets his death in the Vaal River, across which he was accounted from pursuit having bears wounded with the havin operations. Concern beyon the his derith in the Vaal River, across which he was escaping from pursuit, having been wounded. Four German warships—the raiding cruisers Scharn. Norst, Greisenas, Nurriberg, and Lepheig—sunk of the Falkhand Islands by a British squadron commanded by Sr. F. Sturdee. The engagement lasted five hours and the Dresden escaped.

9. It is announced that Lodz was evacuated by the Russlans at indnight on the 5th Dec., in conformity with a well-considered plan, without the loss of a man, and that the German did not enter the town until the following afternoon. In Western Galicia the German forces suffer a grave defeat, a German corps from Belgium having been put to flight.

10. The third attempt of the Austrians to carry out an effective invasion of Seria is made, the enemy being disastrously defeated near Valuevo, and compelled to retreat with losses in men estimated at 30,000 and in guns at 50.

retreat with losses in men estimated at 30,000 and in guns at 50.

1. The Germans make another attempt to "smash through" the Allies' lines near Ypres but without success. British quisers shell the Belgian coast in the Nieuport region. The French capture the railway station of Aspach, south of Thann in Alsace. Three separate engagements take place on the Eastern frontier of Germany. Near Mlawa the Germans made desperate attacks all yesterday and during the night and were repulsed. A Russian counter attack then drove back the enemy's columns. The Servian army still pursues the Austrian invaders, and thousands of prisoners are being brought into Nish. The French Government returns to Paris.

and thousands of prisoners are being brought into Nish. The French Government returns to Paris.

12. A new battle of Ypres is developing even less favourably for the enemy than before. Three nore violent attacks have been repulsed. On the Eastern front the Russians successfully withstand several fierce attacks in the Lowicz-Warsaw direction.

13. British submarine Bit, in spite of difficult currents, dives under five rows of mines in the Dardanelles and torpedoes the Turkish warship Messiadiyeh, of ro, oro tons. The Servians continue their chase of the Austrans, who are said to have 30,000 Bavarians with them. Several thousand more prisoners are taken.

16. A change in the German plan of operations in Poland seems to be developing. The advance from East Privage to the north of Warsaw having bean

- 4. A change in the German plan of operations in Poland seems to be developing. The advance from East Priissa to the north of Warsaw having been thrown back the troops have been withdrawn over the border, and some of them sent south to assist the operations south of Cracow. Here troops are being massed, aided by hodies of Austrians who have crossed the Carpathians from Hungary. The Servians re-enter Belgrade after a desperate battle. In the Caucasus the Turks have suffered a severe reverse at the hands of the Russians, and have been driven across the Euphrates, which extends from the Peissan Gulf to a point within 50 miles of the Black Sea.
- Black Sea.

  15. All along the western front the Allies gain advantages. A combined attack on the line from Hollebeke to Wytescheete resulted in the capture of several German trenches and a number of prisoners By a debouching movement, from Nieupork, French and Belgian trrops occupy the line from the western border of Lombardzyde to the farm of St. Georges,

#### 1914, Dec.

while to the south of Ypres attacks made in the direction of Klein-Zillebeke represent an advance of 550 yards. In the regions of the Asua, the Argonne, the Meuse, and the Vosges similar progress is reported. There is but one exception—the tillage of Steinbach in the Vosges—which has been lost to the Germans together with several hundred French infantry. In North Poland the Germans admit a infantry. In North Poland the Germans admit a serious reverse. The column descending southward from East Prussia through Mlawa has not been merely checked, but, to quote the German Headquarters' Report, "it has had to occupy its former positions in consequence of superior hostile forces." In plain English, it has had to full back agam into East Prussia. The Austrians are pouring over the Carpathians and concentrating large bodies of troops on the left hank of the Vistula.

A German cruiser, force made a raid upon our

the left hank of the viscula.

8. A German cruiser force made a raid upon our North-East coast, shelling Scarhorough, Whitby, and Hartlepool, between 8 and 9 a.m. A British patroling squadron tried to cut them off, lut, favoured by mist and superior speed, they succeeded in making good their escape. Prominent buildings were struck, 210 persons killed, and over 400 were stru wounded.

wounded.
17. In view of the state of war arising out of the action of Turkey, Egypt 1: now placed under the protection of Britain. This is the announcement given out by the Foreign Secretary to-day. Egypt, which includes the Sudan, covers 1,300,000 square miles and has a population of 13,000,000. The Khedive is vir-

lus a population of 13,000,000. The Khedive is virtually deposed,

18, On both sides of the Western field—in France and in Flanders—sensible progress is made, the weight of the offensive being with the Allies, In Poland, the German advance along the left bank of the Vistula, which has already brought them to Sochaczew, is still being pressed forward, German troops are also concentrating upon Lowicz, Piotrkoff, and Wielun, where the Russian centre is entrenched before the main railway through Poland. Lodz appears to have been evacuated now by the Germans as of no particular value, and the force which descended into North Poland by way of Germans as of no particular value, and the force which descended into North Poland by way of Mlawa has been driven hack over the East Prussian frontier. Prince Hussens Kanuel Pasha, eldest hving prince of the family of Mehemet Ah, has been offered and has accepted the tutle of Sultan of Egypt in place of the ex-Khedive, now deposed.

9. The Alhes gain further ground before Nieuport and St. Georges, as well as east and south of Vires, north of La Bassée, and north-west of Arras, while the positious east of Vermelles have been manipulated. British troops loss some trenches near

north of La Bassée, and north-west of Arras, while the positions east of Vermelles have been mantained. British troops lose some trenches near Neuvechapelle. The Russians are now holding the line of the Bzura and Rawka rivers, 30 to 40 miles south-west of Warsaw, and after some obstinate fighting to-day cut up a German force which had closed the Bzura at Dachowa, mmeeditely south of Sociaczew. The strail of Capitan Fourne, a ringleader of the South African rebols, concluded to-day. Found gnilty and sub-sequently shot.

20. From the Lodz to the Vistula the situation is one of standstill. The defeat of the German force that descended into North Poland by way of Mlawa has freed the Russian right wing to some extent, enabling the Russians to draw up their forces in Central Poland towards the Vistula to guard against an enveloping movement. This movement may explain the evacuation of Lodz. Vast changes of a decisive character are taking place in a Foland. In the law and has been rebesed and then anteroneur may explain the evacuation of Lodz. Vast Changes of a decisive character are taking place in a Foland. But the laws Rusdom, and the enveny has also obtained possession of the great trunk railway from Wanaw to Czenstochowa. Cracow has been releved.

21. The steady maintenance of pressure by the Allies on the Western front continues, notably between the

21. The steady maintenance of pressure by the Allles 1. The steady maintenance of pressure by the Allies on the Western front continues, notably between the Argonne and the Meuse, where comparatively long distances have been gained. On the Eastern battlefield great activity prevails on both sides. The Russlans claim that the Germans in the Mlawa region have been driven back, that the Austrian offensive

1914, Dec. has been definitely checked, and that the operations have assumed a character "perfectly favourable to

the Russian arms."

28. The Allies make progress at many points in the west. In Champagne and the Argonne fierce befyonet fighting has resulted in the storming of three German entrenched positions, covering a front of a mile, near Perthes-lea-Hurlus, which is three miles east of Souain on the road to Ville-sur-Tombe. Further along this road, on the outskirts of the Argonne, the Allies have made good their capture of another mile of trenches at Beauséjour.

28. The Allies steadily push their way along the beach and sandhills to the north of Neuport, the guns of the Anglo-French bombarding squadron materially assisting this important movement. In

must of the American comparing squarem materially assisting this important movement. In Poland formidable preparations are in progress for an advance upon Warsaw, the Germans being now well within 30 miles of the city, and are said to be bringing up their great 42 centimeter mortars ready

for siege operations
24. The German attempt to reach Warsaw weakens

107 slege operation.

24. The German attempt to reach Warsaw weakens and further south the Austrians have been severely punished at several points, a large force being in full retreat in Western Galicia.

25. Seven British naval scaplaines make an attack at daylight on German warships lying in Schillig Roads off Cuvilaven, escorted by the Arethias, the U-daunted, a destroyer flottla and submarines. Our ships while standing by to pick up the seaplanes were themselves attacked by enemy Zeppelins, seaplanes and submarines, heating off the attack, and succeeding in picking up six of our seaplanes after they had discharged bombs on points of military significance. The seventh seaplane was afterward, seen in a wrecked condition off the coast of Heligoland, and the fate of its pilot, Flight Commander Francis E. T. Hewlett, was not known until some days later when it turned out that he had been picked up by a trawler and was in Holland.

26. Mlawa is retaken by the Germans. This indicates another attempt to thrust back the Russan left flank.

26. Mlawa is retaken by the Germans. This indicates another attempt to thrust back the Russian left flank.
27. The French hold the trenches captured near Puisaleine on the heights of the Mense, consolidating the occupation of the ground near Calonne. On the Eastent Front the enemy is fought to a standstill for the time being, and the Russians are confident of their ability to hold limit in check. Further south the Austrians are being driven back,

the Austrians are being driven back.

28. The Russians are measing forces on that section of
the Lower Vistula which includes the railway there,
and are in great strength in the region of Plock and
thence to the Warsaw front.

29. The 80th day of the battle for Calais. The Allies
take and establish themselves in the village of St.
Georges. In Upper Abace they are closely investing Steinbach after a violent action and have seized
a position north-west of the town. The main fighting on the Eastern frontiers is now centred on the
Upper Vistula and to the South. The Austrian
advance, meanwhile, through the Carpathians has
been driven back in the utmost disorder. Russians
claim to laive made e.o.co Austrians presoners during claim to have made 50,000 Austrians prisoners during the first half of December. The Government of the United States has addressed a Note to the British

Government protesting against the treatment of American commerce by the British fleet, by which, it is asserted, the rights of American citizens under the laws of nations have been infringed.

the laws of nations have been infringed.

30. A German squadron of aeroplanes attacked Dunkirk this morning. Four machines flew over the town and dropped bombs, while a fifth hovered in the distance as "sentry." 35 persons were killed and 32 wounded. The Allies win ground near Nisuport, strengthen their hold on Ypres by carrying a German point of vantage on the road from Becelaere to Paschendaele, and on the right of their inne pushed forward in the Argonne. The Russians make further progress in Galicia, soveral fortified works being captured and 44 officers and 1,500 men made prisoners. South-west of Dukla the enemy's forces are driven in a panic from strong positions.

31. In Upper Alsace the French enter Stembach and

"carry half the village house by house." In the region of Beausejour the Albes make ground, repulse a German counter attack, and agan push forward as the enemy's troops fall back unsuccessful. Between the Meuses and the Mossile the French take over 150 yards of the enemy's trenches. Following their repulse on the Bzura, the Gorman attacks on the Rawka are now weakening, the Russian heavy artillery having been brought up and used with great effect, the Government of the Union of S. Africa has decided to commandeer men for service in the forces operating against German South-West Africa. It is expected, however, that compulsion will not be necessary. Meanwhile, the Union troops re-capture Walfisch Bay. The rebet Maritz is again showing activity without opposition. necessary. Meanwhile, the Walfisch Bay. The rebel I activity without opposition.

Jan. 1. The battleship Formidable is sunk this morning in the Channel by torpedoes fired from a German subvarine. She had a complement of a morning and men. A British light a German subwarine. She had a complement of about 750 officers and men. A British light cruiser and a Brixham fishing smack save between them 150 lives. In Belgium the Allies hold St. Georges; in the Argonne the Germans win back some lost ground, but in turn are attacked by the French. The enemy nakes desperate but mavailing attempts to drive the French out of Stembach.

2. In Upper Alsace, the railway about Allierch is bombarded; and at Stembach more lines of houses are carried but the French infantry. There are voigent

arctarried by the French infantry. There are violent artillery engagements about Niceport, but against St. Georges the chemy abandons his counter-attacks.

In the Ulwa region of the Eastern battleground the

enemy's offensive is toiled, but south of the Vistula

his attacks are very stubborn.
The two chief centres of activity in the Western In the two chief centres of activity in the Western battleground are still Upper Alsace and Chanpagne. In both the progress of the Allies is heing steadily maintained. Berlin officially admits that Steinbach has been captured by the French. An important beight west of Cernay is stormed and held, and Cernay itself, a mile or two away, is seriously threatened by the French advance. The situation in Poland as developing. The Germans are held up on the Bzura and Rawka rivers, and for a fortnight have made no progress in the direction of Warsaw. The advance into Bukowina has reached within a mile of the Rumanian frontier. British warships successfully bombard the German port of Dar Es Salaam in East Africa.

Salaam in East Africa.

cessfully bombard the German port of Dar Es Salaam in East Africa.

5. A complete defent overtakes the Turkish army in the Caucasus. The battle is fought at an altitude of ro,000 feet on steep mountum ridges covered with snow, where almost no convoy or field artillery can be brought. Two Turkish army corps are routed, and the whole of the 6th Corps surrenders, accounting for 80,000 Turks put out of action. The pursuit of the remmant is vigorously followed up. Important gains are secured by the French in Aliace by pushing on towards Mulhouse, past the village of Cernay to the eastward of Vicux Thann, and silencing the artillery fire of the enemy to the east of Upper Bumhaupt. The French also succeeded in establishing themselres in the launter of Creux d'Argent in the Vorges. Near the village of Cardinal Merce, Archibishop of Malline's issuested a pastoral letter to be read in the churches of Belgium, in which, while counselling Belgians to adde by the terms of surrender made to the German's he reputated the existence of any right by which the Germans control Belgium.

Further reports concerning the defeat of the Turks. Germans control Belgium.

Germans control Belgram.

8. Further reports concerning the defeat of the Turks in the Caucasus show the affair to have been the most wholesale putting out of action that has occurred since the war began. The retreat of the remnant was cut off by roads deep in snow, and, finding the situation hopeless, the Turks surrendered in masses. The battle lasted for 48 hours with great desperation. To-day a slight German gain is reported in Alsace, the enemy succeeding in

1915, Jan.

recapturing one of the "heights," on the east flank of the hill 495," though the French still hold its summit. Otherwise, the important gains made in Steinbach are successfully maintained. Lord (kitchener makes a statement in the House of Lords. With regard to recruiting, he says it has "proceeded on normal lines." He also states that the deficiency in the supply of officers is new made good, over 20,000 having been appointed since the beginning of the war.

the war.

The French advance in Alsace continues with unabated success, and they have now reached a point only about a miles west of Alkkirch. They also mauntain at all points the positions recently captured from the Gennans. The report on the Gennan attrocties in France is issued to-day. It is one of the most appalling records of wanton outrage ever given to the world. The sale of absinthe is problibited in France.

Exching is activaly resumed in Relation between

prohibited in France. Fighting is actively resumed in Belgium, between Westende on the coast and Lomlårtzyde and in the neighbourhood of St. Georges, though progress is rendered difficult by the dreadful condition of the soil, which recent rains have turned into mud. In Alsace, the French makel substantial progress, ousting the Germans from their trenches on the side

ousting the Germans from their trenches on the sides of Hill 425 and gaining more ground on the slopes. Further south the French capture Burnhaupt-le-Hant, and some progress is reported towards Pont d'Aspach and Kahlberg.

9. In Poland, from the severity of the weather and other causes, von Hindenburg's armies are becoming weaker. The activities on the Western from increase. The Germans attack the positions recently secured by the French on the west of Perthes, but are driven back so effectively that goo yards, more of their trenches are captured on the flank of the point from which they attacked. At the same time the from which they attacked. At the same time the French by a direct attack secure Perthea village. Three lines of German trenches are taken at Soupir,

Three lines of German trenches are taken at Soupir, the captured section extending for about 60 yards.

10. The Germans, strongly reinforced, recapture Upper Burnhaupt but suistain heavy losses. Soissons is violently bombarded by the Germans, the catheral being badly damaged and the Law Courts set on fire. The Germans to-day make an attack on Spur 132, to the north-east of Soissons. This attack being repulsed, the French then capture the whole processing the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s ridge by expelling the enemy from two lines of trenches, which they had retained since Jan. 3. 11. The text of the internal Note in reply to the Note

- from the American Govt. on contrabind cargoes is published. Sir E. Grey declares that the Govt. cordially concur in the view that a belligerent's interference with neutral trade should be confined to interference with neutral trade should be confined to the absolute limits necessary to protect its safety; and expresses the opinion that the extent to which we have interfered with trade has been overestimated. It also gives figures showing the enormous increase in the exports of copper to Italy and other neutral countries contiguous to the enemy States. Further progress is made to the north of Perthes, the French once more attacking and capturing a line of trenches along a front of about royards. The Germans make an obstinate attempt to yards. regain the position lost to the north of Beausejour, but are repnised with heavy loss. German aero-planes drop bombs on St. Malo-les-Bains, near Dunkirk, and kill six persons. Sir Edward Grey's reply to the American Note on the subject of con-
- reply to the American Note on the subject of con-traband cargoes appears to have created a good impression in the United States.

  28. Count Berchtold, Austro-Hungarian Foreign Minister, resigns, being succeeded by Baron Bursan. The Turks occupy Tatriz, in Fersas, the capital of a province uniter Russian influence. The Cerman movement near Soissons assumes a more determined movement near Soissons assumes a more determined character and the French love some ground. Germans claim a victory on the hills near Crouy, Severe earthquake in the Lake Fuccino district of Italy, great destruction and loss of life.

  14. German success near Soissons, the Kaiser a spectator. In North Poland the Germans have been

1915, Jan.
driven back on two successive days. Turks in con-

driven back on two successive days. Turks in considerable force advance on Egypt.

18. The Russians take 5,000 prisoners and nearly 19,000 head of cattle from defeated Turks in the Caucasus. Flerce fighting continues in the Soissons district with fluctuaring results. In front of Warsaw a new Russian offensive is developing north of the Vistula, on the German line of communication.

16. Air raid by British, French, and Belgian aviators on Ostend, doing much damage to the military works there. After a desperate battle lasting nearly a week the remnant of the Turkish army that invaded the Caucasus suffers disastrous defeat at Kara-Urgan. Their 18th Army Corps (40,000 strong) is amblitated.

Their rith Army Corps (40,000 strong) is annihilated.

17. The Allies win successes in the Nleuport and Lombattzyde region, driving the enemy out of his trenches on the Great Dune and bombarding and

destroying a redan and works near St. Georges.

18. The recent German success at Soissons is barren or result to the enemy unless he can extend the gap to right and left, so he revenges himself by wanton acts of destruction. The Russians are now invading Turkish territory and the plight of the Turkis is desperate. Over you frozen corpses with rifles in their hands are found in one forest. In Poland the

Russians re-occupy Plotzk,

19. A raid of German aircraft is made this evening on the East Coast, bombs being dropped on Yarmouth,

- the East Coast, bombs being dropped on Yarmouth, Cromer, Lynn, Shenngham, and Sandringham. Three persons killed and considerable damage done. 21. Three successful infantry attacks are made by the Allies on the Western front, partly counterbalanced by a check to the French advance in Boisle-Prêtre. The Germans are driven out of certain of the Allies' trenches which they had occupied at Nötre Dame de Lorette; and near Beauséjour and in the Forest of Apreniont they capture part of the enemy's positions and hold their guns. Allied airmen make a raid on Essen.

  22. The Glasgow steamer Durward is sunk by a

enemy's positions and hold their guns. Allied airmen make a raid on Fesen.

22. The Ginsgow steamer Durmard is sunk by a torpedo fired by Submarme U ro. British air raid on Zeebrugge, damaging a submarine and causing many casualties. Simultaneously German aeroplanes drop bombs on Dunkirk, killing 9 people

23. M. Millerand, French Minister of War, is received by the King and confers with Ministers.

24. Farly this morning a British patrolling squadrousing the street of the Blucker, stoering westward. The German ships turn and make for home, but are pursued and brought to action. The Lion, flying the flag of Vice-Admiral Sir David Beatty, leads the British line. The lattle begins about 9 30. The Lion, Tiger, Princess Royal, New Zealand, and Indomitable are the British ships engaged; and opposed to thein are the Derflanger, Scyditts, Mollike, and Blucker. A well-contested running fight ensues, and shortly after one o'clock, the Blucker, which had previously fallen out of line, capsires and sinks. No British ships are lost; our cavalities are 14 killed and 29 wounded. Of the Rilicher's crew of 885, 123 are saved, inclinding the ediptam, who died of pneumonia on Feb. 16, 1935, in Edinburgh Castle.

26. The Kalser's 56th birthday. Desperate attempts are made on sea and land to achieve victories in honour of the day, but the successer set with the Allies.

Allies.

27. Thousands of lives have been sacrificed to achieve a substantial feat of arms as a birthday tribute to the Kaiser, but defeat and heavy losses have been sustained by the Germans in nearly all directions. Great Britan arranges to lend (2,000,000

directions. Great Britain arranges to lend £5,000,000 to Rumania.

28. In the three days, Jan. 25, 26, 27, the French communiqué states that the enemy's losses, judging from the number of dead found on the ground in the region of Ypres, La Bassée, Croome, the Argonne, and the Woouvre, evceed 20,000.

280. Germana are again checked by the British at La Bassée, 200 dead being counted in front of the British trenches. In the Caucaus and in Persia the Russians win successes against the Turks.

1915, Feb. 1915. The struggle for the mastery of the Carpathian passes continues to be most violent.
2 Parliament reassembles. This evening the Turks make an attempt to cross the Suez Canal at Tours.

They are allowed to bring

make an attempt to cross the Suez Canal at Toussoum, near Isinatia. They are allowed to brigh pridging material to the bank of the Canal before being interfered with. Then British troops deliver an attack and the Turks fly in disorder.

3. Is the Miawa region the Russian advance threatens the left fank of von Hindenburg's army. In the Carpathians strong headway is also being made by the Russians. The Austro-German armies in that quarter, however, are becoming overwhelmingly strong, numbering over 500,000 men. The fighting is along a front of 80 miles.

4. The German Martine Staff declares a blockade of the British Isles from Feb. 18. A Turkish force of 12,000 men, with heavy artiliery, attacks the British post at Toussoum. Simultaneously, another attempt is made to cross the Canal by ponteous and rafts. Our artillery and ships open fire, and after twelve hours fighting the Turks retire with heavy losses. The British iosses are two officers and 13 men killed, and 58 wounded. men killed, and 58 wounded.

5. "Warsaw at all costs," is again the Kalser's com-

mand, and von Mackensen, with 100,000 picked men mand, and von Mackensen, with 100,000 picked men and 600 guns, is making the attempt in a desperate onslaught. It is estimated that on a su-mile front the Gernans have lost about 9,000 killed. The Carpathian battle is still undecided. In the centre the Russians withdraw from two passes as part of a tactical plan, and make progress on their left and left centre. The Turks retire from the Suez Canal. Their casualties are about 9,000 including 400 killed, 600 prisoners, and 2,000 wounded.

8. A conference is held in Paris between the Chimcellor of the Exchenge and the Emprace Muniters of Exerca

of the Exchequer and the Finance Ministers of France and Russia, at which it is agreed that the three Powers shall unite their financial and military resources.

7. Operations on the Eastern front take a definite

7. Operations on the Eastern front take a definite turn in favour of the Russians, who cross the Bzura.
8. The total number of British casualties to Feb. 4 is 104,000. M. Delcassé, French Foreign Minister, who is visiting this country is received by the King to-day. A Supplementary Estimate provides for an addition of 32,000 men to the British Navy, bringing the total uniform of the British Navy, bringing the total up to 250,000.

10. The Russians are pushing through the Dukla Pass in Hungary. The enemy is completely routed in the Carpathians.

11. The German Admiralty issues an order that neutral

11. The German Admiralty issues an order that neutral ships shall not be interfered with if they are not suspected of carrying contraband, but that every British ship, whether a war or a merchant vessel, will be sent to the bottom of the sea.
12. In Eastern Prossis the concentration of very great German forces is established. These forces taking the offensive, are tapitly developing it, especially in the directions of Wylkowyski and Lyck. The presence of vast new formations which have arrived at the front from the centre of Germany is revealed; and the Russian troops are now falling. is revealed, and the Russian troops are now falling back towards the Russian frontier. In the Carpathians the Russians take the heights near Rabe, east of the Lupkow Pass, after a stubboni fight, and apture about 1,000 prisoners.

13. The German advance continues in East Prussia, the enemy pressing forward in great force along the line of the Niemen, the Russans, outnumbered by five to one, falling back on their fortified lines.

14. The new German move in East Prussia is pushed

14. The new German move in East Prussa is pushed forward into Russian territory.
15. The second Russian retreat from East Prussia to the Niemen develops rapidly. The German tactics, however, are arrested, Hindenburg's hopes of following up his vigorous advance being seriously Interfered with. In the Carpathians and in Western Galicia the Russians are doing well.
16. Air-raid by 40 aeroplanes (British) on the German poritions on the Belgian coast: 240 hombs dropped in Ostend, Mudelkerke, Chistelles and Zeebrugge. Eight French aeroplanes assisted by a simultaneous attack on the Ghistelles aerodrome to prevent

#### 1915, Feb.--March.

German aeropianes from cutting off our machines The German advance in East Prussia and in Poland north of the Vistula continues. German columns are niarching on Osowico and have occupied Plock. The Carpathian battle is still going in favour of the

Russians sink a British collicr and a French steamer off the French coast. The rearyuard action of the Russian roth Army during its retirement from East Prussia to the fortified line of the Niemen has evidently caused our Allies heavy losses. They escaped the attempted German encirching movemen near Augustowo, but the reverse they have sustained is serious. The Germans claim that they have taken

50,000 prisoners.

18. 200th day of the war. The battle on the East Prussian frontier is not decided yet, but Germany announces the capture of 64,000 prisoners. Petrograd

reports success in the Carpathians.

reports success in the Carpannans.

19. The Norwegian steamer Betrudge is the first victim of the "blockade," being torpedoed some 9 miles west of Dover this morning. Crew and pilot rescued. The American steamer Evelyn, with cotton from New York to Breinen, struck a mine to the north of Borkum and sank. A fleet of 3 British and French warships attack the lorts at the mouth of the Daranties of the property and and

danelies, silencing those on the European side and danaging those on the Asiatic side.

30. The attack on the Dardanclies forts is renewed, and two of the Asiatic forts are destroyed. The Russian counter to the German advance from East

russia and Posen begins.

21. A German acroplane raid on Essex towns is

- 21. A German aeroplane raid on Essex towns is made. Two bombs are dropped at Branitree, one at Coggeshall, and one at Colchester. No loss of life.

  23. Germans torpedo four ships of the Kentish coast. The German advance in Foland comes almost to a standstill, though highing occus world to Warsaw. Sernous rot among Indian troops at Singapore, fomented by German agents.

  24. The British South African forces operating in German S.W. Africa occupy Gardb.

  25. The Russians occupy the ontwork of Moglly, southwest of Bolimow. Althed airmen make a successful raid on German lines of communication in Champagne. Germany claims to hold serves or prisoners of war.

- raid on German lines of communication in Chainpagnic Germany claims to hold 805,000 prisoners of war.

  26. The Allies begin to diredge the Dardancilles for nines. On the Russian front a great battle is in progress from near Warsaw to Grodno

  27. Dardancilles forts attacked by the Allied fleets, the Queen Litizabeth taking part with crushing effect. The German attack on the Russians ends in disaster, the enemy being in full retreat from the Narew, and in Fact Prussia the Germans are on the defensive
- 28. Germans use bunning liquid against the French trenches. The French take 2,000 yds. of German trenches in the Champague.

  March 1. Great Britain declares the blockade of
- Germany.
  2. In Poland the Germans are again thrown back to their
- frontier, leaving behind them over 10,000 prisoners.

  3. The operations in the Dardanelles progress.
  British battleships enter the Straits and attack
  several of the forts, doing much damage.
  4. The German submanino U 8 sunk off Dover ty
- British destroyers. A force of 12,000 Turks and Arabs surprise a
- British recommitting detachment in the willey of the Tigris. 185 British killed and wounded. Mr. Lloyd George brings in a Bill giving the Government purposer to commandeer factories for munition purposes.
- 10. German submarine U 12 sunk to-day by H.M.S. 4. German supmanne U zz sunk to-day by H.M.S. Ariel. British troops win an important battle, carrying the village of Neuve Chapelle and pressing forward to the east and south-east of the place. Over 700 pri oners were taken, and the German Issess in killed and wounded number many thousands.
  1. The German video Paine East Emodath and
- 11. The German raider Prins Eitel Friedrich puts into Norfolk, Virginia, disabled.
- Severe counter attack on the British forces at Neuve Chapelle repulsed with very heavy loss to the

#### 1915, March—May.

1916, March—May.

anony, 1,720 prisoners being taken, the German losses altogether amounting to 10,000.

15. The German cruser Dresden caught near Juan Fernandez by the Giasgow, the Kent, and the Orama. After five minutes' fighting the Dresden hoisted the white flag, and ultimately blew up and sank. Sir J. French reports that the German losses (March 10-13) at Neuve Chapelle were from 12 and 13 feet.

17,000 to 18,000.

B. An action is fought between the combined British and French squadrons and the great fortresses of the Narrows in the Dardanelles. Four of the forts were slienced, but three vessels of the Allied fleets—the Irresistible and the Occan, of the British fleet, and the Bouvet of the French squadrom—were sunk by mines. Practically the whole of the

crew of the Rouvet were lost.

20. The garrison of Przemysł make a determined but

wholly unsuccessful sortie.

- The fortress of Przemysl falls to-day, surrendering after a siege of six months. The prisoners taken number 120,000.
- 25. The German submarine U 29 was sunk to day,
  26. The Austrians withdraw from the Lupkow Pass.
  April 1. The British South African forces win an important success and occupy Ans, which had been

important success and occupy Ans, which had been strongly fortified.

The Pruse Eucl Friedrich, the last of Germany's fleet of 14 auxiliary cruisers, is interned. The Sultan of Egypt fired at.

The opening of the Allied offensive for the summer The opening of the Allied offensive for the summer campaign has been favourably begun by the capture of Les Eparges. The Germans have lost 30,000 men in this region within the last two months.
 The armed hner Kronfprinz Withelm has put in at Hannylon Roads, Vignia. British casualties up to this day number 130,447.
 Strong Germanr unourcements are being hurried up.

to cope with the Russian advance in the Carpathians 16. Fully 4,000,000 men are said to be engaged in the fighting in the Carpathians,
15. The Allies gain a brilliant success between Arras and La Bassee. Mr. W. G. C. Gladstone, M.P., is killed at the front.

17. A Turkish torpedo boat attacks the Manuton transport carrying British troops in the Egean transport carrying frames troops in the Argent Sca. Three torpedoes missed, but 3r lives were lost by the capsizing of a boat. The torpedo boat was chased and run ashore. The British submarine E 35 lost in attempting a difficult recommaissance of the Kephez uline field in the Dardaudles.

19. British troops gain a notable success near Ypres, conquering Hill 60 and killing hundreds of Germans, The Russians claim to have captured at least 70,000 men in the operations in the Carpathians between

March 10 and April 12.

21. The Germans contains their attempts to recapture Hill 60 without success, losing about 4,000 men within the last three days. 22. 20,000 British and French troops land near Enos.

Hill 60 again attacked with heavy loss.

- Hill to again attacked with heavy loss.

  33. As the result of a surprise attack, in which asphyxiating gases are used, the Gernaus force the French to fall back to the Yser Canal, and the British supporting them are complete to readjust their lines.

  45. The Canadans show splendid gallantry in recapturing guits taken by the enemy.

  25. Germans continue their attacks to the north-east their stracks.
- of Ypres, our troops hold them in check.
  27. Britsh and French troops make good their footing on the Calippil pennsula. The Leon Gawbetta, French cruser, torpedoed by an Austrian submarine, nearly 700 lives lost.
- nearly 700 lives lost.

  30. German aircraft drop bombs on parts of East
  Anglia, but do no ser-ous damage. German longrange guns shell Dumkrik, kiling zo people.

  [ay 1. Two German torpedo boats and one British
  destroyer sunk off the Dutch coats.

  3. The German and Austran forces break through
  the Russlan line in the Carpathlans, and claim to
- have captured 30,000 prisoners.
  The Germans obtain a footing on Hill 60 under
- cover of poisonous gases.



# P. ANDERSON GRAHAM.

Editor of "Country Life," and author of "All the Year with Nature," "Nature in Books," &c.

# Pears' Dictionary of Gardening

"God the first garden made."-COWLEY.

"Gardening, which inspires the purest and most refined pleasures, cannot fail to promote every good affection. The gaisety and harmony of mind it pro-duces, inclining the spectator to communicate his astisfaction to others, and to make them as happy as he is himself, tend naturally to establish in him a habit of humantity and benevolence."—LORD KAIMES.

"Go thou, and like an executioner, Cut off the heads of too-fast growing sprays, That look too lofty in our commonwealth; All must be even in our government,— And thus employed I will go root away The noisome weeds, that without profit suck The soil's fertility from wholesome flowers.

We at time of year
Do wound the bark, the skin of our fruit-trees,
Lest, being over-proud in sap and blood,
With too much riches it compound itself.

Superfluous branches.
We lop away, that bearing boughs may live."
SHAKESPEARE: Richard II., ii., 4.

"The soil must be renewed, which, often washed, Loses its treasure of salubrious salts, And disappoints the roots; the slender roots Close intervoven where they meet the vase Must amonth be slorn away; the sapless branch Must by before the knife; the withered leaf Must be detached, and, where it strews the floor Swept with a woman's neatness, breeding else Contagion and disseminating death."

COWPER: The Task.

#### INTRODUCTION.

# By P. Anderson Graham, Editor of "Country Life."

#### THE PLEASURES OF GARDENING.

Gardening is one of the most ancient, if not the most ancient, occupations of the human sace, and there never was a time when it could be pursued with more interest and profit than at the present moment. It is also an occupation open to everyone; the poorest may practise it on a small scale, and the richest may find in it wide scope for the use of capital. It is open to the possessor

of a single flower-pot to grow something interesting or beautiful.

Window gardening during recent years has received the attention of the most cultivated taste, and might now almost be classed as one of the fine arts. Outside there is scarcely anything that cannot be ornamented and rendered beautiful by an outlay of time, money, and trouble in accordance with the ambition of him who exercises it. A fine old wall can be rendered still finer by growing upon it suitable plants such as wallflowers, snapdragon, foxgloves and the various lichens and mosses which he who wishes may find exhaustively enumerated by Miss Jekyll. The ugliest new wall may be changed into a thing of beauty by a judicious use of evergreens and creepers.

new wall may be changed into a thing of beauty by a judicious use of evergreens and creepers. The gardener who is fortunate enough to have on his ground the smallest pond or the tiniest rivulet may find a delightful task in growing the various plants suitable to water. The ground itself can be made to yield effects that scarcely were thought of by our ancestors in this art. But there are at least two very opposite sides to gardening. One is the scientific, in which the desire is not so much to produce beauty as to gratify curiosity. Of recent years hybridisation has been carried to a very high pitch of perfection, and Mendelism has been applied with such practical effect that scarcely a season passes without seeing the production of some floral novelty that is at once attractive and full of interest. And the scientists have shown what further work is possible in this direction, so that here are any active fords a wide field for his expressivate and instruction in this direction, so that here an amateur finds a wide field for his amusement and instruction. If he is content simply to grow new and strange plants, he has but to consult the lists of those seedsmen who make a point of keeping abreast with the times, and if he goes deeper into the matter, these are days in which the partals of science are thrown wide open, so that it is extremely easy to obtain the knowledge and materials necessary to make experiments of one's own. But the scientific student is not engaged only in preparing the material out of which the beautiful gardens are finally made. Those who study effect only will not fill their gardens with novelties. They know that many of the commonest flowers—those even that approach weeds in their character, under proper treatment and management, usually by the process of massing—can be made to yield a beauty as charming as that of the most expensive orchids. One has but to look at a great mass of poppies covering a field of corn, or a breadth of speedwell rendering the corner of a field or the bank of a river azure, to see how Nature, the most skilful of all landscape gardeners, works.

The true principle of gardening is to follow her methods faithfully and truly. It would take a huge treatise to deal fully and finally with the subject, but perhaps the gardener is happiest who works out his own salvation, that is to say, who thinks of the effects he wishes, and uses his own means to produce them. The little treatise to which I have been asked to write this brief introduction will be found to contain information about the common materials required by the gardener, and simple directions about the operations appropriate to each month and season of the year. The writer has not confined himself to flowers, but has also dealt with the kitchen garden, so that those who do not aspire to go any further than the production of vegetables will find in the succeeding pages the information necessary for the task. In itself, the growing of vegetables is one of the most fascinating of all pleasures, as here, too, we find an advance and an improvement that could not have been expected a year ago. Moreover, in spite of all the modern facilities for getting fruit and vegetables to market, it may be taken as an incontrovertible fact that nothing purchased at a shop or store possesses, the freshness and delicacy of taste of that which is taken direct from the soil to be put into the pot. No one can possibly appreciate what is the best in vegetables until he has learnt to grow them in his own garden.

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## THE GARDENER'S REMEMBRANCER.

EXPLANATORY: - Ready reference considerations have led to the arrangement in dictionary order of the descriptive matter and cultural directions contained in the following Gardening Manual under three heads, viz:-1, Flower Culture (embracing ornamental outdoor work as well as Greenhouse and Window gardening); 2. The Kitchen Garden; and 2. Fruit Growing. It will be helpful, however, to give first a concise general

## GARDENING CALENDAR.

January. — Manuring, digging, and trenching operations should be completed in propitious weather in the kitchen garden, and flower borders made or renewed, where this has not been done before the New Year. Gravel walks may be laid down and well rolled after wet, box and other edgings mended Rose and fruit trees may be planted still in open weather where requisite; prune old and dead wood from such where requisite; prune old and dead wood from such of the latter as are left stationary, and have not been attended to. Bulbs may be put out yet for late blooming, those which are showing above ground being protected from frost. Prepare hot beds for asparagus and mushrooms as convenient. In gentle heat or in frames musk, single begonias, ageratum, and other seeds may be sown as well as tomatoes, and cucumbers for early cropping, and broad beans and lettuce on sumny border; while peas for early planting out should be sown in pots, and chrysanthemum cuttings taken. Potatoes may be planted too in frames and dablie Potatoes may be planted, too, in frames and dahlia rots overhauled in readiness for starting new sets. Rhubarb and seakale should be covered for blanching, or placed for forcing in warm unlighted sheds. Plant and other fruit trees on walls will, in many cases, be and other fruit trees on walls will, in many cases, be better for training, trimming, and nailing, and turfing may be advantageously undertaken now, when the ground is in proper condition. In vineries a temperature of sixty degrees or a little over ought to be maintained during the night for vines well started, but where later grapes are the object keep the temperature lower. A good greenhouse temperature for January is forty-five degrees for general purposes, not more than five degrees below by night or five above by noot work that five degrees below by night or five above by noot should be carefully secured, and watering judiciously attended to as growth increases. Cleanliness is most essential and mildew must be guarded againt. Soft-wooded plants of all kinds ought to be given the warmest places, near the glass, and bulbs for against. Some-wooded plants or an initial out to be given the warmest places, near the glass, and bulbs for flowering afforded shade, the colder positions in the house being allotted to hard-wooded plants like heaths, camellias, or the azalea tribe. Fuchslas may be cut down and re-potted, and cuttings taken from the new-started shoots for summer-bedding. Fabruary.—Gooseberry bushes and strawberry beds should be manured, as also herbaceous borders,

betts about to statuted, as also included lightly. Raspberries may be planted in prepared positions, shortening the canes whether they are transplanted or otherwise. Sow sweet peas and half hardy annuals of

all sorts under shelter; and cauliflower, kidney beans, and other tender vegetables in hot beds. Celery, onions and salading should be sown in shallow pars or boxes, and parsnips on prepared beds. Tomato, cucumber, marrow, and meion seedlings coming on in heat must be thinned and transplanted, and more sowing done where wanted. Roses will repay liberal dressing with well decayed manure, but pruning even the hardiest and best established should be deferred, where the sentest possible blooming it he ambre except where the earliest possible blooming is the only desideratum, and then the risks incurred by the use of desideratum, and then the risks incurred by the use of the knite before March are grave. Sow marjoram, thyme, and other pot-herb seeds towards the month end. Vines may now be forced to meet fruiting requirements and pot strawberries stimulated in growth. Plants in the greenhouse should be shifted and given a good start whenever nocessary, any reand given a good start whenever nocessary, any re-porting being discominately done. Amongst the savourite herbaceous pot plants such as cinerarias, and calceolaras, green fly needs circumventing by timely famigation, pelargoniums should be trained and lept free from damp foliage and draughts, and everything coming into flower well watered save the camellias, coming into nower well watered save the camellias, which wan little, care being exercised also not to wit the hearts of the primilas. Bedding plants such as cuttings of geraniums, heliotropes, petunias, and calesolarias, must now be rooted for supplying the garden borders in due season, their temporary developing quarters being systematically prépared and protected against had weather. Dahlis tubers need exclusions into steady healthy growth prior to division for cuttings being taken, and tender annuals and climbers for later outdoor planting may be carried forward a stage in cool pits or frames well sheltered from frost. Carnetions, piccotees, auriculas, etc., in frames can now be fully exposed when the exterior air is well above freezing point; they must, however, not be over watered, and the lights of the frames must be kept on

watered, and the lights of the frames must be kept on during wet and foggy weather.

**March,—Cut back and trun ornamental deciduous trees and privet and other hedges. Shrubs and bushes of all kinds, particularly such as have been trans-planted, require staking, tying, and in some cases temporary shielding against high winds. Gladfold may be planted, in flowering positions for the main display, and hardy biennials placed in the borders, whilst the division and propagation of perenaists must be pre-ceeded with. Tulips, hyacinths, etc., should be

carofully guarded during frosty weather in exposed situations. Sow hardy annuals in the beds. Complete dressing round fruit bushes, and finish pruning fruit roses, protecting those ahowing but in severe pells. Put in protecting those ahowing but in severe pells. Put in protecting those ahowing but in severe pells. Put in protecting those ahowing but in severe pells. Put in the morth as possible, and covering them against frost until safely established. Mushroom beds and cucumber pits will want attention, and tomato piants coming on in bottom heat also. Growing vines and covering them against frost until safely established. Mushroom beds and cucumber pits will want attention, and tomato piants coming on in bottom heat also. Growing vines should be syringed frequently, and young shoots encouraged. Most things in the greenhouse will now do with additional watering. Now is the best time for sowing in gentle heat primulas, begonias, and kindred subjects for subsequent indoor decoration, also in boxes pansies, polyanthus, etc. Pot on geranium, fuchsia, and other cuttings that are well rooted, affording increasing air after they are well established in their pots. Dahlia cuttings must be taken, the nearer the old stem the better, and planted in light, sandy compost separately in small pots, and plunged in hot beds to stimulate root development. As sunlight strengthens, the shading of glass structures in which growing stuff of almost all sorts is present will become more and more requise to obviate fagging. In the case of young plants especially this is of more importance than the waterpot, which is often over used. Water of the temperature of the air surrounding is what everything requires, be it in greenhouse, heated frame, or elsewhere, and that only when mosts rue in the protection of the target premium, and the fulling, and conservance and the ackied discreetly, remember.

water or too temperature of the air surrounding is what everything requires, be it in greenhouse, heated frame, or elsewhere, and that only when moisture is not reaching the roots with sufficiency.

April.—Lawns require mowing and rolling, and rose-pruning should be tackled discreetly, remembering that comparatively late cutting to two or three buds on a rather weak variety, and to four or five buds on the stronger sorts, eliminating all weakly growth, is likelier to produce more satisfactory results than the too early and yet timorous handling of the kinle. The hardler hybrid perpetual and bush roses should first be dealt with, standards next, and wall and tea rose generally last of all, these being pruned less drastically. In every case the soil should be well sturred round to suck as being formed less drastically. In every case the soil should be well sturred round to suck as being formed each of the nutritive and charge applied, all of an suck as being former weed growth and plant suck as being former weed growth and plant suck as the product of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck of the suck

and plenty of room allowed for development. The most delicate species should be kept in shelter until frost risks are past, so that no stoppage succeeds the planting. Select a favourable relative position for every plant, spread out the roots nicely, and press firmly, shade and water, and keep the snails and slugs away, replacing failures from reserve. Thin out growing annuals and other seedlings to prevent crowding; peg down petunias, verbenas, and trailing geraniums, carnations, and everything requiring support. Syringe the aphildes off the roses, and from standards rub away growth buds on the briar stock as soon as they show, tying back growing shoots on the wall varieties to obviate injury. Judicious thinning of wall and tree fruit will be repaid; pick off caterpillars from currant and gooseberry trees as they appear. Sow salading, parsiey, etc., and prepare outdoor marrow and ridge-cucumber beds: sow runner beans in rows for regular cropping, and continue slightly to earth-up peas that parisely, etc., and prepare outdoor marrow and nage-cucumber beds: sow numer beans in rows for regular cropping, and continue slightly to earth-up peas that are getting forward. Transplant cabbages, thin par-snips, carrots, and onlons. Cucumber frames should be carefully ventilated, damping the soil and woodwork lightly before closing in the early evening, and pinch tite trailing shoots back to within three leaves of a formed fruit. Conservatories, greenhouses, and frames are undergoing great clearance for bedding out and placing of pot plants on ornamental stands, as well as the filling of window boxes, vases and hanging baskets; opportunity should be taken to overhaulthe larges specimen plants in the houses, trimming and reporting where necessary, and training up roof and pillar climbers, applying a top dressing of soil where shifting is not wanted. For on young stuff to fill the staging. Thinning and stopping of lateral shoots in the vinery for the later grapes, and feeding for those with ripening fruit, will be requisite.

Thinning and stopping of lateral shoots in the vinery of the later grapes, and feeding for those with ripening fruit, will be requisite.

June.—Watch the filling out of the bedding plants according to design in the borders, trimming edgings and rows neally and keeping creepers within bounds. Stake stems wherever the need is evident, stirring the ground and watering well when the sun is not up, to ald growth and flower formation. Seeds may be sown of calceolaras and other plants for next year's flowering. Establish outdoor tomatoes in sunny positions. Look after the marrows and respant mushroom beds. Thin out seedling vegetables and eradicate weeds by hand and hoe, transplanting cabbage and other culinary greens on moist days as requisite. Dishad young growing vines, encouraging only a sufficiency of the likeliest shoots. Pot herbs should be cut and dried on attaining maturity. Where azaleas, heaths, epacrises and camellits are being brought on in the greenhouse, most heat should prevail to encourage growth, prior to turning the plants into the open to harden for winter blooming, Gloxmans, chumenes, etc., should have shade and plentiful watering as the flowering period approaches; balsams must be shifted as rapidly as possible. Train standard fuchsus nently, keeping the budding prays to the light. Pot chrysanthemums for blooming, and place them in the open when the roots have gained good hold. Pelargoniums, show and fancy, as they finish blooming, are to be placed, if possible, in cod, well-aired frames for hardening their shoots, the best cuttings being used for rooting.

July.—Rose-budding is most successfully accom-

mish blooming, are to be placed, if possible, in colvell-aired frames for hardening their shoots, the best cuttings being used for rooting.

July,—Rose-budding is most successfully accomplished this month. Pillar roses and climbers generally require training, typing, and thinning, while plentiful syringing will be helpful where green if y gives trouble. Secure dahlia shoots against wind, and trap earwigs before they can work danage. Feed chrysanthemums and remove side-shoots and tops of the tallest. Pinks may be divided as soon as flowering ceases, carnations layered, and verbena cuttings may be struck under glass. The various tuberous aneuiones, ranunculuses, and the like may be taken up and kept for autumnal replanting. Water everything in the border copiously in dry weather, and keep all in trim. Wireworms will do much mischlef among carnations if not caught in pieces of potato inserted below the soil surface. Campanulas and other blennials and perenials may be sown, and flower seeds gathered from the garden as they ripen. Grass lawns and edgings call yet for great care, and weeds must be kept off the

paths. Strong-growing bedding stuff and spreading herbaceous plants have to be held in check. Vacant places in the kitchen garden need preparation for the reception of winter maturing vegetables, and bearing beans and peas will yield the better for liberal supplies of weak manure well soaked in. Parsley should be thinned out, and lettuce transplanted; turnips may be sown where new potatoes have been dug. Full-grown onions may be taken up, and vegetables generally gathered as soon as they are ready. Mutch raspberries and secure strong strawberry runners when fruiting is over to form new plantations. Cucumber plants in frames and marrows out of doors should be watered freely, and tomatoes trained and stopped systematically. Shading will be requisite in all vineres where grapes are ripe, to prevent shrivelling, and

watered freely, and tomattee trained and stopped systematically. Shading will be requisite in all vineries where grapes are ripe, to prevent shrivelling, and fig trees may be advantageously pruned now. It is difficult in July to over-ventilate an ordinary greenhouse. Cape leaths repot now safely, should the shift be needed. Calceolarias may be sown.

**Magust.**—Watering and weeding is almost a daily duty in the flower garden, and surface dressings may be renewed round choice roses. Evergreens need rruning to prevent overgrowth, and thrift edgings should be trimmed, Keep the seed posts picked off annuals to prolong the blooming period, particularly in the case of the sweet pea family. Gorss growth in dahlas must be checked. Layering of carnations and picotees will still succeed if a good comport be employed; jayers already rooted should be lifted and potted off. Cuttings of bedding plants that are likely to be wanted should be taken now. Rose cuttings may be struck in light soil over a mild hot bed, potted up and hardened gradually. Pinks, pansies and large double walldower cuttings recently rooted, may be placed in the open to stand the winter. London Fride and other saxifrages are propagated by the removal of offshoots in August with ease. The bass hinding should be loosened on budded rose stocks. Lime is effectually employed in the kitchen garden to lessen the ravages of smils, and catepillars must be hunted and destroved on savoys and the rest of the cabbage effectually employed in the kitchen garden to lessen the ravages of smalls, and caterpillars must be hunted and destroyed on savoys and the rest of the cabbage kind, while pea and bean hauhn requires clearance as cropping concludes. Well water runner beans at the roots, make a final sowing of endive to stand winter and get out the last of the transplanted celery. Ven and get out the last of the transplanted celery. Veriliate vineries, and stop young canes when they reach the top of the liouse. Dust with flowers of sulphur any chrysanthenums which are showing signs of midew, giving manure water liberally. Seedling auriculas, calceolarias and cinerais may be potted when ready; and half hardy annuals like nemophila, rhodantic, and collins sown in pots for winter flowering. The tenderer pot plants retnoved from the greenhouse for the property and the contract of the property and the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prop tenderer por plaints removed from the greenhouse for summer exposure ought to be taken in again by the month end, particularly when there is continuous rain. Hoe and rake shrubbery borders. The selection and training of young shoots for next year's yield should be seen to in the orchard as the various fruit trees

training of young shoots for next year's yield should be seen to in the orchard as the various fruit trees complete the season's growth.

**Beptember**, —Falling leaves give a lot of work on lawns and flower beds now. Clear all up daily, and give unremuting attention to plants blooming in the borders to obviate overlapping and rank luxuriance. Dahlias should be tied in, and side shoots cut away. Late in the month put out bulbs for spring display, hyacinths and the like being placed simultaneously in pots and glasses for window decoration, varieties of the narcisaus tribe being similarly treated. Earthingup celery may be proceeded with, potatoes dug, and arrangements for the winter and spring cropping of the vegetable ground carefully completed. Lindonlons, drying them well in the sun, and gather tomatoes; transplant lettuces into frames for winter cutting, and thin spinach. Apples for keeping should be allowed to hang as long as possible, and be laid carefully away in a dry storing place. Borders may now be made ready for planting young fruit trees, and struwberry beds for the ensuing main crop should be filled with healthy young plants. Danp must be avoided in the vinery where late grapes are ripening, and firing attended to. Larly vines, pot or planted, and the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of which plant of the plant of the plant of the plant of the plant

moisture now, and mildew is a danger to be overcome by caution in this respect and by the timely sprinkling of sulphur over the leaves. Before the greenhouse is filled for the winter is a good time for a repainting, which should be quickly and efficiently done on dry days. From outdoors and the cold pits the heaths, azaleas, camellias, and the rest of the plants for winter growth and blooming can then be stood in the best positions to remain. Pelaryoniums cut down after flowering and re-established for specimens, as also fuchsias, well hardened, will also come in to keep dry for the winter. The propagation of half-hardy plants by cuttings should be completed, frames as well as the warmest spots in the underpart of greenhouses and conservatories being fully utilised for the purpose. Striking having been accomplished on bottom heat, the cuttings will come on safely in a temperature of fifty degrees or so, which should not be exceeded in the greenhouse in autumn and early winter. Watering must be moderate, and ventilation free, so long as frost is never allowed access to the houses.

is never allowed acress to the houses.

is never allowed access to the houses.

October.—From the summer flower-beds everything that has had its day having 'seen removed, the time has some for substituting lardler species. After the clean sweep there must be a thorough forking and dressing, and then wallflowers and many useful biennials and perennials, brought on for the purpose, are to be planted in the places of the summer occupants of the borders, the taller growing things farthest from the front. Polyanthuses, violets, narcissus, princoses, pansles, well-divided rockets, lychnis, and bordering of rabis, alysum or other suitable frost-resisting, low-growing plants can now be put into position, spring blooming bulbs being interspersed according to fancy. There is endless variety attainable at small cost and easy of cultivation. Permanent borders may now be easy of cultivation. Permanent borders may now be duc, and all the dead wood from shrubs cut away. Take up dahlia and begonia tubers as well as gladioli corns, and put them by, well dried, for the winter rest. Transplant ornamental deciduous trees and flowering Transplant ornamental deciduous trees and flowering shrubs. Chrysanthemms in pots must be taken to their blooming quarters before the frost can injure them, and some of the choicest pansies as well as all calceolarias worth keeping put into unheated frames for protection. Prepare tuilip beds for massing effect, using a good depth of light fibrous loam to receive the bulbs. Primulas and cyclamen should be kept warm in bulbs. Primulas and cyclamen should be kept warm in pits preparatory for removal to greenhouse or con-servatory shelves for flowering when bloom is scarces; a and stocks, mignonette and many other tilings wanted in spring can be accommodated similarly. See that every plant in the greenhouse is clear of green fly, scale or other pests, and keep all kinds of succulent plants free from excessive water. All established vines which

other peats, and keep all kinds of succulent plants free from excessive water. All established vines which have finished fruiting may now be thoroughly pruned, if the wood is ripened hard, and a good general cleaning of the canes, by the removal of loose bark, is desirable, coincidently with a dressing of the borders as requisite. In the kitchen garden late planted cabbages, brocoll, turnips, etc., should be well hoed. Young lettuces and cauliflowers may be planted on sunny borders, and pot herbs put in convenient places. The last of the potatoes having been lifted, and beet, carrots, paranup, etc., safely stored, the ground should be well dug, trenched, and manured. New fruit trees may be planted, and old ones where necessary root-pruned to keep down gross and unproductive growth. Novambax.—Edgings of all kinds in the flower gardens need trimming up well, and new ones of box can be planted at the beginning of the month. Digging and manuring, wherever fork or spade can be got to smoke, its essential, and opportunity should be taken to amalgamate with the soil in the process as much manure as is required. Levers should be cleaned up and well rolled when the last fellen leaves have been swept away, and then left till the grass begins fresh growth. This is the best time to transplant most roses; their reots should be carefully spread in prepared ground, and pressed into a good compost, a surface dressing being given to complete all. The tenderer tea and climbing varieties, where exposed, may advantageously receive planted in the first week of the month, also the early flowering gladioli in pots. Phloxes divide and move

now. In the general clear up in the flower garden all stalks of stationary herbaceous plants should be cut away and burnt, with the rest of the accumulated rubbish and dead leaves carefully collected for rotting to mix in due course with porting compost, Prune gooseberry and currant bushes, also prune and nail wall fruit trees, and thin the larger orchard varieties judiciously, replanting and manuring as necessary. Rhubarb must be cowered with litter, also endive and frostected. A soot dressing should be scattered about cauliflower and cabbage plants. Hot beds should be renewed where exhausted, and fresh mushroom spawn placed in prepared beds for winter yield. Radishes, settuces, and small salad stuff can be grown in frames, to come in handy before those produced out of doors are ready. Young vines may be started in bottom heat npits, or over the fues in the vinery, which is usually utilised for the wintering of plants that do well there without injury to the grapevines overhead. In the conservatory there should now begin to be a good show, the chrysanthenums, geranlums, primulas, etc., affording the colour staple, while ferns, begonias, palms, and other ornamental plants combine to form an agreeable and easily varied decorative arrangement. The Roman hyacinths, early started, and some of the powerfully scented giant mignonettes are also among the flowering plants available for the end of the your in powerfully acented giant mignoneties are also among the flowering plants available for the end of the year in glass structures. The temperature ought to be equality maintained, overheating being guarded against quite as much as cold draughts. Remove all dead leaves and

as much as cold draights. Remove all ocad leaves and loose dirt to keep the air sweet and clean.

December.—Everything liable to injury by severe frost in the garden should receive some slight protection during its prevalence, and cocoanut fibre may be strewn upon bulb beds. Sweep snow from lawns, shake it from conifers, and roll grass when not too

frosty, Gravel or other walks ought to be kept tidy. Turing may be done early in December; good sods, firm flat fixture, and frequent rolling thereafter are essentials of success. Following severe frosts, it is well to press carnations and pinks firmly into the earth, and pansies may be treated likewise. Manure dressing may be applied advantageously to borders, which have previously been well forked, either between growing plants, or where vacant eatirely for the time being. It is a good plan to be active with the spade and fork in the garden in the winter, without disturbing the vegetation, dormant or otherwise. Any alterations, such as making fresh paths, or laying out new bods, can now be carried out. Northing is werse than leaving the garden to look after itself all through the cold months. Horticulture must be systematic and practically ceaseless. In dry weather trenching and manuring may be pursued in the kitchen garden, and early-sown peas and beans peeping through should have the loose earth gently drawn up on each side of the rows for protection. A light covering of litter will be helpful to strawberry beds in frost. Give air cautiously during severe spells to pits and frames, and cover those containing delicate things with mats at night. Keep cinerarias and calceolarias near the glass, and water carefully as requisite when the flowers are coming out. Auriculas in frames, also carnations stood on ashes, should be kept cool and dry. Damp the early vinery carefully as requisite when the flowers are coming out. Auriculae in frames, also carnations stood on ashes, should be kept cool and dry. Damp the early vinery floor on bright days as branching proceeds, and keep an eye on the outside border to see that the vine roots are practically as warm from the fermentation of material employed outside as is the foliage within the structure. Keep the greenhouse dry, and not too warm. Plants wanted for earliest flowering should be placed nearest the glass. Fancy pelargoniums and other subjects liable to harbour green fly must be watched and cleansed on the first appearance of the pest.

### FLOWER CULTURE

(Embracing Window-gardening and Greenhouse Work)

Abelia.—Abelia rupestris is a useful deciduous study, reaching a height of 3 feet, and bearing in early autum clusters of fragrant white bloom. Plant in a sheitered snny position, in good light soil.

Abronia Umbellata.—Roy-lilac, half hardy

annual, 6 inches.

amual, 6 inches.

Face-growing, hard-wooded green-house shrub, bearing pretty and distinctly formed flowers, some varieties having variested foliages. Useful for training round pillars awan indoor pot-plant, and for plunging in a sheltered spot in the garden at the lack of a bed in summer time. Sow in bottom heat in spring, and transplant into rich soil, or strike in September, porting off into good-sized pots.

Acadia.— The yellow mimosa makes a good green-house or window plant, and is easily cultivated. The Locust tree is really not a true acacia, but is a favourite for planting in ornamental shrubberles, and sheltered front gardens, where it will rapidly grow to a great height, though taking many years to mature. Bears sweet-scented blossom in June, and has particularly graceful foliage.

Bears awest-cented biossom in June, and has particularly graceful foliage.

Acanthus.—Beautiful leaved South European herbaccous perennial grows and flowers well in light border soil. Raised from seed or puppagated by division. Commonly called "Bear's breeth.

Achimenes.—Raised from seed in a hot-bed in shallow well-drained pots, these pretty plants bloom well in a warm greenhouse or conservatory, and do nicely in decorative hanging baskers. Leaf soil, fich leam, and silver sand, with a few lumps of charcoal over the drainage, should be employed, and they should be kept moist at the roots when growing and flowering. flowering

flowering.

Acoustic.—The blue monk's-hood is often grown at
the back of borders or in front of shrubberies, where it
gives little trouble. There are white and purple sorts,
less common, but also pretty. The winter aconite.

yellow flowered, is popularly called "The New Year's Cift" because of its early blooming. It will grow in any corner almost, and gives no trouble. Seed of all any corner amost, and gives no trouble. Seed of an the aconites may be sown in summer, and the young plants should be kept well-watered, and removed to their permanent quarters in the following year, or propagation by root division, as with many other

their permanent quarters in the following year, or propagation by root division, as with many other perennials, is safe and easy.

**Agaparthus.**—August-flowering African illy, for pot culture or massing in beds, in the summer with pladioli; the blue or white varieties are very effective. Must be kept dry in winter, and if left out of doors protected from frost. Thrives in strong loam, not too rich, and does well in large pors or tubs. Well water with liquid manure in warm weather.

**Egawa.**—The American aloe is the most generally cultivated of the agaves, and will stand in a big pot or vase on a terrace for many years. Whatever the agave is grown in should be well-drained, and the compost be fibrous loam, and coarse sand, with some old mortar, the whole firmly rammed down. To dressing under the thick, fleshy, thomy-edged teaves may be applied occasionally with advantage. Heavy out may be potted off. Specimens planted out in favourable situations will reach 12 feet high or more. The plant dies after flowering steet high or more.

**Agaratura.**—Dwarf, half hardy annual, bearing grey, bise, white, or rosy blossom, the former being oftenest met with. A useful bedder, easily asised from seed in gentile heat in March, or may be sown in a sheltered position outdoors later, and transplanted before placing in the border. Succeeds best in good favourte.

**Alexatura.**—Dwarf, half hardy cannual, bearing grey, bise, white, or rosy blossom, the former being oftenest met with. A useful bedder, easily raised from seed in gentile heat in March, or may be sown in a sheltered position outdoors later, and transplanted before placing in the border. Succeeds best in good favourte.

**Alexatura.**—Dwarf, half hardy cannual, bearing grey, bise, white, or rosy blossom, the former being oftenest met with. A useful bedder, easily raised from seed in gentle heat in March, or may be sown in a sheltered position outdoors later, and transplanted before placing in the border.

Alonson Waroswiczii.—Bright, scarlet-blos-med half hardy annual, ri feet, prolific and useful for cutting.

Aloysia.—(See Lemon Plant.)
Alpine Plants.—The auriculas, gentians, and numerous other hardy favourites of the rock-garden and permanent border, indigenous to mountainous districts, come under this category. Most can be raised without difficulty from seed and started in small control to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the raised without difficulty from seed and started in small pots with a strong loamy composit containing sharp and and grit, while some are also propagated by division. As a general rule, this class of plants, however, like leaving alone when well established, so that it is important to place them properly in the fart instance, leaving room for natural development, and relying on seedlings for renewal or increasing stock Good drainage is an essential of successful pot culture.

Alastromeria.—A showy, tuberous-rooted perantal, suitable for border cultivation, and needing protection in severe weather, with good soil to insuriate in. Can be raised from spring-grown seed, and needs well watering in summer. Flowers, a mixture of yellow, orange, and intervening shades to faming scapiet.

Alyssum.—Hardy, compact-growing border or

flathing scalet.

Alysaum.—Hardy, compact-growing border or rockery perennial, useful for edging purposes, 6 inches to a foot high. The variety saxalie is a very early golden-yellow flowering subject, and argenteum has beautiful silvery foliage. Seed should be sown in May to produce, plants for following season's blooming, or cuttings can be put in a cold frame to start at the same period. The rock madwort, as the perennial alyssum is called, flourishes in sunny town borders. The sweet alyssum'is a prolific British annual, which may be sown out of doors in April where wanted to bloom. It is white flowered. It is white flowered.

Amaranthus,-Useful and distinctive annual,

It is white flowered.

Amarenthus.—Useful and distinctive annual, at feet high. Caudatus (the well-known Love-lus-beeding) and Hypochondriacus (Prince's Feather) are very useful for borders.

Amaryllik.—This bulhous-rooted plant may be given pot-culture in a greenhouse, being placed in deep pots as near the glass as possible, or out of doors, under a south wall, in good, rich, peaty loam, mixed ith matured stable manure. It reaches a feet high hen at perfection, and bears gay, lily-like bloom, 'her of white ground with rosy-purple flushing (as the civiliadonna lily) all white (as Longifolia alba), or 'mson (as Formosissania). There are other varieties, cluding Lutea, which is yellow, and f 'ern in utumn. They should be plunged in 6 incas deep for outdoor culture and protected in winter; while the "ulbs for pot growth must be planted up to the neck, and are best started in heat in spring. Whilst leaf formation proceeds, water freely.

Internation—The well-known "wind-flower" is difficult to the proceed of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co

is the stabilished, though some authorities advocate replanting after three or four seasons to avoid soil exhaustion and consequent deterioration of bloom. Lafting the mass with a fork and enrichment of the ground under the stool and around will suffice to sustain the choicest anemones at their best, if good rotten manure and sharp sand he plentifully employed. Many varieties will flower in mid-winter weather, and the scarlet fulgens is generally very early. The summer and autuan blooming Anemone Japonica is very hardy, and its long flower stalks and cup-shaped white blossoms are always admired. The poppy-flowered French sorts are easy to deal with, and many of the singles can be grown from seed. It is not necessary, or even desurable, to lift the tubers after the leaves have died down when flowering is done, especially as regards the double anemones.

**Ennuals.**—The hardest annuals, as the term is generally understood in connection with flower culture, are those which will stand the vagaries of our climate; are those which will stand the vagaries of our climate;

generally understood in connection with nower cultures; are those which will stand the vagaries of our climate; but there are other species very much favoured in the graden which cannot at any stage endure frost. All are raised from seed, and their culture generally dealt with in due course under that head later on. It

DICTIONARY OF GARDENING.

is sufficient to state here that the amsteur who proceeds with care and discrimination, though he does not own a greenhouse or even a frame, can succeed in cultivating, if he takes the precaution of precuring good seed and attending closely to the directions, an immense variety of beautiful annuals, half hardy and tender. But he must approach the task with circumspection and systematically, using his wits as well as his hands, and not buying a lot of packets and emptying them out over borders or into boxes in patches, leaving Nature to do the rest. The growing of annuals of all kinds from seeds germinated in one's own garden is much more satisfactory than the purchase of plants raised in a nursery, though there is an added amount of trouble entailed. Also the former plan can be pursued with economy; wherefore let each home gardener seek to have all the glory of providing his own display of annuals, and profit pleasurably by his practice. This dictionary, diligence, the instructions given on the smallest packets nowadays by reputable seedsmen, and experience together, will enable anyone with a real love for flowers to make a grand show almost all the year round, in a garden of roderst dimensiors, at a very small outlay, out of annuals alone. All the most desimble varieties will be found entered in the alphabetical order of their names here.

Antirrhinum.—The snapdragon is an old garden forourite, and a useful perennial that can pur up with

Detical order of their names nere.

Antirrhinum.—The snapdragon is an old garden favourite, and a useful perennial that can put up with poor soil, especially if the at all chalky. The more vigorous type of antirrhinum grows well upon rockering and even on old walls; but good soil tends to perfection with the choicer varieties which floracultural selection has produced. Many fine-flowered selfs are now has produced. Many fine-flowered selfs are now obtainable from seed, as also striped, veined, and marbled sorts of great beauty. By sowing in heat early in February, all snapdragons may be treated as annuals, transplainting into sheltered situations in good soil, to be moved to their permanent positions in May, when they will bloom in early autumn. After the flowering, cuttings may be taken, and will root easily in cold, close frames. The old plants may be cut down and extended for early summer flowering.

flowering, cuttings may be taken, and will root easily in cold, close frames. The old plants may be cut down and returned for early summer flowering. A sowing of this favourite perential may also take place out of doors in June, and transplantation to blooming beds in September, when the flowering will commence early the season following. They are very hardy, and resist drought, but should be moved on moist days.

Aquilagia. (See Columbine.)

Araucaria.—A Chillian cone-bearing tree of a peculiar, yet highly ornamental character, with stift, strught branches, almost at right angles from the stem, covered with pointed leaves, the variety most usually found out of doors in this country being imbricata, the "monkey-puzzle." Likes open situations, and will carry snow without injury, but is sometimes browned by severe frost. Not easily moved after establishment, but will stand for meany years on lawns or in parks after it is established

Arbutus.—A beautiful flowering and fruiting shrub, sometimes called the strawberry like fruits. Can be raised from seed only layering, and flournshes near the coast in warm situations, growing best in peaty loam. It will reach the feet high under favourable conditions. Smaller spesimens of certain kinds of arbutus are grown a cold greenhouses for decorative select.

ten feet high under tavourable conditions. Smalles spedimens of certain kinds of arbutus are grown in cold greenhouses for decorative effect.

Aristolochia Sipho, the "Dutchman's Pipe,"—An ornamental climber with large leaves and peculiar shaped flowers; thrives as a greenhouse and sheltered out-door pillar plant when grown in good peaty loam, with a mixture of clean, sharp sand. Propagated by root divisions and spring or autumnal layering.

Arum.—An easily cultivated plant, sometimes called Richardia and Calla, and more popularly the trumpet or Nile lily. Grows freely from offsets, and requires protection from fost only. Should be re-potted in October in good light soil, having rested in a dry place after finishing blooming in June; but in the growing state cannot have too much water if the soil is wall drained. Its heautiful flowers are most distinctive.

Aspidiastra.—One of the best of room-plants, not affected by gas fumes. Will keep in health for years in ordinary soil if nicely dramed. sparingly watered,

and occasionally sponged. Bears small and insignifi-cant flowers close to the soil, and is increased from

suckers.

Aster.—Indispensable garden flower. Very varied in height, form, and flower shape, as well as coloration. The old China aster, sinensis, 13 inches. has white, sed, and blue shades, sell or suffused. Then there are the giant comet varieties with very large flowers, the perty dwarfs that keep down to a or 3 inches, the peropy-flowered type, the quilled German sorts, the flat French varieties, incurved, and others. Any of these can be grouped effectively in beds, and answer the demand for cut flowers admirably. They are treated as half-hardy annuals, sown in March in boxes or pans of light rich sandy soil under glass, an an airy sunny situation, transplanted later in a sheltered yet uncovered place to spread their roofs and become

or pans of light rich analy soil under glass, in an airy sunny situation, transplanted later in a sheltered yet succeeded place to spread their roofs and become sturdy, and bedded out in due course or potted off towards the end of May. They will stand watering rith weak manure as the flowers begin to show, and top dressing is serviceable. The true aster is the Michaelmas daisy, a very useful border perennial of quite another character,

**Aubretia.**—A good border plant, or rock trailer, with purple bloom and evergreen leaves. Perennial, inches in height, grows best in sanuty soil, flowers profusely in spring when massed in sunny spots, and a easily increased by division of the roots.

**Aubretia.**—A good border plant, or rock trailer, with purple bloom and evergreen leaves. Perennial, inches in height, grows best in sunny spots, and a easily increased by division of the roots.

**Aubretia.**—A place and show auriculas are distinct, the forner being very hardy, but both are auencable to culture by division in autumn or from seed sown in spring under glass in sandy soil. Grown in pots, which should be small, auriculas must be given plentiful drainage, and require a sprinkling of powdered charcoal or wood ashes in the compost. They do best shaded from strong smallgitt, and should be top-dressed with well-spent manure or rich leaf-soil in February, and in watering care should be taken not to wer the snauce from strong sunigra, and should be top-dressed with well-spent manure or rich led-fsoil in February, and in watering care should be taken not to wet the flower buds or leaves. The eye of the blossoms of the Alpines is yellow, with gradations of varied rich colour despening to the edge. The show sorts are either deepening to the edge. The show sorts are either selfs, green-edged, grey-edged, or white-edged, the more clearly defined the outer zone of the three last classes the better. The show varieties are particularly susceptible to damage by damp, and should not stand on the ground, but upon a bed of ashes if in a frame, on a shelf in the greenhouse. There are many splen-

or on shelf in the greenhouse. There are many splendid varieties.

Assless.—There are outdoor and greenhouse assless, both beautiful, the latter excessively so when in bloom. The hardier varieties of the garden do nicely in sheltered permanent situations whon grown in a compost of well-sanded peat and loam, soil which suits the pot sorts, also whether of the Indian or Chinese description, if charcoal be employed liberally over the crocks forming the drainage. Together these should occupy quite a third of the pot, and the charcoal may be advantageously steeped in liquid manure before being used. At midsummer the plants should be taken out of the greenhouse and placed in open frames or under sunny walls to make new growth, which must be well ripened by the autumn. Watering with weak manured liquid during development is requisite, and strong sunshine hardens and ripens the new wood. Before bringing the plants into the greenhouse or conservatory in October they should be neatly tied and trained, the budding shoots being turned outwards, and a good cleaning and top-dressing given to the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the pro make splendid parlour window plants when the blooming seriod arrives. To get equal flower furnishing, besides discriminate tying of the shoots to nucely arranged stakes, it is necessary to turn the plants round occasionally, thus obtaining equality of exposure to light. Efficient drainage and copious watering, when the azaleas are dry only, will ensure success. The reward of cultural care will be floral beauty of several weeks duration. Plants of very large size can be secured by occasional shifts to larger pots at the proper repotting period, specimens lasting for many years when treated as here directed. They like light

and au.

Balsam.—Decorative, half-hardy, prolific-blossoming annuals, very useful in conservatories or greenhouses or outdoors in summer, also for window show. houses or outdoors in summer, also lot window smooth from the rest advantage, and stimulation to rapid growth from the seed, bed onwards. Sow in early spring, in heat first, and in cool frames later, bringing on the young plants by ahifs to larger pots, plunged in tan or abre as requisite, watering with weak manure freely. For blooming seren or eight-inch pots are the best size, and for bedding out the plants should be carefully removed without the plants should be carefully removed without the plants should be carefully removed without the plants are the state of the plants are the state of the plants and wall the plants are the plants and wall the plants are plants. ating our the plants should be carefully removed without breating the ball, just releasing the root ends and well watering to prevent check. They need staking nicely when geasily broken, both as to stem and shoot, and protection against heavy wet should be arranged where possible for out-door blasm beds, as the diversified and beautiful blossom is very delicate. Colours range from pure white to with scarlet and rich gurple, with many spotted and splashed flowers, which contrast prettily with the light green of the follage and translucent stalks. The so-called "camellla-flowered" balams are of gorgeous presentment. Their procuration is only a matter of cost and selection as to seed; and they are well worth cultivation for indoor display. and they are well worth cultivation for indoor display

Bartonia aurea. — Favourite bright yellow annual, fifteen inches high.

annual, fitteen inches ligh.

Bear's Breach.—See Acanthus.

Bedding Plants.—The plants for summer flowering display in outdoor beds and borders, arranged in
masses or lines of colour contrast to produce effect, are
chlefy of a nature too delicate for development in the chiefly of a nature too delicate for development in the open, and have had consequently to be brought on under shelter, ready for placing in parterres when the last first risk is past. In our treacherous climate it is highly important that premature planting should not be adventured upon. Better a little last than over early. Sunny May days are deceptive, and sometimes receive a supplementation of killing night frost ompping wind. The great thing to do is to gradually accuston the subjects to the change. Take them out of the houses and frames, or having brought them from nursery or market, stand them in the open to harden before placing in the beds, giving protection against strong sun and excessive cold. Then have the borders well prepared, and the soil in good condition for the reception of the summer occupants, and your plan of arrangement well and wisely considered beforehand, letting example and experience be your guides. Watch the work of the gardeners in the parks, your pian of arrangement well and wisely considered beforehand, letting example and experience be your guides. Watch the work of the gardeners in the parks, and grain the benefit of their knowledge. Place each plant out carefully, selecting dull, warm days, when ram may be looked for, if possible, for the operation. Spread out the roots well, and without inflicting injury, press in very firmly the crown of the ball just below the present of the remover of the ball just below the present of the parks to the control of the ball pust below that the present of the parks to the present of the parks to the present of the parks to the present of the parks to the present of the parks to the present of the parks to the present of the parks to the present of the parks to the present of the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks to the parks t Watch the work of the gardeners in the parks.

wilting to the ground. Arrange for supports to sweet peas, tropecolums, and all climbing things you utilise. Give sticks to fuchsias and balsams that need it, and as ness, tropeolums, and all elimbing things you utilise. Give sitchs to fuchsias and balsame that need it, and as the need arises later, peg down petunias, verbenas, heliotrope and ivy-leaved geraniums, to permit of expansion and new shoot-breaking. Then watch and wait, and water when necessary only. Use the hoe freely to stir the surface soil, without disturbing the roots, and put in a stick here and tie genity there, and all will soon be in going order. If you drop in a pot rose or lilium to make a break, see that the wind does not injure them, and everywhere aim at emulating Nature, and leaving her "sample room and verge enough." You'll be all right then, with little trouble, till early autunnal frosts call you to clear the summer of bedding. The work of the summer of bedding. The work of the summer of bedding, greenhouse, and window decoration, as well as the metallic-looking, silver-belted, hairy-leaved sorts that furnish such distinctive ornamentation indoors are tuberous or fibrous-rooted plants of much attractive-

sorts that furnish such distinctive ornamentation indoors, are tuberous or fibrous-rooted plants of much attractiveness. The large-leaved sorts can be propagated from leaves laid on good silver-sanded soil over bottom heat, the ribs and veins being slightly incised undermeath with a sharp kinfe; but all kinds increase easily by root division, or can be raised from seed. There are many with a sharp knife; but all kinds increase easily by root division, or can be raised from seed. There are many varieties and hybrids, compact and branching, large and small flowered, in numerous shapes and shades. Indoors they like warmth, moisture and shades, outdoors they should be well mulched and kept damp at the roots. They require light, yet specially rich soil and careful staking in most cases, the branching growths being very fragile. In the growing period forcing is advisable, with airy surroundings at the flowering time. Good seed and dry tubers are obtainable of all the best sorts from the leading nurserymen, and young plants must be carefully shaded and potted on. They must be well watered in dry weather.

sorts from the leading nurseymen, and young plants must be carefully shaded and notted on. They must be well watered in dry weather.

Selladonna Lily. (See Ams ryllis.)

Bleanials and Ferennials.—Sweet Williams, Stocks, Canterbury Bells, Fox-gloves, French Honeysuckle, Honesty, and other indispensable garden flowers come under the first head. Most of them by early sowing may be made to flower the same year, and preserved after the biennial or fully mature period of flowering has finished by layering down branches or transferring base shoots. The carnations, saxifrages, and the like hardy garden favourites which preserve their leaves, and the multitudiatous herbaccous border plants that die down annually to re-appear the succeeding season come under the perennial cutegory, and all the chief sorts are noticed specifically in their order in this dictionary, and seeds and propugating instructions given in due course.

Borders.—Both for bedding plants and parma-

Borders.—Both for bedding plants and permanently placed herbaceous subjects of the perennial order, borders should be kept in good cultural coudition by forking, cleaning, maintring, and general overhalting in dio season, lest exhaustion of the solshould supervene. Heavy ground requires breaking, old stools systematically dividing; light soil needs enrichment. Bulbous plants are generally gross feeders and quickly impoversah a border, so do wall flowers and other strong growing things. Always use thoroughly decomposed manure, and fork in the dressing to mix evenly with the old mould. Let sun, rain, and sir have free play, and do not be afraid of deep digging when you are at it.

digging when you are at it.

Bouwardia.—Shrubby and serviceable greenhouse plants, with white, scarlet, and other coloured flowers, scenied, raised by spring striking of root and stem

Box.—This dwarf everyroen is chiefly in vogue for edging purposes, for which it is very handy, though it sometimes proves a harbour for slugs. The variety sempervices is the bost for finishing off borders, and semperview is the best to mining to bottlers, and should be planted in spring or zatumn, and kept in nest trim at all times. There are variegated kinds of Suxus, aurea and argentea among them, useful for ornamentation.

Boxes, Window. (See Window Garden.) Brian. (See Roses.) Brisa.—Ornamental grasses, useful for bouquet-

making, and in floral decorative work generally. The family includes the "trembling" or "quaking" grass, the "fadies" tresses," and others. All may be grown in sunny patches from seed sown in March.

the "ladies' tresses," and others. An may be grown in sunny patries from seed sown in March.

Brompton Escaks,—These are very valuable garden blennials, flowering well when flowers are scarce, and there is great variety of colour procurable, white, purple, violet, and many shades of red. They do nicely in good soil in pots, and can be put in cold frames over frost time, when they need protection; whilst those growing in open borders may be lifted carefully and replanted temporarily in sunny sheltes till springtime, and then replaced where they are wanted to bloom. (See Stocks.)

Bulbs.—There are bulbs and bulbs, and bulbs—so-called—which are not bulbs at all. The hyacinth tribe, growing coat over coat, furnishes one class of true bulb; the filies, scale over scale, another. Snow-drops and daffodis belong to the first group, and there are many illiaceous subjects. But crocuses and gladioli, and even more so the cyclamen, are only bulbs in external appearance. It is convenient to call the gladiolus root-crown a corm, but when further away from bulb-land's centre, we come to arms, asphodels, lilies of the valley, flame flowers, ranuncuit, anemones, itsees and pagneta—which some folk will insist on from bulb-land's centre, we come to arums, asphodels, lilies of the valley, fame flowers, rauniculi, amemones, irises, and pæonies—which some folk will insist on including in the category—we call a halt, and discriminate between tuber, root, and bulb. There is no need, however, to be too pedantic here, for each subject has its due paragraph. Most bulbs for garden growing should be deep planted, in good soil, to keep plem clear of frost influence, in well-drained borders free from tendency to waterlogging. They should be left alone after blooming until every leaf is quite dead, when they may be taken up and stored in the dry for the next blautine, or allowed to remain in the natural when they may be taken up and stored in the dry for the next plauting, or allowed to remain in the natural course, when, if injury in digging be avoided, sur-prisingly good results will follow. The remark applies specially to the lilacea, and such tuberous perennals as the iris and its allies. These mass splendidly, as do the gladioli, and improve by long residence in the ground. The culture of the bulbs, actual and so styled, is indicated elsewhere, both as to pot, glass,

and outdoor growth.

and outdoor growth.

Sadetus.—Cacti like little pots, and quite as much sand as loam and peat to form the staple of the compost they stand in. Deep drainage and plenty of charcoal is more than half the battle with these curious succulents, and lime rubbish or crushed brick and well culents, and lime rubbish or crushed brick and well rotted leaf soil should be mixed into the mould when potting, sil being dry when a start has been made. They require winter rest without much moisture, and should only be encouraged by gentle watering to make new roots in May; when a little later on any really essential re-potting should be very carefully undertaken. The cacti make capital window plants if the soil they are set in is well gruarded against becoming "sad," and the rat-tailed, creeping cereus is a rare good hanging basket subject. Properly speaking cacti are greenhouse perennials, and when their singular and brilliant blooming occurs they are most interesting. Shoots from the stem are easily rooted, if dried a little after breaking off, or seed may be grown.

most inferesting. Shoots from the steen are easily be grown.

Caladium.—A very beautiful, variegated-leaved, tuberous-rooted plant, nearly all the varieties of which debest in moist heat and require shade. Esculentum and violaceum, with one or two more sorts, however, will grow if properly placed in a warm greenhouse or conservatory, and are particularly decorative. Young plants should be procured from a nursery, and treated carefully, when good results may follow. Rich soi, with peat and silver sand in plenty, must be employed in potting.

Calosolaria.—Beilding or shrubby calceolariac, yellow or orange, are propagated from cultings made in September when the borders are cleared. These should be put into beds made in frames from which the frost can be excluded by a mat covering, and given little water till February, after rooting is ensured, though air should be given on damp days. As sprint approaches the lights may be taken of by day, and replaced by night when frost is feared, gradually lardening off and giving more water until the time for

pearse Cyclopaedia.

planting out, which is usually quite sare in mid-May, rot specimes may be brought on earlier by transplantation and removal to the greenhouse. The large-dowered herbaccous calecolaria is usually rules from seed sown in summer in pans or boxes filled with rich moist sand-covered soil under glass. The minute seed should be thinly scattered on the surface, and when the seedlings can be handled they must be pricked off separately, and gradually potted on as necessary, vatering and shading carefully arter each shift. Heat is not essential, in fact, it is undestrable, in successful calcoloria culture, but fresh air as far as is consistent with safety, good soil, and good drainage are; also vigilance in keeping down vermin. In greenhouses well-grown calcolorias of the show kind are grand objects when symmetrically stalked for bloom.

Calendula.—These orange or yellow Scotch, or not merigoids are particularly easy to grow, and yet most effective for filling gaps in exposed borders or strubbery belts. Once established they usually reproduce themselves profusely from self-sown seed.

Calliopsia. (See Coreopsia.)

Camellia.—This greenhouse favourite or Christmas time, with its beautiful waxy bloom and glossy leaves, is hardler than most amateurs imagine, and does well if kept clear of severe frost and intelligently handled. It does not ever need artificial heat except for forcing purposes, and early growth and maturity may be

is harms take most anateria mingine, and does well kept clear of severe frost and intelligently handled. It does not ever need artificial heat except for forcing purposes, and early growth and maturity may be induced by judicious culture. After flowering is over early in the year the plants should be potted, if hadly root-bound, and put in a cool place slightly sheltered, and when growth commences be moved right into the open, syringing often and keeping moist. Only when the flower buds are formed and the shoots well-ripemed should the plants be taken indoors to protect the blooms and beautify window or conservatory. They thrive in any really good soil, strong loam with sand and peat, and like an admixture of clean, rotten wood or rich leaf-mould. The camellia comes from China and Japan, and is a relative of the tea-plant. The red and white selfs are the best and most doriferous, but there are pretty striped and fringed sorts procurable. Shoots taken when just matured will root with care.

sorts procurable. Shoots taken when just matured will root with care.

Campanula.—Pyramidalis, especially in the white variety, is a beautiful perennial bell-dower, and will dourish in any one place for years, besides being easily divided; and fragilis, the trailer, forms a fine basket plant, either for indoor or outdoor display. The Canterbury bells, biennials, are favourites everywhere, and deservable to for they wirtually cultivate them. Canterbury bells, biennials, are favourites everywhere, and deservedly so, for they virtually cultivate themselves, and give bright bloom over a long period. All the species may be readly raised from seed, and the florists have brought about many mutations, both in doubles and singles, and really good strains are cheaply offered in small quantity in nearly every catalogue.

Ganary Greeper. (See Tropseolum.)

Gandytuit.—No garden should be without this prolife flowering annual, so useful for cutting and so pretty in the borders. It has been immensely improved by culture; and reliable mixed seed sown in autumn in rich, light soil, and transplanted in due course, will give

by culture; and reliable mixed seed sown in autumn in rich, light soil, and transplanted in due course, will give great satisfaction. The dwarfer vancties are most effective for bedding, the pure whites and deep purples particularly so. There are also blennial and perennial

candytufts.

Canna.—This tropical plant, commonly called

"Indian Shot." finds favour in many eyes because of its

"Indian Shot." finds favour in many eyes because of its

beautiful leaves and gorgeous bloom. It will succeed

either as a greenhouse subject or bedded out of doors

in a sheltered situation for the summer. Seed may be

sown in early March under glass, and will grow rapidly

fip previously soaked in hot water. When flowering is

lanshed out of doors, the roots may be stored for

another season in dry soil in pots or boxes. Canna

growing, once begun, will rarely be relinq@sthed by

amateur gardeners of taste. The canna is a gross

feeder. Although of Oriental origin it is an adaptable

plant.

Cantarbury Bell. (See Campanula.)
Carnation.—Carnation-culture is most fascinating,
whether growing from seed be adventured, pipling and
ayering be favoured, or all three be indulged in, and
fowers successfully produced by any of the practices

may be very beautiful. There are selfs of many colours and shades, clove-scented and odourless, fishes and striped varieties, large-bloomed and small, rall-growing and dwarfs, compact marguerites on show talks and quick flowing, each taking some care to cultivate, but all repaying the trouble, especially when experience has shown the way to avoid failure. Then there are the aristocrats of camationdou, the whater or marguerite away that lord it indoors when gardens are there are the ansocrats of carnationaon, the winter or perpetual sorts that lord it indoors when gardens are at their barest. The latter are propagated cluefly from cuttings, and grown along in alightly-heated, well-aired frames or houses to tall flower growth, with beautiful results at the year end, when the cutting striking commences de nove. The marguerites, youngest of the carnation clan, are handled as annuals, youngest of the carnation clan, are handled as annuals, from seed sown in gentle heat—a well-regulared hot-bed will serve—in February, transplanted under shelter, and finally put out in the blooming bed. From the best seed a good proportion of singles will come, often with the finest grass, but seen these are decorative, and the grower will get some pretty surprises in doubles and baby bizarres, so to speak, besides a few showy fakes, and perhaps a handsome yellow or two in a small bed. The more orthodox carnation offers wide scope for specialisation. You may grow the strong and velvety crimson old clove of antique gardens, which pleases the many still, or you may gro wide scope for specialisation. You may grow the strong and relivety crimson old clove of antique gardens, which pleases the namy still, or you may go in for yellows and yellow-ground, terra-cottas of size, all whites, or this or that class of colour marking; and then there are always the picotees to proceed further with. The method of culture of one will serve for the rest, and no two growers do exactly alike as to detail. Reliability as to true succession comes of cuttings, plpings, or layers struck and rooted in July, and later potted off or transplanted, but seeding from particularly choice blooms of your own production attracts a good many, because of its chances of getting a distinct novelty. April or May are good months for seed sowing, in pots or small boxes, covered by a pane of glass. Transplant the seedlings as soon as you can finger them into a bed of rich soil, at least nine inches part, and let them develop. A cold frame may be advantageously placed over the bed for protection during the first winter. The best soil to grow carnations in, either as pot plants The best soil to grow carnations in, either as pot plants or in beds, is one-third well-rotted cow-dung and two-thirds rich maiden loam from meliow decayed turves, or in beds, is obserted to be a considered to be the control of the control well-rotted cow-denged turves, free from insect life. Pipings are young shoots drawn from the joints and started to root in light sandy compost under a hand glasses, cuttings shoots which will not layer conveniently, and layers—the surest way of propagating of all—the behding down, underslitting, and ground-pegging into good soil of strong side-shoots from the flowering plants in summer late June to August. These are detached and potted off after rooting. Many pot them in pairs, and they should be well-drained, eight-and-shalf inch pots being a good size to employ. Careful stalking is requisite when the flower stalks are put forth. Keep away wire-worms from the roots and green by from the grass.

Catosta.—This is an old-fashioned singularity among haif-hardy annuals, the variety Cristata, common laid-bardy annuals, the variety Cristata, common called the Cockscomb, being a lavourite for its curious crimson flower crest. Some of the other Celosias have pretty feathery spikes of bloom, which will dy well for

canted the Cocascount, being a lavourier for its Cumbor crimson flower crest. Some of the other Calosias have pretty feathery spikes of bloom, which will dry well for vase furnishing. The seed comes up quickly from a March sowing over bottom heat, and the plants may be potted on for greenhouse bedecking or ultimate planting in borders, where they make a brave show. Cantaurae. (See Gorn Flowers.)

Cantaurae. (See Gorn Flowers.)

Cantaurae. (See Gorn Flowers.)

Cantaurae. (See Gorn Flowers.)

It is propagated by division in early summer, and should find a place in every garden.

Chammerops Excelses.—The fan palm, a good conservatory decorator, or tub plant for a summer terrace or lawn, doing well in fibrous loam. Only needs protection from severe frosts in winter, and reading raised from seed or off-set suckers. It will stand out doors all the winter in favourable localities.

Chamosal.—This is indispensable as a filterer of the soil in plant pote, to prevent the formation of dangerous

acids, and charcoal dust mixed with any kind of mould is always of excellent effect. Well saturated in liquid manner the lumps and notules of charcoal also act as a fine plant-feeding medium.

Christman Rose—The black Hellebore, a hardy perantalal, which bears white blossom in winter, and ores the shade. It will flourish in ordinary garden soil, and is propagated by division. Some pot it off for indoor decoration in December.

Chary sanathsanuum.—Chrysanthemum culture has mide remarkable headway during the last generation, and one can get flowers now as big as saucers almost, with petals fantastically curled and twisted, or close globular bloom of exceeding beauty and rich colouring. Of the choicer sorts there are incurved and refered, pompons, Japanese, anemones, and others. Then we have the earlier blooming varieties of the garden, nester the old type. The annual chrysanthemums also are very good for flower-cutting and decoration. These may be sown in April, on a sunny border, and afterwards transplanted or potted up. The early-flowering Japanese garden varieties can be propagated by cuttings or from seed, and grown by division. They need staking to withstand wind. The more ornate varieties call for a good deal of cultural care, but no coddling. Raised from cuttings or layers, they may be potted in April, shifted again in May, nipped back and hardened off, and finally transferred into good-sized blooming pots towards the end of June. They should be permitted to grow out of doors until October, and them moved to the groenhouse to flower, being well cleaned beforehand. No flagging must be permitted at any stage, and weak manure water must be frequently administered. The best soil is rich fibrous loam, with a little leaf-mould and decomposed tow-dung, and a plentiful sprigking of clean, sharp sand and powdered bone. For extra fine flowers the side shoots should be kept down as well, the tops pinched off, and the fewer stems in a pot the better. Let the stock come from a good source, rubbish takes as much trouble

source, rubbish takes as much trouble as the best. When the old plants are cut down, they may be divided, potted separately, and given a good rest before new growth is encouraged.

Clineraria.—These early flowering favourites of the conservatory can be started from seed sown in May in heat, the seedlings being potted off singly and placed in a cool frame until the autumn. Finally at the flowering size they may go into a warm greenhouse to develop the flowers, which should begin to appear in October, and bloom on to Christmas or after. A compost of leaf-inould and rich loam, well mixed with old stable manure and powdered charcoal, as well as coarse, clean sand all being left rather rough will suit. In the growing state Cinerarias will absorb well as coarse, clean sand all being left rather rough will suit. In the growing state Cinerarias will absorb strong liquid manure readily, being particularly hungry subjects. Shoots at all weakly should be eliminated to give vigorous growth play, and the green fly pest kept down by fumigating the frames as accessary. Many lovely sorts may now be had.

Clarkia. Pulchella.—Protty purple, rose, and white hardy annual, eighteen inches in height.

Clarastia.—These elegant trellis climbers, which luxurists on sunny walls or in well-vertilated houses.

white hardy annual, eighteen inches in height. Clennatia.—These elegant trellis climbers, which luxuriate on sunny walls or in well-ventilated houses, and make nice pot plants also, like a good strong soil. They will stand nournshment, freely administered, when grown indoors, and should have judicious root-dressing when established in the open. The Jackmanii varleties are rich and fine, and vigorous of growth, and there are other choice sorts with large blooms. Some care is requisite in propagating, mostly obtained by striking strong, short, ade shoots, in light sandy soil under a handlight. An easier way is by root division, after careful loosening up at the growing period. All the good clematies should be neath trained as they extend, and weak shoots cut away.

Climbers.—Climbers are essentials of the garden and greenhouse, and for wall covering everywhere. As regards outdoor climbers, the best rule is to grow what does best in a particular situation in any given meighbourhood. The Virginian Creeper will spread fast and flourish anywhere, and the small-leaved, self-chinging variety, Aungelopsis Veltchil, is always neat. It has inconspicuous flowers and loses its leaves autumnally, but their gorgeous colouring at the close

of the season may be taken as compensatory for deciduousness. The ivies, particularly the small-leaved and variegated sorts, make pretry and permanent clothing for a house wall, and te do them well a deep and rich soil is requisite. Some other favourite outdoor climbers are the Jasmines, both the swest-scented white, and the yellow flowering sorts, the latter blooming before leaining; the Clematises, which prefer a good loam and south aspect, the Lonicarsa or honeysuckles, which like shade and shelter, especially the yellow, reticulated Japanese kinds; the graceful Wistarias, with racemes of pale blue or white, that fourth in peaty mould, the Passion Flowers, that need protection in winter where exposed, and must have a light soil to make the best of; the evergreen Magnoliss, requiring a sunny, sheltered cutlook; the winter sweet (Chimonanthus), with firegrant orange flowers opening shout Christmas under favourable conditions; the Banksian and other small-blossomed, rambling roses, besides the tx-scented Glorie de Dijons and Souvenire de la Malmaison and their congrener; the vines, the tecomas, the bignonias, catkin-carrying Garrya elliptica, the graceful oral barberry, the accommodating frethorn, which will grow anywhere, the bluebush, (Cearothus), and the circious Dutchman's pipe, (Aristo-lochia). Here is enough to choose from, and there are others. Most of them will increase readily from alips, layer, or root cuttings, and the rest from division. They all need trimining and training at the proper season. The tentherer flowering subjects may be utilised as green deerer flowering subjects may be utilised as green deerer flowering subjects may be utilised as free run either in a pot or border rooting, roomy and well-drained.

Cockscomb.—(See Celosia.)
Colchicum.—(See Crocus.)
Colonia.—French nettles, some style these particu-Goleua.—French nettles, sonie style these particularly beautiful-leaved greenhouse plants, which luxuriate in moist lieat, and whose variegated and often gorgeous foliage make them great favourites for all decorative purposes. Young plants, carefully hardened, may be put out late into summer garden borders, but should have a sheltered site, for cold winds nip them up, and they die at the first frost bite. They propagate nicely from cuttings struck in bottom heat and brought on in close frames. Rich soil is their delight, and fearless pinching back induces a compact habit. habi

Collingia.—A genus of bright border annuals; bicolour, purple and white, 9 inches, very serviceable.

Columbina.—This is a very old cottage garden favourite, but the florists have improved it out of all

Golumbine.—This is a very old cottage garden flavourite, but the florists have improved it out of all knowledge latterly, and many long-spurred varieties of the always pretty herbaceous perennial obtainable from seed are extremely beautiful. They may be safely sown the April in any ordinary garden soil, and transplanted later on to nursery beds for ultimate removal to a permanent position. These hybrid columbines yield acceptable cut bloom.

Compost. (See Boll.)

Conservatory, The.—This is properly regarded as a display house for the reception of plants brought to the perfection of efforescence or foliage by culture, or an airy structure full of foral beauty. It is not, stictly speaking, so much a structure to grow as one to show plants in. Therefore, it should be spick and span and only of equable temperature; and it may advantageously open out direct from the dwelling, thouse, intervening between that and the greenhouse, vinery, or stove beyond, where such exist, and receiving its subjects in full dress from them or from frames and pits in the garden. The conservatory should always have plentiful provision for ventilation, and is best situated on the southern side of any house, with which it should harmonise, as much as possible, as to size and otherwise, communicating by means of a glazed passage or corridor when span-roofed. These who have but one glazed structure, and do virtually all their propagation and plant growing therein, will be well advised to call it and consider it a greenhouse, leaving the conservatory cognomen to the possessor of larger resucces. The shadier portions should have place for ferns, palms, and indoor ornamental everylace 

greens, or variegated foliage plants may occupy permanent positions of vantage in the Conservatory, the rest should be a constantly changing exhibition of the best foral things attainable by its owner, leaving space sufficient for social enjoyment, the chief reason for any conservatory's existence.

Convolvulum.—Annual; dwarf or minor, a foot high, various colours, major, the climbing sort, is useful for trellis-work or trailing, and also possesses a wartety of bloom.

useful for trellis-work or trailing, and also possesses a variety of bloom.

Coreopsis.—Called also Calliopis, a family of gay and useful border annuls reaching a foot or more high, bearing prolific blossom and chiefly a shade of yellow or yellow with red centre. Likes full sunlight, and grows readily from spring or autumu-sown seed, plants of the latter flowering, after moving, early and velocoretical.

plants of the latter flowering, after moving, early and vigorously.

Ours Flower.—The Centaureas are showy things, growable in any garden. The bright blue comflower is the favourite but the white comes in for cutting acceptably, and so does the rosy tinted. Then there is Depressa, an uncommon crimson-centred, dwarf-growing blue kind, obtainable from seed of most nursarymen. All can be raised by autumnal or spring sowing in the open, and the seedlings take kindly to transplantation. The sweet Sultans are Centaureas, and their foregrance and force heavier should see use and their foregrance and force heavier should see the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract and their fragrance and floral beauty should secure them admission to any home plot. Suaveolens is their specific name, and they should be thinly sown on a sunny border in July in light soil for transplanta-

ton next season.

These spring favourites may still be seen in many borders, and some of the hybridised and American sorts are pretty and issetil. Sow seed June for following season's flowering, transplanting in

strum.

Greaping Jenny.—See Money Wort.

Groous.—This early spring blossomer, though not strictly a bulb, is generally so regarded and treated accordingly. It is a perennial, and once planted will last, if undisturbed, for some years, but division betters to eccasionally, though no crocus should be taken out of the ground till its leaves are quite dead, when the roots may be stored away if space is needed for summer bedding. Mellow loam suits them, and they may be raised from seed sown thinly in sandy soil, the seedlings being pricked off later to develop. There are yellow, white, light blue and purple crocuses, also variously striped sorts, all quite hardy. When planted in early autumn in good light mould, two to four or six inches deep, they will make a brave show in spring, capecially if massed, and they do well in sunny window boxes as well as in beds and borders, and can be grown indoors in saucers of rain water, containing small pieces of charcoal. Colichcum autumnals, an autumn bloomer, as the name implies, should be planted in spring; its as the name implies, should be planted in spring; its foliage dies in summer and grows again after flowering. The Dutch and all other crocuses are readily procurable in the finest sorts at a small outlay, and yield attractive bloom for vears.

bloom for years.

Guphea Platycentra (Cigar Flower, — A pretty bedder, with almost black, scarlet, and white lowers, twelve inches high, grown from seeds or by

Gut Flowers. - Flowers of all kinds are best cut Quest F10Wers. -F10Wers of all kinds are Dest Cut for preservation or transit in the early morning before the sun has wilted them, while fern fronds may advan-tageously be gathered in the evening, and if placed for decoration purposes in vessels containing clean raise or distilled water and kept away from strong light or well below the level of artificial illuminants they will last longer than if carelessly dealt with. Renewal of ast longer than it carelessy utent with. America of the receptive water, with coincident cuttings of the stalks of choice blooms, tends to prolong their during the property of a light, strong box covering with soft paper, arranging the heaviest blooms at bottom and the more delicate sprays and foliage above, leaving all firm but lightly

sposed.

Gustings.—Generally speaking cuttings of all kinds CHESINGS.—Centrally speaking currings of all kinds should be taken in dry weather or from pot plants which have not recently been watered, short jointed vigorous shoots being selected when the subject is in good growing condition. A clean cut with a sharp billionant Or Gambanida, this must be made immediately below a joint on the detached shoot, all leaves, which would touch the ground, being removed. In planting, the soil in the box, pan, or bed, should be firmly pressed down and moist, and the cutting, save in exceptional cases, inserted only one-third its depth. Shade is essential, though light must never be excluded, and the plunging of pots containing cuttings is commendable. Silver sand and light sandy mould make the best cutting-etriking material, and there should be ample drainage, for free air percolation through the soil is a requisite of success. These general directions apply to all sorts of softwooded cuttings, of bedding plants particularly, and most of them will strike quicker if placed over slight bottom heat. In some cases very desirable, indeed dablia cuttings, for instance, will hardly do well without it. Myrtle, heat, camellia, and other hard-wooded subjects want little warmth below, but should be struck down to the drainage level in the striking pots. Side shoots from towards the bottom of the stem of a thriving plant, the shoots themselves ripe as to wood. thriving plant, the shoots themselves ripe as to wood, and yet not case-hardened, give the best results and yet not case hardened, give the best results. Failures should carefully be removed from cutting groups as soon as discovered, or they will injure the

groups as soon as discovered, or they will injure the rest.

Cyclamen.—Easily grown and graceful winter and early spring flowering plants for frame and house culture and conservatory decoration in winter. From seed sown very thinly in sandy, peaty loam, in pans kept at a temperature of between sixty and seventy degrees, and kept covered with glass or near the light in a greenhouse, the cyclamen can readily be raised. The seedings may in due course be potted singly, and kept clear of frost influence. For blooming on bulbous root—it is not a true bulb—should be allowed to a five or six inch pot, particularly well-drainedsand filled with a compost of loam and leaf-mould, with a liberal admixture of well-rotted manure and sharp sand. Do not more than half cover the root with the soil, and press down firmly. After blooming give the cyclamen a rest, plunged in a shady border, and when the pretty leaves begin to grow again, repot, shaking the roots partially clear of the old soil. Cyclamens revel in moisture but must never be stagnated. They want air without draughts, and an equable temperawant air without draughts, and an equable tempera-ture, plenty of light on winter days, and shelter from er sun.

summer sun.

Cytiaus.—Thi. pretty cool greenhouse and drysoil garden subject-often catalogued by the dealers as Genista—yields a profusion of bloom, chiefly yellow, in spring and summer. All the brooms which this class comprises are easy to cultivate if one will but bear in mind the hot soil of their natural habitat. They are deciduous, and the smaller-flowered kinds, with their graceful foliage and tmy pea-shaped blossoms, are very decorative when in their full beauty, looking particularly well in a parlour wndow. The Laburnum, whose golden tassels are familiar to town-dwellers in the early summer, is an arboreal Cytisus.

Daffodil.—(See Marcissus.)

Daffodil.—(See Marcissus.)

Daffodil.—See for situation to flourish in above ground, and rich gross feeding below. For each plant, when frost fear is over, a big enough hole should be dug in the open, the soil being taken out to a good depth and replaced with enriched rough mould to let

dug in the open, the soil being taken out to a good depth and replaced with enriched rough mould to let the roots run in. It is well to put in a stout stake at the time of planting, and to protect the young dahlas from the slugs until it has grown out of harm's way. Leave a couple of yards at least between every two show or double dahlas if you desire fine blooms, and give copious manural waterings as they grow. Trap earwigs with hay in small inverted pots at the top of earwigs with hay in small inverted pots at the top of the stakes when the flowers come, or they will lodge in and devour the petals. Cut away lateral growth, leaving but few branches and those the strongest. Relatively these instructions apply to the fancies and the pompons as well as to the big double show sorts also to the singles and the cactus kinds, all of which now include many beautiful varieties. When frost blackens the dabilas in early October, cut them down, and lift the tubers, putting the old seits away dry in a shed in boxes of sand or fibre, or ashes will do. As spring comes on shoots should be encouraged by re-

moving the roots to a greenhouse or warm frame, and these be taken off to start growth in small pots ready for planting out in June, labelling each correctly. Cuttings may also be made from the plants in autumn. and kept over the winter under shelter after striking, except in special circumstances.

Daley,—Double daisies, white and red, quilled, or the hea-and-chickens variety, make nice border plants, and are serviceable for edging purposes. In good loams they will give a fine and long-lasting flower display, and may be raised from seed, though a certain amount of singles are sure to come. Propagation by division is sure, if done when flowering is over.

Dalphinium.—To this genus belong numerous beautiful border annuals and biennials, as well as perennials, varying in height and colour. They are line for grouping or for planting singly, or delphiniums with spikes of pearly white and a particularly wiid orange-scarlet sort of dwarf habit. The annuals are sown in the open in March where they are to flower, the blennials and perennials in June and July, and transplanted when large enough to nursery beds or put where they are required to remain.

Bautzia.—A class of hardy flowering shrubs. bear-

planted when large enough to nursery beds or put where they are required to remain.

Deutzia.—A class of hardy flowering shrubs, bearing beautiful white bloom, like thin-substanced snowdrops. Increased by cuttings, struck under glass in August, and liking a mixture of rotted cow-manure and loam to grow in. For forcing and pot culture generally the deutzias are well adapted, being very decorative when in flower. Deutzia gracilis, a compact, free-flowering dwarf variety, is a capital plant for window or

conservator

Dianthus. (See Pink, also Sweat William.)
Dialytra.—Dielytra spectabilis, sometimes called
the "lyre flower," is a pretty and popular herbaceous
border subject, bearing handsome bending branches
of peculiar pink bloom, and having very attractive
foliage. There is a white-flowered variety, less common, but easy to grow in light, rich soil. Both may be
brought on for early show in pots in the conservatory,
and readily increased by division. It is advisable to
contact from severe frost, and they will take up a lot of Dianthus. (See Pink, also Sweet William.)

and readily increased by division. It is advisable to protect from severe frost, and they will take up a lot of water when conling into bloom.

Digitalia. (See Foxgiova.)

Dusty Miller. (See Auricula.)

Dutohman's Pipe. (See Auricula.)

Boreamocarpus.—Half-hardy flowering climber, bearing racemes of orange bloom, will stand in a sunny spot out of doors in winter, if cut down after flowering and covered with litter till spring. It will ramble over stumps or trellises prettily. May be raised from seed in a hotbed in autumn, young plants being thus obtained for spring culture in the open, or for pot use in a greenhouse.

bloamer to spin content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the conte

which root with facility.

Egg. Plant.— A curious half-hardy annual, botanically styled Solanum, delighting in warmth and light
rich soil. Seed should be sown in early April in pots
plunged in a hotbed, the young plants being potted
and placed near the glass as soon as they can be
handled. When wanted to fruit in the conservatory or parlour, they should be transferred to good-sized pots.

They will do well in frames if kept free from redspider by syringing; a little stimulation when the fruit is setting is helpful.

Brice. (See Heaths.)

Brodium.—Hardy rockery and edging perennial, dwarf and fond of dry warm situations; carries purple-spotted white bloom, propagated by root-partition, also from seed.

Erysimum.—Hardy annual, the orange-flowered Perofskianum, twelve inches, makes a pleasing border

Eschscholtzia.—Californian annuals now largely employed in furnishing our summer flower-borders. They are very hardy and may be sown thinly where they are to bloom in April. The yellow coloured

varieties are the most common, but there are orange-flowered, rose, carmine, and white Eschedholizass, obtainable of good seedsmen; also a perennial variety, Californica, with big, beautiful, deep orange-centred bloom. Some of the sorts_close their flowers tightly at the approach of rain. They belong to the poppy

class.

Bupatorium.—This is a genus of flowering herbaceous or shrubby plant introduced from America, chiefy used for greenhouse culture and closely related to the hemp agrimony of our British marshes. Some send up stalks of white tassel-like bloom from the low leaf growth. They may be propagated by cuttings covered with a bell glass, and grow best in sandy peat and loam. There are purple and pink kinds to be had, and the vivid green of the foliage is very attractive. They may be moved out-of-doors in the shade in summer. shade in summer

Eutoca (Phacelia) Viscida.—White-eyed border annual, one foot.

border amma', one foot.

Buonymus.—A common yet popular garden shrub, amenable to urban surroundings. Most glossy green. There are some variegated sorts, but all are ornamental, hardy, and easily increased by cuttings struck in good loam in the autumn from the preceding year's shoots. E. europaeus is the Spindle tree.

Evening Primrese.—This well-known flower is one of the Genotheras, which include a number of useful edging, border, and rocky plants, some of them annuals, others biennials, and some of perennial growth. The Evening Primrose is a biennial, but, it sown early, will bloom the same senson. Its bright soll of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the principle of the pri

Rhodanthe.)
Ferns.—Any garden or greenhouse without ferns is quite incomplete, and nothing grows more easily froperly placed and treated. They require shade, all of them; and most preier moisture as well. A good general soil to plant them in is a mxture of fibrous loam (mellow and fresh), clean sharp sand, and good leaf soil. In pots they should be well-drained, with porous sandstone in lumps above the sherds and mixed with the soil. Peat is helpful as a further ingredient of the compost for the tenderer ferns. All should be very firmly secured in pot or ground on introduction. For outdoor growth in shady corners under walls, or in parts of rockernes where the sun's direct rays never reach, nearly all the British ferns, of which there are multitudinous forms, can be successfully cultivated; reach, hearly all the British ferns, of which there are multitudinous forms, can be successfully cultivated; while under the stages or other positions in the shade within a cool greenlouse many exotics will grow luxuriantly. There the maidenhair and other adiantms are invaluable for decoration, and addition to flower bouquets, as are the pterises, aspleniums, and tygodiums. Of larger growth are the anthyriums and the osmundas, while the polypodiums, polystichums, scolopendriums, and have-foot ferns can all be tackled successfully. Filmy ferns like the todea, trichomanes, and hymenophyllum may be grown under beliglasses to conserve moisture. Ferns should be made the most of by every amateur. of by every amateur.

Ficus Elasticus. (See India Rubber Plant.)
Flax Plant.—(See Linum.)
Flos Adonis.—Hardy annual, deep red, nine

inches.

Flowering Current.—(See Ribes.)

Flowers.—(See Cut Flowers.)

Flowers.—(See Cut Flowers.)

Forget.Me.Not. The Myosotises are annuals, biennals, or perennials, but it answers well to grow them from seed as border plants, for the dainty blue blossoms are everywhere welcome. There are pink and white varieties, too, which will repay sowing in June for the following season's flowering. It is an accommodating plant, but always appears thankful for water, and the shadlest part of the garden suits it better than full exposure to summer sun. A good strain of seed should be secured to begin with, and increase by division relied on later.

Fox Glove.—Handsome cultivated varieties of the Digitalis of our woodlands are easily raised from seed or propagated by off-shoots. They do admirably on

shrubbery borders in any ordinary soil, and there is a particularly fine white sort to be had at most nurseries, as also red, purple, yellow, and spotted varieties. A packet of good seed will produce pleasing results where there is space to exploit the foxglove properly. It should be remembered that the Digitalis possesses

poisonous properties.

Frames and Pits.—These are of immense value in any garden, both to the possessor of greenhouses, conservatories or forcing houses of an ambitious character, and to the more modest horticulturist who relies entirely upon them and the hotbeds they may contain to carry his delicate stock through the winter. They to carry his delicate stock through the winter. They are saily and cheaply constructed if one be content with things on a small scale. A glazed light or two will cost little, and any gardener can make his own frame out of rough wood, and to his own liking, movable or for placing permanently over a pit excavated in the ground. The principle to be insisted on is that they should be highest at the back, sloping towards the front, and that they should be fitted so to receive the top light when in position that rain is excluded. The frame may stand on low brick walls or stacked turnes or rest on the ground as conwalls or stacked turves, or rest on the ground as con-sidered most desirable. The earth may be excavated sidered most desirable. The earth may be excavated pit-form to secure depth according to requirement; and the interior may be wholly or partially filled with properly prepared stable manure to form a hotbed on which soil is superimposed, and thus may be renewed or removed when spent. Rows of frames can be accorded to the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the stable of the s be arranged for more extensive operations by length-

surprising amount of success at but little monetary outlay.

Gardenia.—A charming greenhouse evergreen, bearing beautiful wary bloom, very odoriferous, and much in favour for button-hole wear. Will do best with much moist heat and profuse watering in the growing period and whilst flower forming. Sandy, peaty soil, very rich, is requisite, and a bottom heat of at least 70 degrees must be maintained to root heeled slips in well drained pots of silver sand and peat. Cardenia florida, the "Cape Jessamine," is a good sort for the amateur to grow.

Genista.—(See Cytisus.)

Geranium (Pelargonium).—The geranium, of all half-hardy subjects, is best styled everybody's flower. It possesses infinite variety as to foliage and blossom, and no sort is difficult to deal with. The zonales, so universally employed in window decoration, boxes, vases, greenhouses, conservatories, and as bedders, possess handsomely formed leaves, and bear beautiful bloom trusses, single and double, in colour from pure white to vivid scarlet, with rich salmons, delicate cerises, and many gradations of pink. These may all be legit sturdy and shrubby by toping, or trained to grow tall at will. There are gold-leaved and silver-leaved sorts, bronze and gold varieties, silver tricolours and yellow tricolours in charming diversity, lovely as to foliage alone, and all fioriferous. Then there are the secured sorts, with beautifully divided leaves, the tricolour of the produced by hybridisation the garanium remains an easily grown favourite. Propagation is best by cuttings, talk a wourte, or patted on at will towards the following bedding-out time, or as a further alternative converted by encouragement into specimens of size. The old plants after cutting down and potting out to best for this, being first given a good rest. The soil employed should be light and easily all drained and firmly pressed down for pot culture. For flowering well use small pots. The many beautiful varieties of show and fancy pelargoniums which are distinct from the sonale geranium,

are useful for conservatory and greenhouse treatment being hardler than their more generally cultivated relatives. Regal polargoniums these are often called, and there are the French spotted and large and small varieties, as well as the more elaborate doubles. They are increased by cuttings, best potted slagly in a dry light sandy loam after taking from the parent plant when the flowering season ends, and plunged in mild bottom heat to facilitate rooting. Then pot on gradually pinching as root growth is encouraged and hardening by exposure to air as development goes on. When flower buds begin to show, the plants, then in their blooming pots, may go into cold frames or greenhouse, the former preferably, and be kept well syringed to stave off insect attacks.

Geannera.—Tuberous, hothouse, herbaccous, flowering plants, requiring rich soil, plenty of moisture, and a warm even temperature for successful culture. May be raised from January sown seed, by cuttings of shoots or leaves, or by tuber division. Compost of peat, fibrous yellow loam, and sand, in well-drained four to six inch pots will be needful for securing good blooming plants. The scarlet sorts are very showy when in bloom, and great care is essential to keep them clear of thing.

bloom, and great care is essential to keep them clear of thrip.

Gladiolus,—This is a grand subject for autumnal display in massed beds, and may be raised from seed as well as from the tiny-looking bulbons off-sets of the old corms. There are numerous sorts of the "sword-lily," as this gorgeous plant is popularly styled, the early flowering and forceable Colvillei funishing one fine type, and the Gandavensis and Branchleyensis, besides hybrids, other sections. The latter is the more comunon, and bears brilliant spikes of various colours in profusion. The corms may be planted out in good garden soil, rather light than strong, in March, cleaning the old roots and mould away, and inserting each firmly in a surrounding of sand or dry ashes. They delight in a surnoy stutation profected from strong winds, and a dressing of well rotted manure over all after planting will be serviceable. The Bride and other early blooming varieties may be brought on by pot culture in pits for house and conservatory flowering. It is advisable to take up the corms from bed or border in late autumn when the leaves are dead, storing them in soil for next season's planting.

when the leaves are dead, storing them in some measures season's planting.

Gloxinia.—Gloxinias are generally regarded as stove or hothouse subjects, but may be cultivated successfully in frames where an equable hotbed is maintained, or in any warm greenhouse. They are exquisitely beautiful, and repay the trouble necessary to obtain the best result. Seed may be sown in fine sail in Eabnary the nots being plunged over a bottom exquisitely beaturin, and rejay the tunche lectess; to obtain the best result. Seed may be sown in fine soil in February, the pois being plunged over a bottom heat of about soventy degrees, which should be tended to be covering with given being the sound between the property of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of the sound of

obtained from the start from a reputable source, the best being the cheapest in the end.

Godesla.—The purple flowering form of the popular Evening Primrose, or Clienothera, treated as a distinct species by many florists. An effective border annual, about a foot high, and quite hardy enough to be sowr in the open in April for transplantation.

Grass Lawins and Borders.—Grass plot should be properly nade, to begin with, and thereafter kept in trim by constant care. Get the ground, after digging, firm and even, and have it well cleared from any weed roots. Let it be slightly high in the castre, sloping regularly to the edge limit all ways. Then lay down turves, well mown, from old fine grass pastures, free of dock and dalsies, in early spring. The turves should be clean cut, about one inch thick, a foot wide, and in 18 inch lengths. Get the strips close together,

and beat them down thoroughly. You cannot roll a newly laid lawn of turves too much, providing you keep it damp. Mow with a scythe as new growth commences, then roll again and again. Once the turves have attached themselves, you may use the lawn mower instead of the scythe, but watering and rolling are of the utmost importance. Get the grass established before midsummer sun can burn it. Nightly hosing will obviate this. If you cannot utilise turves, buy the best prepared lawn seed mixture of a regular seedsman, and sow it in March or April when there is owind on the nicely-levelled surface, lightly covering it with sifted soil. Late August or September will do for the sowing, but early spring is better. A quarter of a pound of seed will suffice for two square yards, and it must be distributed evenly. Water nicely with a hose or can, after the seeding, unless steady rain immediately falls, and stretch black thread crosswise to pegs a few inches over the surface to impede sparrows foraging for seed or tender blades of grass. Also keep off children, cats, and dogs. Gently and frequently water and wait. Then when the grass is four inches high shave with a sharp scythe, treading warfly, and sweeping tenderly with a soft broom. Water again, always in the evening, mow and sweep once more. Next time you may put a light lawn mower over it, and leave the cut grass lying as it falls, sweeping before the following mowing. It will form a protective mulch against hot sunshine. Rolling on new-sown grass must be commenced with caution, and seed should be scattered carefully and given attention where bareness is threatened. You cannot take too much trouble in getting the right start. Anything coming up coarse should be lelinianted, and any hole made in so doing firmly filled, introducing a little seed at the time, until all looks, after mowing, like a bullard board. Thereafter keep it so by regularly cutting, sweeping, and rolling in spring, summer and autumn, and occasional attention as requisite in winter. Grass when that is

when that is most convenient; narrow strips of grass form the best and prettlest of all borders if kept closs shaven and evenly green, but they must not be walked on like the pathways. Grass, in its place in the garden, may always be kept beautiful, and care to conserve it so carries a rich recompense of soid satisfaction. Green Fly. (See Peats of the Garden.)
Green Fly. (See Peats of the Garden.)
Greenbouse, The.—"Who loves a graden loves a greenhouse too," sang Cowper in "The Task," and with the spread of garden love amongst us, there has certainly been a great growth of greenhouses, humble and spacious. Artificially-heated structures are requisite where half-hardy and tender plant culture is carried on to any considerable extent. They can be produced in sections, and are adapted for putting up in the most favourable available position, in szes and at prices to suit almost every purse, as tenants fatures, so that any artisan or clerk can now-t-days have his own greenhouse, according to his circumstances or desires. Greenhouses may be either span-roof, independent of any other structure, or lean-to, the backeing furnished in the latter case by a boundary wall or that of the dwelling house. They may be simply glazed and rendered water tight (with proper provision for vontilation) or they may be fitted with the sing apparatus of a more or less elaborate character. The cool greenhouse, which excludes winter rigour from its occupants, will be found very serviceable to those of modest foricultural ambitions, especially if it be placed facing southwards. That to which provision for heating is added will answer with any aspect, but this and the means employed for keeping the temporature artificially raised must be regarded as considerations of individual convenience. Supplemented by a frame or two, a greenhouse openment of Anadovering and otherwise ormannatel plantway from it hall beauty or remain to deck the stage on which they have a stage of the propagation and preservation of subjects which will not winter safely

fast and comparatively narrow stage at the glass frost returned at the ends, with additional and movable shelving near the roof on suspended brackress, alse above the table-high side stage. Plenty of room should be left to get easily at every plant, and plenty of room under the staging for the reception of subjects for which a shady position is desirable, while provision for which a shady position is desirable, while provision for necessary ventilation is of the highest importance. Where there are flues or pipes for heating, kept warm by a properly placed fire outside, slated shelves may be fixed above for the accommodation of plants and young stuff needing bottom heat. Draughts must be most studiously avoided, and cleanliness strictly observed. Good, well-fitted joints in the woodwork, and neat glazing, preventing the ingress of rain, are observed. Good, well-fitted joints in the woodwork, and neat glazing, preventing the lingress of rain, are essential. The management of a greenhouse is really a matter of practice and intelligent pursuit of well-weighed and attainable ends. To have bloom all the year round in a greenhouse there must be of course systematic selection of subjects. A few Azaleas to come on in May, large flowering pelargoniums to follow, then fuchtias and choice geraniums, variegated as well as green-leaved will supply the late spring and summer staple. Heaths, Chrysanthemums, Primulas, and a Camellia or two may make the main of a backend and winter show. Cinerarias, Lillums, Calceolarias, Cyclamens, the Deutzia, Eyerlastings, a few fine end and winter show. Cinerarias, Lillums, Calceolarias, Cyclamens, the Deutzia, Everlastings, a few fine hyacinths, a myrtle liere and there, and some trainable blooming plants, like the Lapageria, Plumbago, Abutilon, and others, according to taste, may be taken up with, and if these be properly treated there will always be a gay greenhouse. For the rest, a following of the brief entries in this dictionary will be found to convey much that is suggestive and helpful to greenhouse beginner.

will always be a gay greenhouse. For the rest, a following of the brief entries in this dictionary will be found to convey much that is suggestive and helpful to greenhouse beginners.

Gueldar Rose—A heautiful flowering shrub, with snowball-like bloom, propagated by suckers or by layers pegged down in spring, Prefers a sunny and open situation, and will grow in any good soit. The planters snowball free (Viburnum plicatum) is a particularly handsome variety of the confounded with seedsman early in August for immediate planting, and will grow and flower quickly in cocoa-nut fibre or rain seedsman early in August for immediate planting, and will grow and flower quickly in cocoa-nut fibre or rain start as well as if given good soil.

Hardy Annuals, Blennials, and Perennials. (See Annuals, Blennials, and Perennials.)

Geannuals, Blennials, and Perennials. (See Annuals, Blennials, and Perennials.

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Hardy Annuals, Blennials, and Perennials. (See Annuals, Blennials, and Perennials, and Blentials, and Perennials, and Peren

Helianthus. (See Sunflower.)
Helichrysum.—Half-hardy annual, usually called
the Everlasting Flower, various colours, one and a half
feet high. Seed should be sown in March in gentle
heat, the seedlings being later transplanted in sheltered
borders. The flowers should be cut when young for rvation.

preservation.

Hellotropa.—The "Cherry Pie" is the fanctfur popular name of this well-known and fragrant bedder and pot-plant. It can be grown from seed sown in gentile heat in February or a little later, and transplanted in light rich soil, or from cuttlings taken in September and cultivated in cold frames like calceolarias in the winter. It is a capital pendent plant for mamental baskets, window-bores, or vases; or it can be trained for greenhouse or conservatory blooming by staking and tying. In the borders it should be perged down and allowed room to run and spread. Before hedding out the heliotrope needs hardening, as frost is fatal to it. Some greatly improved varieties have recently been introduced into cultivating, and seed these can be obtained from all the leading nurserymen at a moderate price.

these can be obtained from all the leading nurserymen at a moderate price.

Hellebore. (See Christmas Rose.)

Herbacous Plants.—This comprehensive term includes all low-growing vegetation, even when the plants throw up lengthy flower-stalks in their due season, but as a garden denomination it is usually associated with the flowering subjects, chiefly perennial, which find a place in permanent borders. Such a border intended for the accommodation of amemones, primroses, arabis, aubriettas, bulbs of many sorts, forget-me-nots, panises, columbines, rises, doronicums, foxgloves, pæonies, pinies, pyrethrums, phloxes, gladioli, monthretias, marguerites, and many other beautiful blooming plants, should have careful and thorough preparation and after-tillage. It should be composed of good and nutrituve soil, well-drained below, and be regularly and deeply manured. Preferably it should be wide, open, and sloping to south or west, with a wall or shrubbery behind. Discretion should be displayed in the planting, so that the dwarfed subjects are to the fore, due regard being given to the flowering period of each. Superabundant growth must

subjects are to the fore, due regard being given to the flowering period of each. Superabundant growth must be checked by division at the proper time, and watering during drought not neglected.

Hibisous Binensis.—The "Chinese Rose," as this species is generally called, is a showy flowering shrub, which likes a light, sandy soil, and may be propagated by cuttings or by seed sowing. It will run up to ten or twelve feet high when once established.

run up to ren or tweive teet nign when once established.

Hippeastrum.—A genus of bulbous plants, including the Jacobea and Barbadoes lihes, besides
many pretty hybrids. Requires pot culture, in lieavy
wich loam, which should be treated with bone dust and
pounded charcoal, and given free drainage. Propagated
by offsets. Closely related to the amaryllis, with which
it is sometimes confounded.

by offsets. Closely related to the amarylis, with which it is sometimes confounded.

Holly.—The variegated and common green hollies are very decorative, and grow readily, wherever there is room in strong or ordinary soil, not being injured by the smoke of towns. Once planted they are capable of looking after themselves, save in the matter of pruning, which should be done judiciously and to the encouragement of vigorous and symmetrical growth. Rows of omamental holly make good screens in gardens for the protection of the tenderer subjects from northerly and easterly winds. Flanting is best done early in May.

Hollyhook.—Hollyhocks propagate from short-jointed young shoots easily, but raising from seed in preferable, as the seedlings resist disease, to which this genus is very liable. Well selected seed can be placed in drills on a carefully prepared bed in April, so as to come up about an inch apart, covering with fine soil. Weed and water, and transplant without disturbing the roots when vigorous growth has begun, allowing ample space for development, and keeping off slugs and other injurious pests. In the second season stake, destroying all undesirables when the flowers have shown, preserving only the choicest specimens, which stown, preserving only the choicest specimens, which cut down to about three inches high after flowering, and protect during the winter with litter after loosen-ing the surrounding soil with a fork. The following year will furnish the finest bloom, from which seed

may be saved, and culture begun de nove. By watering with strong liquid manure during the growing period in dry weather, and pinching off laterals, very large flowers can be obtained from the carefully selected double sorts, and there are many of beautiful shades of colour, white, yellow, rose, red, and salmon.

Koneysuckile.—All the Loniceras will strike readily from layered branches and cuttings taken during the growing period, or root divisions may be made. They are invaluable as trailers and wall and trellis climbers, and some are good greenhouse ramblers, Sempervirens particularly so. Japonica, the small-leaved, variegated variety, is deservedly a favourite, and should be given a sunny position in the garden, and neatly trained or permitted to run over banks or stumps. banks or stumps.

parden, and neatly trained or permitted to run over banks or stumps.

Honesty. (See Lunsaria.)

Hothouse. (See Frames.)

Hothouse. (See Btovs.)

Hyacintha.—Anyone can grow these beautiful blooming bulbs, but not everyone is able to cultivate them to perfection. In the open garden the necessary procedure is simple. The soil should be well dug and manured, and the bulbs planted in October three inches deep and well surrounded with sand. When frost comes strew the leeds with clean straw, easily removable in mild weather, and leave the rest to Nature. For pot culture, plant cach bulb in a four-inch flower pot, or two or three if desired in correspondingly large pots, well drained and filled with a compost of fibrous loam, leaf soil, well rotted cow dung and silver sand, promoting root growth by covering the whole of the pot and bulbs six inches deep in ashes or coccanit fibre until growth is well advanced, when gradually inure to light and take to a warm greenhouse or room to flower. Let the compost be rather rough and drain the pots thoroughly. The process may commence in September or October, and early bloom can be procured by careful forcing, alming always at getting the pots full of root before upward growth is encouraged by light and air. Hyacinths may be cultivated in sand by dipping the vase or other receptacle containing the medium and the bulb in tepid rain water, or cocanut refuse well mixed with charcoal well broken and powdered, is even better. They also grow nicely in clina or other the bulb in tepid rain water, or cocanut refuse well mixed with charcoal well broken and powdered, is even better. They also grow nicely in cluna or other bowls filled with damp moss. The bulbs do well in glasses made for their growth if kept in a dark but not draughty or damp cupboard until the distilled or rain water beneath them, which should contain charcoal to keep it pure as long as possible, is well filled with roots. Then bring out into light and sun and keep clear of dust as the leaves and flowers and stem shoot up. Ripe sound bulbs should be selected, rather than loose large ones. The Roman and Italian Hyacinths flower the carliest.

Hydrangea.—A decorative half-hardy should

flower the carhest.

Hydrangles... A decorative half-hardy shrub from China, bearing very large tresses of pearly bloom, white to blue. Requires strong loam enriched, and plenty of water, weak son-suds suiting it well. If left out in the winter it should be protected against frost Partition of large clumps, or cuttings of half-ripe young shoots, after flowering, are kne methods of increase. Hydrangeas make good tub plants for terraces or large conservatories, and will live for many years with a little care, cutting back after blooming, and top-dressing from time to time. They start well in a cool green-house, and like a little liquid manure or other fertiliser to help them along when the buds beer in to appear.

or other fertiliser to help them along when the buds begin to appear.

Toeland Popplea. (See Poppy.)

Toe Plants.—This uncommon and uttractive trailer, to which the florists give the lengthy name of Messembryanthemun crystallinum, make. a good rock plant or hanging basket subject. It will flourish with a little trouble in the beginning, in any good soil, in a sunny situation. Sow seed in gentle heat in April, transplant to small pots and re-start growth, then turn out to harden, and finally set where wanted to remain, keeping down surrounding weeds. Some grow the collection of the plant for garnishing.

Impatiens.—A rather tender but handsome border plant, of the balsam tribe and curious because the seed vessel opens at a touch. Will easily propagate

itself by seeds when once the latter have been sown in the open. Impatiens Sultani, bright scarlet flowered, requires retaining in the greenhouse to bloom.

Indian Shot. (See Ganna.)

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proportions. Cuttings or single-eyed shoots may be struck in sandy peat.

Indoor Decorative Plants.—The plant lover who does not possess a conservatory will often like to decorate his pariour or other dwelling-rooms with the who does not possess a conservatory win often her to decorate his pariour or other dwelling-rooms with the choicest procurable plants, preferably of his own growing, and there are many subjects which lend themselves to this kind of display. In the spring, the hyacinth is available, and cherarias, pelagronums, calcolarias, begonias, and fuschias, among beautiful flowering plants, will keep up an indoor flower thow over a lengthy period, while azaleas, primulas, and cyclamens, can be employed to brighten up the home. India rubber plants, small dracensas, aspidistras, and numerous other foliage plants of moderate size may also be maintained in health at a minimum expenditure of trouble, as can many beautiful ferns, if kept out of direct sunlight and moist at the roots without stagnation. To this end, there must be systematic and sensible watering, just when each plant wants it, and adraution, as distinct from exposure to chills and draughts; also care to keep every growing thing below the level of gas jets. Plants for dinner-table decoration should be fresh and frequently renewed, brought in from the greenhouse or frame in their full beauty.

the level of gas jets. Frants for diminerable fleetons thould be fresh and frequently renewed, brought in from the greenhouse or frame in their full beauty, and replaced when not in use or past their best, the pots in which they are growing being inserted into the larger ornamental vessels at command for the time being, and the surface soil covered neatly with damp moss. There is scope here for the twice lost of great taste, and much can be accomplished with comparatively limited resources and intelligent attention.

Ipomosa Purpurea.—The "Morning Glory" of American verandas, a very useful climber, which goes prettily with the light leaves and yellow blosson of the canary creeper, when the two are permitted to intertwine on trelliess. This Ipomosa has convolvulus-like flowers of various colours—purple pink, crimson, white, and bline, and large heart-shaped leaves, and will ramble to a height of ten fect or so. It likes a like soil, and being half-hardy, should be raised from seed over a gentle hotbed in March, and planted out in May.

May,

IFIS.—Long-running, tuberous- or bulbous-rooted,
hardy herbaceous plants bearing flowers of rich and
varied beauty, some of them vying with the Cattleyas,
Lælias, and other exotic Orchidaceæ in grandeur, and
most are of peculiarly easy cultivation. White,
yellow, purple, brown, with nuch variety of delicate
vehing, and blotching in some cases, the Irises are
universal favourites. The three upper and inner petals
of the flowers are erect, the lower three drooping and
generally refiezed. The German section is the more
common and includes the yellow Iris or water-flag and
the larver flowered ourole and tilsic, vellow-bearded the larger flowered purple and tilac, yellow-bearded Germanica, which does so well in town gardens, and puts up stems to 2 feet high. The Spanush and English sorts are smaller, comprise greater diversity of colouration and pencilling, and are bulbous-rooted. Irises are best planted in clumps for effect, and fourish in light, rich, garden soil, making admirable subjects for a shrubbery border. Propagation by division of the roots is accomplished with facility after flowering, and rather stronger soil and a shadier flowering, and rather stronger soil and a shadier flowering. The stronger soil and a shadier flowering, and rather stronger soil and a shadier flowering. The stronger soil and a shadier flowering, and rather stronger soil and a shadier flowering. The flower flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering of the flowering o the larger flowered purple and lilac, yellow-bearded

bulbous-rooted plant, with large white, cup-shaped flowers, grows nicely on a south border, and makes a good subject for indoor display. Should be given a good subject for indoor display. Should be given night loam and leaf soll, rather rich, and ample drainage, and when planted outside, taken up in whater for rest and protection.

Iwy.—All the Hederas are invaluable for growing on unsightly walls, and are most accommodating as to situation and soil, and some of them look very pretty, especially the smaller-leaved, close-clinging and variegated sorts. Hedera Helix Canariensis, the Irish Ivy, is a very quick grower, and soon covers a screen, It should be clipped closely in March. Donerall's Ivy and Hedera atropurpures are particularly attractive and graceful subjects, so are also Kelix follis argenteis and follis aureis, the allver and gold rives. Slips root readily in sandy soil in springtime in a shady position, if gently watered during dry weather.

Ixia. A graceful Cape bulb, with long slender IXIA.—A graceful Cape bulb, with long siender flower stalks, will succeed on a sunny outdoor border, but very suitable for the greenhouse if potted in autumn. May be raised from seed sown in September in light loam, in a cold frame. Peat or leaf mould should be liberally mixed with loam for the after culture of the Ixia.

Jacobesa.—The American groundsel, a gay and blooming annual, good for ribbon effects in the border, carrying crunson, blue, or purple bloom, and easily raised from seed or by cuttings, treated as are those of

raised from seed or by cuttings, treated as are those of the verbena.

Jacob's Ladder.—A hardy, herbaceous plant, emitting a disagrecable odour, but possessing pretty fern-like foliage, and bearing showy blue flowers. The silver variegated variety, Polemonium occurleum variegate, makes a good decorative pot plant, or may be utilised as a bedder, in rows or otherwise, being easily propagated by root division if firmly planted in any light soil, and well watered at the beginning. Its leaves are unedicinally used in many places as a noutlice leaves are medicinally used in many places as a poultice

reares are insurantly used in many passes as pointed ingredient in ulcerous atlinents. Japanese Primula. (See Primula.) Japanese Primula. (See Primula.) Jasamine.—Fragrant, free flowering, and rambling Sirubs, which may be trained as climbers or treated as suruos, which may be trained as chimbers of treated as trailers. The common white Jasinine, or Jessamine, is particularly attractive and powerfully perfumed. Nudflorum, a yellow-bloomed variety, flowers in winter on the naked stems. There are sorts which require on the named steins. There are sorts which require greenhouse culture, and are exceptionally beautiful. All may be raised from cuttings in sandy soil, started under a beligiass.

Jonquil.— Hardy bulbs of the Narcissl order, ver fragrant, flowering and elegant. Will last for yea. left alone out of doors if the old leaves are not cut

new arone out of doors it the out leaves are not cut away, and can be potted up for greenhouse and conservatory decoration, half a dozen in a pot. Both the doubles and singles propagate readily by division in September, and their yellow blooms are always

attractive. Kaloanthes.—Properly called crassula, this plant belongs to the house-lock order, and flowers in May, making a good rockery subject. It insuriates in a mixture of saudy loam and brick rubbish, and is increased by cuttings and offsets. The white flowers, of jasmine-like formation, become suffused with red as

jasmine-like forniation, Decoude Samuseu with rota as fley fade.

Laburnum.—The graceful tree cytisus, whose golden tassels of butterfly-shaped bloom are so attractive and familiar in spring time, grows beautifully and steadily in any garden where afforded room, and can be raised from seed without trouble. The leguminous control of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of seeds are narcotic and poisonous to many animals, and very dangerous to children.

very dangerous to children.

Lantam.—A capital genus of conservatory blooming shrubs, some sorts of which come in well for summer bedding. They are half-hardy perennials, in fact, and carry thick crowns of tiny verbens-shaped flowers in endless gradations of delicate colour shade. In warm, dry ground, light and rich, they do best out of doors, and come from March sown seed in heat or cuttings taken in autumn. Must have winter protection in

Langeria. - A handsome Patagonian evergreen

plant of climbing habit, requiring cool greenhouse culture, and may be trained on a balloon trell's effectively as a conservatory specimen, or round a pillar or on a back wall where the light has free play. They want rich sandy loam mixed well with peat, as a compost. They must have plenty of drainage, and need a lot of water. Their beautiful bell-shaped bloom, wary white wrote, it was they nearly seeding in heat. Lapagerias are liable to insect attacks in spring, and must be kept scrupulously cleen. Delphinium.

Label to insect attacks in spring, and must be kept scrupulously cleen. Delphinium.

Label to the sect attacks in spring, and must be kept scrupulously cleen. Delphinium.

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Label to the sect attacks in spring, and must be kept scrupulously cleen. Delphinium.

Label to the sect and white flowered, all old favourites for trellies or fences, propagated from seed or root division. They are useful for bouquets and table decoration, and should have the seed pods picked off if continuous bloom is desired. The annual sorts, now vastly improved and innumerable in variety, are referred to under the heading "Sweet Pea."

Laurustinus.—Belongs to the viburum family, which includes the Guelder rose, or Snowball tree, but is an avergreen. Bears clusters of pinkish-white bloom in winter and spring. Succeeds in deep sandy loam, and prefers a sheltered situation. Small sirubs make good subjects for window decoration. Increased by suckers or spring layering.

Laurusting, which should be pruned in spring where slapely bushes are desired. April is the time to plant struck cutting, which should be pruned in spring where slapely bushes are desired. April is the time to plant cut, either the white, or more familiar and typical lavender-coloured blooming sorts. Flowers for preservation should be graned in spring where slapely bushes are desired. April is the time to plant cut, either the white, or more familiar and typical lavender-coloured b

into stronger and richer mould. Must never be exposed to frost.

Leucoj mm.—Hardy bulbs with flowers of snowdrop shape, but very considerably larger in size. The variety verum, the Spring Snowlake, flowers naturally in March, and may be forced for window show earlier. The Summer Snowlake is a May bloomer. Both are very lardy and can be grown in clumps in ordinary states.

soil.

Lilac.—Though they will grow anywhere, the syringas are shrubs which pay for planting in good, deep, dry soil. The flowering shoots should be shortened about midsummer. There are attractive cultivated varieties of the syringas, both white and reddish-purple, and double Persian and Chinese, blush pink and white as the typical shade. The latter, especially the white flowering form, are much forced as pot plants in frames by the market gardeners, but abould only be so treated for one season, or at any rate not in two successive years.

as pot plants in traines by the market gardeners, but ahould only be so treated for one season, or at any rate not in two successive years.

Lilitum.—No British garden or greenhouse without illies can be considered complete, though the lily if not a British bulb at all. However, the lovely old white candidum has been cultivated in our gardens for over 300 years, as has also the scarlet chalcedonicum, or Turk's cap. Varieties of these should always be given outdoor treatment. So should the orange lily (croceum) and the Martagon sorts, all of which are very effective in borders. Light or medius, soils want well digging for their reception, with the historporation of plenty of well notted manure, and very heavy land is not suitable for illy growing at all. When the bulbs are planted in early autumn they are best surrounded by sand to save them from damping off before root growth has been established, and the clumps should not be disturbed for 3 years at least, though a top-dressing of leas-soil and manure may be lightly forked in with advantage in early spring. The bulbs may be gut 5 or 6 inches under the surface, firmly pressed

inpon sand, and for the first winter lightly covered with litter during extreme frost. A better plan still is start the root growth in post before planting out. For indoor culture the Lancifolium varieties, album, roseum, and rybrum, are grand, so are Longiflorum punctatum and astrosanguinium maculatum, besiden the Harristi, Brownii, parvum superbum, gigantseum, cordifolium, and gorgeous golden-rayed planease auraum. Leaf-soil rough and half decomposed, with mellow loam, some peat and plenty of river sand, mixed with wood ashes, makes a good general compositor the pot culture of illies, which should be given extra liberal drainage, and a layer of charcoal over the crocks, planting the bulbs tightly an inch below the top of the sell. Sand is a good thing to cover the crown of the bulbs with, and if they be plunged, pots and all, in ashes or coccanut refuse, tan, or leaf-soil to begin with, all the better. They may be kepi dormant in a cold frame or under the greenhouse stage during winter, out of the reach of frost and water drips, reported and grown on in spring, and placed in the greenhouse or conservatory, or turned out of doors altogether to bloom in summer. Sinking the pots of the choleer sorts in shady garden borders, the flower stalks securely staked, is a capital plan, and in the actual flowering stage they make splendid room plants. Water should be administered very sparingly untiversooking. If the pots at planting be but three-quarters filled, top dressing with peat, sand, and rich leaf soil will help as the flower stalks shoot up. The firmest bulbs should be preferred, very loose-scaled ones no being so satisfactory even if of larger size than those

will help as the flower stalks shoot up. The firmest bulbs should be preferred, very loose-scaled ones not being so satisfactory even if of larger size than those of sound healthy development.

Lily of the Walley.—Thoroughly British illic, of the valley are not files at all, but convallaria. Propagation is best achieved by division of the root clumps, which should be planted in a shady and moist but well-lighted situation in good soil, containing a large proportion of leaf mould and some well-rotted manure. Place the clumps a foot apart. They dowell in pots for out of season blooming in the greenhouse if retarded crowns are secured.

retarded crowns are secured.

Linum,—Graceful annuals or perennials; flavum (the yellow flax) and grandiflorum (rosy crimson) are both under a foot.

both under a foot.

Loam. (See Boll.)

Loam. (See Boll.)

Lobelia.—An invaluable plant for dwarf bedding purposes, making an admirable subject for the front of borders or window boxes. Grows readily from seed, cuttings, or root divison. The blues, speciosa compactum Paxtonil, and others are most in voque, and there are some pretty white sorts. Gracills, busty, as fine pot subject; erinus, a trailer, does well for banging baskets and vases, drooping elegantly over the edge; while there are tall varieties, including cardinalis, bearing scarlet blossom. Some particularly pretty doubles are now to be had also, less free of growth however, than the type, and requiring more care in cultivation. care in culltivation.

Care in cultivation.

Lounst Tree. (See Honeysuckle.)

London Pride. (See Saxifrage.)

London Pride. (See Saxifrage.)

Lottus.—The bird's-foot trefoil, a hardy rock-work
plant of dwarf, spreading habit, delighting in dry,
sandy soil, and readily grown from seed. The common
sort bears bright yellow blossom. Lotus Australis has
rose spikes, and the variety Jacobeus is a greenhouse
parential author fewers.

rose spices, and the variety Jacobeus is a greenhouse perennial, purple flower-lar-k, violet-blossomed annual, very peculiar foilings, 18 inches.

Lova-Lies-Bleeding. (See Amaranthus.)

Lunaria Blennia.—A pretty deep-violet flowering garden blennial, making 18-linch long leaf stems, the seed pods being serviceable for decorative pur-

poses, Lupin.—A free-flowering garden genus, annual or perennial, carrying long and stately spikes of bloom above robust and graceful undergrowth. Raised readily from seed, and increased by root division. There are various shades of white, yellow, and blue lupin, the seeds of the white sort being regarded as a highly

autritious farinaceous food in some European countries. Indigenous to the Mediterranean shores and temperate America.

Indigenous to the Mediterranean shores and temperate America.

Lychnis — Lychnis chalcodonica is a useful garden personnial, producing large heads of brilliant acarlet bloom in July. Good soil gives splendid results. May be put out in the border in spring and autumn when the plants part up well. "Ragged Robin" is the British meadow lychnis, and the Gom Cockle and Campion belong to the genus. The double-flowered cultivated varieties may be propagated by cuttings from side-shoots taken in June.

Lycopodiuma (Selaginellus).—An order of pretty, flowerless creepers, popularly known as club-mosses, many of the species being variegated. They grow well in ferneries and the shadler situations of the greenhouse, and spread with rapidity.

Machaelmas Daisy.—The starworts, or perennial asters, are all vigorous subjects, and gross feeders. Multitudinous as to variety, the genus comprises almost every floral colour, and subjects of heights ranging from s to 5 feet, blooming between August and December. They spread rapidly, and should be cut up and replanted each second year, in spring time for preference, though autumn will serve, destroying the central part of the old stools. The Michaelmas daisies rank amongst the best of town grown hardy perennials.

Mignonette.—Of this fragrant favourite there are endless varieties, all of them thriving best in an open situation. Seed may be sown early under glass for transplantation, which must be carefully done with as little root disturbance as possible, or scattered about on borders anywhere where the sun shines, in April or

little root disturbance as possible, or scattered about on borders anywhere where the sun shines, in April or May. Light soil containing calcareous ingredients

borders anywhere where the sun shines, in April or May. Light seil containing calcareous ingredients suits mignonette admirably, and if it be prepared beforehand by manuring well, and the plants are thinned out and watered copiously during drought, splendid results will be achieved. It is a good window plant, indoors or out, and the giant mignonette is an attractive conservatory subject.

Minuclus.—The "Monkey Flowers" are handsome perennials, bearing large flowers in which bright yellow coloration predominates, often splashed and spotted with brown, chocolate, or coppery red. Minulus moschatus is the common and pungently odorfielous musk, which delights in shade and moist warmth, Harrisonil being a large flowered variety. The minute seed should be scattered thinly and very slightly covered, and starts growth best in gentle heat. Minulus seed sown in spring makes fine plants for sammer bedding; autumn sown seed will produce arrly flowering plants for indoor embellishment. There is a double-flowered "hose-in-lose" minulus, luctue is a double-flowered "hose-in-lose" minulus, luctue is a mobilis by name, which some people prefer before all mobilis by name, which some people prefer before all others on account of its curious formation. Rich soil should be employed, inclining to lightness, and plentful watering is essential to their successful cultivation amanagement. All these plants are easily propagated by cuttings.

by cuttings.

**Monaywork.**—The pretty trailer more commonly known as "Creeping Jenny," the botanical name of which is Lysimachia nummularia. Its long strings of loose-lying yellow flowers fancifully supposed to tesemble rows of small gold coin, gained it the oppular title of moneywort. Propagated by division, will grow almost anywhere, and is very useful as a hanging basket subject. Likes plenty of moisture at the roots.

**Monayer Propagle.** (See **Managayia.**)

the roots.

Monkey Puzzle. (See Araucaria.)

Monkey Hoods (See Aconite.)

Monkey Hoods (See Aconite.)

Monker Hoods (See Aconite.)

Montreatis... A bulboous and distinctly beautiful subject, akin to the smaller gladioil as to root appearance and foliage, and requiring similar culture. The flowers are grown on gracefully branching stems, and are usually deep scarlet, suffused with yellow. Montreits should be planted in a warm border in October, in rich yet light, sandy loam, with an admixture of leaf soil, about two inches apart and three inches deep, being covered with litter until March, when a muching of short manure, preferably from an old bot bed, may be substituted. Montbretias like

plenty of water, especially in summer time, to prevent the leaf blades from browning at the sipa. With ordinary treatment they spread rapidly, and should be divided and transplanted in late autumn, when they will afford a splendid display during the succeeding summer. The long stender branches of bloom, which keep well after cutting, come in admirably for bouquets and dinner table decoration placed in glasses with asparagus fern, maiden-hair, or other light

bouquets and dinner table decoration placed is glasses with asparagus fern, maiden-hair, or other light greenery.

Morning Glory. (See Ipomoca.)

Moustache Plant.—A pale-blue blossomed lateflowering shrub (Caryopteris mastacanthus) with prettily silvered under leaves, reaching 3 feet high, thrives in a sunny sheltered border in any good spil.

Mullella.—A flowering perennial or blennial border subject, botanically called verbascum, carrying erect spikes of showy bloom. Phoenicaum, a to y feet, has purple rose or white flowers, according to variety, formosum, 6 feet, dense pyramidal golden yellow olympicum, which should be treated as a transport of the should be treated as a transport of the should be treated as a transport of the should be treated as a transport of the should be treated as a transport of the should be treated as a transport of the perennial sorts may be successfully practised by division in any be raised from seed sown in spring in light soil, and transpanted before placing in its final position in the April following. Propagation of the perennial sorts may be successfully practised by division in spring or autumn.

Museari.—Dwarf spring flowering bulbs of the hyacinth order easily cultivated in good garden soil. Museari moschatum has livid greenial sprikes, musk-scented, botyroides (the grape hyacinth) is smaller and very attractive, with blue and white bloom; monstroum (the feather hyacinth) has feather-like flowers; conicum, blue, is bright, beautiful and free growing. Should be planted out in September, and dealt what hereafter as advised for bodding hyacinths.

Musek. (See Minulus.)

Myosoties. (See Forget-me-not.)

Mysoties. See Forget me-not.)

Mysoties

Marciasus.—This tribe of hardy spring flowering favourites includes all the daffodils and jonquils. The bulbs may be treated as hyacinths for pot and general bulbs may be treated as hyacinths for pot and general indoor blooming, and by planting them at intervals between the beginning of September and Christmas, a long succession of floral beauty may be provided. Either amgly or several in a pot, they produce a pretty effect. Out of doors they are best planted first in well-drained and sheltered borders in September deeper than the hyacinth, say g inches down, and the beds lightly covered with dry leaves or litter. Good sandy loam grows all the narcissi nicely, and they may remain undisturbed for three seasons with advantage, except where the woil is property striken, when transremain undisturbed for three seasons with advantage, except where the soil is poverty stricken, when transplantation to a fresh position will help matters. The polyanthus sorts, though large of bulb, are the least rebust, and the poeticus varieties should be planted or transplanted, as the case may be, as a rule, earlier than the rest.

nan the rest.

Nasturfium. (Sec Tropscolum.)

Nemesia.—An effective half-liardy annual, a little over a foot high, carrying a profusion of bright, orange, crimson, or scarlet bloom, sometimes showily blotched. Good for bedding masses or for muring with other border subjects. Sow seed in heat in January, pot the young plants off singly, harden off, and plant out at the end of May.

Nemophila.—A next, dwarf-growing floriferous border annual, particularly suitable for the front of the bed. They are propagated readily from seed sown thinly in drills where blooming is desired. Insignis is a pretty and compact spreader, white eye and sky blue, and maculata blotched purple on white is robust and larger flowered. Phacelinides, blue and white, is a pereunial, and may be divided for increase, but the

varieties of insignis, of which the seedsmen offer many, are the best to employ for ribboning or masses, insignis grandiflora being recommended. Seed sown in August will bring about an early summer display, that got in on good soil in April comes on a little later and is perhaps the surer. Thin out to allow every plant room for free expansion, Cats always roll on this plant.

**Hisotlana**. (See Tobacoo Plants*.)

**Mile Lillies. (See Evening Primrose.)

**Olsandar (Marium olsander).—A handsome, tough-leaved, greenhouse shrub, bearing pink or white semi-double bloom. Should be grown in peaty loam and sand, and kept plentifully watered, the foliage being frequently sponged to ward off the brown scale affacts to which the genus is subject. Ripe shoots may be struck if root growth be started by immersion in rain water exposed to the sun. The howers and shoots after the poisonoper of the flowers and shoots of a result of the poisonoper. It flourishes out-off-doors along the Mediterranean, and may be stood in sunny shelter on south-fronting terraces in this country with asfety when matured in pots if frost be guarded segminst. with safety when matured in pots if frost be guarded

against.

Olsaria Haastii.—A box-like evergreen, sometimes called the "Bush Dalsy," suitable for growth in
a sheltered town garden for hedge ornamental
purposes. Reaches a height of 5 feet, and produces
regrant white flowers. It grows well in loamy soil, and
may be ellipped neatly in spring or autumn without
injury if discretion be displayed.

Orchids.—The growth of tropical orchids is a thing
for the expert only with "all appliances and means to
boot," which include a well-planned and appointed
hothouse or stove. But many beautiful orchids from
the Cape of Good Hope and sub-tropical or temperate
regrons may be successfully cultivated in an ordinary

boot." which include a well-planned and appointed hothouse or stove. But many beautiful orchids from the Cape of Good Hope and sub-tropical or temperate regions may be successfully cultivated in an ordinary greenhouse, if intelligently treated; but there are some charming species hailing from Southern Europe, which require but slight protection in this country against winter rigour. Therefore, almost everyone who wishes may venture to some extent upon orchid-culturel without fear of absolute failure. The terrestrial, or ground-inhabiting, orchids present least difficulty to the novice, and many of the cypripediums and other attractive groups may be dealt with in amante artisling comparatively little trouble beyond the employment of a plentiful admixture of good peat and clean silver sand and clarcal dust with the potting compost, proper attention to watering during the growing period, and the provision of particularly complete drainage in extra clean pots of suitable size for the subject. Most of them flourish best in maintained hunidity, with steadiness of genial temperature and freedom from draught, ventilation being given near the pipes. Overheating and atmosphere fluctuation must be sedulously avoided. A large range of orchids succeed where paims and the more delicate ferns flourish, and the combination always has a pleaving effect. An even winter warmth of 45 degrees and 60 in summer unifices for the healthy development of numerous lovely species from South America and the mountain districts of India, such as the maskevallas, lycastes, and content of the complexes of the orchidums and others of the epiphytes, or tree-group species for the healthy development of numerous lovely active the secured to clean porous and undecaying wood blocks or pieces of tree-fern trunk. All these req isites may be obtained from the forist's without muci, outley, and iving sphagnum moss and specially selected fibrous peaces are also readily procurable for use in lieu of soil where the species subsist on air and moisture alone.

green foliage contrasting finely with the sich blossoms. Oxalis foribunds, with rosy-coloured flowers, is a good garden variety with the site, purple-veined, wild rosy-coloured flowers, is a good garden variety with the site, purple-veined, wild rosed sorret, which folds its roses at night or under the influence of the hot sun.

Pasony.—Herbaceous pasonies are very hardy, so also are the larger shrubby section, sometimes called tree pasonies; these latter, in a very severe British winter, require slight protection. They will take up a great deal of nourishment, and should be planted in strong, deep, rich loam, into which a quantity of rotten cow-dung has been dug. They throw up above their large ornamental foliage great globular blooms of rich hues, crimson, rose, salmon, blush, and also pure white. A shady situation, yet open, suits them best, as strong sunlight will often cause the flowers to fade, and watering with weak manure decoction assists development. Some of the Chinese paconies exhale a peculiar perfume. They propagate by division after flowering, or from cuttings carefully layered, and can also be raised from seed, but the young plants will not usually flower for 5 or 6 years. Some white flowered varieties have sulplur or other tinted centre petals, and almost every season produce new hybrids. There are European peconies with single flowers of great charm, not unlike those of the water-lily. Any of the tribe look well on large lawns, or in front of sirubberies.

Palma.—Many graceful palms flourish and endure for a lengthy period in full beauty in the greenhouse and conservatory, or as subjects for room decoration, and a goodly number will stand well out of doors in our climate with a little care in all but the severest weather.

and conservatory, or as subjects for foom decoration, and a goodly number will stand well out of doors in our climate with a little care in all but the severest weather, Phomix sylvestris is one of these, and the variety dactylifera (the Date Palm) is easily managed. Cocos Weddelians, which likes the shade; I atama Borbonica (the I an Palm); Araucaria excelsa, Kenetia Fosteriana, the dwarf-keeping Chamacrops humilis, and Geonoma gracilis, Rhapis flabelliforms, and the Chilian Jubeas spoctabilis, are all ornamental and easy to deal with. Inexpensive when young, they make handsome table plants, and most of them may be grown on by judicious shifts and outdoor hardening to a considerable size. They do not require large pots, comparatively speaking, at any stage, but should be very firmly planted, over ample drainage, when they will absorb any amount of root watering within reuson, a good compost being fibrous loan, peat, and leaf soil in about equal proportions, with plenty of sharp sand.

Panagy.—The pansy, as we know it, large, rich, and

of root watering within reason, a good compost being fibrous loan, peat, and leaf soil in about equal proportions, with plenty of sharp sand.

Pansy.—The pansy, as we know it, large, rich, and beautiful, is what the florists have made it, from the basis of the viola, or wild pansy, of bank and hedge-bottom. There are two types, the British Heartsease, or show sort, with the variant colour patch round the small eye; and the Belgian, or fancy division, having the "blotch" as large as possible. The former type is sub-divided into selfs of almost every hue, white grounds and yellow grounds, and each class possesses an endless and ever increasing variety. The two top petals of the flower in both types should be of even coloration, correspondent with the belt surrounding the ground colour on the bottom petals, and in some of the darker British show selfs there is no discernible blotch. Propagation of the choicest named pansies is by cuttings, for seedlings are apt to vary widely from the parent; though packets of seeds saved from the finest and most perfect flowers of every variety are pretty certain to produce some every satisfactory plants. Sowing should be done immediately following blooming for display in the succeeding spring, or in April for autumn flowering. Fibrous loam there parts, leaf mould two parts, and some clean sharp sand, forms a serviceable pansy compost, and this should for beds are placed at least 4 inches thick over a well-dug and drained subsoil to get fine bloom. Pot plants must be well crocked and carefully watered.

Papawar. (See Poppy.)

Passion Flowers.—This interesting and very peculiar-flowered climber is usually reckoned a green-noise or conservatory subject, but the variety cerules will train up a sunny south wall in a sheltered spot out of doors, and do well in any good light soil. For pot culture, wound round a trellis or a pillar, it requires plenty of drainage. Cuttings should be taken with a heel, young

short shoots, and put into single pots of light, sandy compost in a close frame or under a glass to strike. Not only the blue sort, best known, and others like it may be grown easily in the greenhouse, but the rarer red coccines and some white sorts, among which "Constance Elilott" is perhaps the best obtainable. The fruit of the Passiflora looks presty on the plant, and that of P. edulis is considered a delicacy.

Peas, Sweet. [See Sweet Fee.]

Peas, (See Boll.)

Peas, Sweet. [See Geranium.]

Peantasemon.—Pentstemons like a peaty soil or rather heavy leam, particularly if it be well worked and efficiently drained. The hardy species contains a wide range of variety as to colour and habit. They are propagated from cuttings, or from seed sown in gentle heat in March, and transplanted after previous pricking out in a cold frame, to the blooming bed in May. Some of the choice florits sorts of pentstemon almost rival the gloxinia in beauty of bloom, and these should be raised from June-sown seed, grown on and sheltered over the winter for spring planting, being reated as half-hardy perennials. The cuttings are treated the same as those of calceolarias (which see).

Persunials, Hardy.—This term includes all plants which will winter out of doors and do not require renewal from seed annually or at most biennially. It therefore comprises most of the border subjects of a British garden, both those which die down to the ground in autumn or winter to re-appear the next season, and those which renain evergreen such as the carnation and the saxifrage. The principal varieties of both classes will be found fully death with seriatum in this dictionary.

Perful.—A very useful annual for ornamental

varieties of both classes will be found fully dealt with seriatum in this dictionary, Perilla.—A very useful annual for ornamental bedding purposes, Perilla Nankinensis may be raised from seed sown in gentle heat in March, the seedlings being pricked out ma cool frame subsequently, and planted in the garden beds at the end of May. Its foliage is deep maroon, almost black in some cases, and it carries panicles of pink bloom, which may be pinched off to maintain the full force of the colour effect of the dark leaves in ribboning work if necessary. It grows to a foot or 18 linches high.

Perilwinkle.—An evergreen trailer, sweet scented, bearing pale blue flowers in springtume, and of rapid growth. Likes a moist shady situation and light soil. Propagated with facility by root division.

From the first and the Gardon.—Snalls and signs are among the most destructive of the gardoner's enemies. Cleanliness and the removal of the harbourage of these Cleanliness and the removal of the fiarbourage of these marauders is essential. Flower pots left lyling in moist shady places, decaying vegetation, and rubbish of every description, afford shelter to shell snails which creep from under cover nightly to play havoc with young plant growth. All such hiding places should be aboilshed as far as possible, and irremovable concealment positions thoroughly explored by daylight, the pests being captured and killed, while persistent nightly searches must be made by the aid of a lantern or candle at planting-out time for both snails and slugs on the proyet. Throw them into an old pail containing nightly searches must be made by the aid of a lantern or candie at planting-out time for both snalls and slugs on the prowl. Throw them into an old pail containing a little water made strongly saline whist warm; this will quickly kill them ail. Lime spinkled round seedlings and tender transplanted subjects impedes the small fry until wet has exhausted its fire, and they may be trapped by laying about cabbage or lettuce leaves and them made an end of. The "leather jacket" or "daddy-long-legs" larve do a lot of damage by eating through the stems of carnations and other large through the stems of carnations and other sequences of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the stems of the ste insects will have perished in effecting the change-Handpick and slay every ravenous creeping vegetarian you can find, looking most closely for a caterpillar that is generally endowed with protective mimicry. Throw the finest dry dust over the leaves of anything the turnip flea and his congeners attack, doing this when the leaves are damp. Hunt out the little brown grub that rolls himself in young rose leaves, and commit him and his scheir to the flames. Syring every evening every plant, bush or climber, that any of the green alles or other aphides have got at giving them, if you like, a dose first of weak tobacco water. Permit rad spiders, the almost microscopic thrips, and all the rest of the tiny eaters of leaf substance no peace, squirting at them often in early morn and dewy eve under where they are seeking a lodgment and maintenance. Encourage the ladybird, the eater up of these. When the insectivorous raccals get out of range amongst stuff that is forcing in frames or plant houses, it may be necessary to fumigate; then do the smoking with discretion, yet thoroughly. Mildew will go where cold draughts prevail. Then use flowers of sulphur on all affected parts. Proceed with cultural assiduity to keep your botanical belongings in robust condition, and one will not be overtroubled by the multitudinous pests which are always springing into life to prey upon sickly subjects that cannot rosist their attack. There are also bigger pests, more difficult to circumvent if they get into a garden on mischie bent, cats, dogs. insects will have perished in effecting the change

sickly subjects that cannot rosist their attack. There are also bigger pests, more difficult to circumvent if they get into a garden on mischief bent, cats, dog, mice, moles, fowls, and even children not in sympathy with horticulture. Keep them out.

Patunia.—A half-hardy, soft-wooded, profusely flowering subject of great utility as a bedder and greenhouse or window blooming plant, luxuriating in a compost of rich fibrous loam with leaf soil to the extent of one-third, decayed cow droppings one-sixth, and sharp sand one-sixth. Sow in well-drained shallow pans, lightly sprinkling the seed with fine soil, and keeping close to the glass in a cool frame in April. Transplant the seedlings into single pots, grow on, watering freely, and pinching back to promote shrubby growth, gradually hardening as it proceeds. Peg down the longer shoots when in the borders, when the plants will throw up new growth bearing many flowers. Cuttings

gradually hardening as it proceeds. Peg down the longer shoots when in the borders, when the plants will throw up new growth bearing many flowers. Cuttings taken in August and put in hight soil on a shady border will root readily, and may be transplanted to pots to shelter during the winter and bloom early in the following year. Petunias are fond of weak manure, and plentful syringing, avoiding injury to the flowers, will keep down insect pests. There are many handsome sorts, both single and double, and great diversity of colour. In winter they must be kept fairly dry, and have plenty of air. Should mildew appear during the rest period a dusting with sulplur is advisable. Phacealla Campanularia—The Bell—Flowered Whitiavia (which see). Phacealla Campanularia—The Bell—Flowered Whitiavia (which see). Phiox.—Phoxes are magnificent garden plants, both the perennial and the balf-hardy annual Drummondi variety. Their great trusses of deheate disced bloom, of many hues, always compel admiration, and the flowering period is lengthy. They require rich soil, deeply drained, and make large masses of matted root growth near the surface, so should be kept copiously watered and mulched with soft manure during dry weather. The perennial part readily when new growth if commencing, and cuttings may be made in spring and struck in sandy soll in a warm shady spot. The early flowering pyramidal section comes into full beauty in early June, while the decusant varieties of the perennial division are at their best a full month later. The annual Drummondi Phloxes should be raised from seed sown in gentle heat in March, and planted out in May in good soll, when they will make a grand annua Drummondi Prioxes Should be raised from seed sown in gentle heat in March, and planted out in May in good soll, when they will make a grand display. They reach a foot high, and may be sown safely out of doors in the blooming bed, thinly, in

April.

Physalis Franchetti.—"The Chinese lantern," a species of winter cherry, well worth cultivation for the decorative properties of its pretty calyses and fruits, which last long indoors when gathered in the autumn. A rather poor soil suits this subject, which may be divided at the roots in spring and transplanted.

Plootes.—These very pretty premains require exactly similar treatment, both for pit and bedding

culture, to their near relations, the carnations, from which they are distinguished by a narrow edging of dark coloration on the flower petals, varying in shade from rose to scarlet or purple, and in breadth from a more like to an eighth of an inch. The more even and distinct the marking, the more picotess are esteemed. They require particular care in keeping free from wire-

worm attacks.

Pink.—Garden pinks are no less acceptable than their fordlier congeners, the carnations, because of their hordlier congeners, the carnations, and spreading sweet exhalations of perfume and robust and spreading growth. They propagate by root division as well as from seed and by pipings and cuttings, and make a delightful edging subject. There are laced and fringed varieties galore of the old-fashioned type, with a variety of coloration, white, however, being predominant, and even the single sorts are attractive. The florists have raised some very handsome, free-blooming, large-flowered pinks, amongst which Her Majesty and Mrs. Sinkins may be mentioned as specially excellent in all respects. All the pinks like a good rich loam to grow in, with which decayed cow-manure may advantageously have incorporation. sweet exhalations of perfume and robust and spreading

respects. All the pinks like a good rich loam to grow
in, with whitch decayed cow-manure may advantageously
have incorporation.

Flumbaso.—A genus of climbing perennials, with
flowers not unlike open blossoms of the phlox tribe,
some varieties of pretty and delicate shades of blue,
pink, and purple, and in cases quite white. The
variety capensis, light lavender hue, is much favoured
for training round pillars or along the rafters of greenbouses. Rich, fibrous loam, with peat and sand, suits
the plumbago, and it can be propagated by cuttings
and rooting offshoots.

Polyanthus.—The bunch-flowered garden primula, supposed to have originated in a cross between
the cowait pand prinnesse. There are gold-laced, fancy,
and hose-in-hose sections, all readily raised from seed
evoct division, and each containing numerous varieties.
The yourself of the section of the section of the seven in summer, and the seedless pricked
off for later transplantation to commence blooming the
following year. Clumps should not be allowed to
remain unparted more than three years or the flowers
will deteriorate. The colours vary from white, through
cream and pearly blue to scarlet, maroon, and nearly
black, and from golden-vellow to deep brown, same

off for later transplantation to commence blooming the following year. Clumps should not be allowed to remain unparted more than three years or the flowers will deteriorate. The colours vary from white, through cream and pearly blue to scarlet, marcon, and nearly bluck, and from golden-ycllow to deep brown, some baving several shades of colour in combination, while there are doubles as well as singles.

Polygonatum.—A genus of herbaceous perenials, which include the feathery "Solomon's Seal," with distinctive pondulous green and white flowers at the leaf sails. Likes shade and soft good soil, and may be increased by root division.

Poppy—The Papavers are a numerous family, light and graceful generally, pretty of foliage, and bright if evanescent of bloom. The satiny Shirley popples, white, rose, and crimson, are capital summer bedders, and should be sown thinly in March on the borders and again in September for early bloom the following season, allowing each plant plenty of room to develop. They like light soil, and glory in sunlight. Other attractive annual varieties are the Mikado section, with fringed petals, the brilliant scarlet tulip, the carnation-flowered, the double-peony flowered, and the Danebrog or Victoria Cross, white or scarlet. Of the perennals, the Icaland popples and the Oriental species, orange, red, or silvery, often with black centres, are great favourites; while the halry sulphur and blue Himalayan sorts are, properly speaking, beannials, and should be so treated. They need watering at the root freely in summer. The elegant little Alpine popples—one, salmon, buff, ergane, pale vellow, and white, are gens for the rock garden.

Postulaca.—The "Sun Plant," a large and brillantly flowered yet dwarf growing half-bardy annual, delighting in a hot, dry situation. Best sown where it is to flower the end of April or early in May.

Potentilla.—A genus of herbaceous perennals, the smaller varieties of which resemble the wild strawberry. The wild Marsh Cinquefold is a potential, but some of the garden

Propagated by division, or may be grown readily from seed. Agrophylla has elegant silvery leaves. Footing Hints.—Too much insistence cannot possibly be given to the importance of proper potting, as regards every plant so treated. The right size of the pot for the subject for the time being must be carefully chosen, and the pots should be rendered scrupulously clean and perfectly dry before the soil is placed therein. The drainage must be complete also, and systematic. Over the hole at the bottom a concave sherd or shell should be first placed, with clean crocks above, the larger below and smaller above. Next should come fibrous or lumpy mould, and then the requisite compost pressed firmly down whilst unwetted. Then the plant, its roots carefully spread, and finally the soil to surround it and reach the pot sides, all being nicely thrust down taut with the finger-ends and knuckles, leaving the stem of the subject erect and well fixed in the centre, with a good half-inch of space between the surface of the neatly-evend soil and they form, more room being left in large pots to facilitate watering later on. To settle the soil round the roots, after planting, the pots should be plunged in a pail or other utensil with water reaching above the rim, given a good soik, and then stood to drain. Thus you get the fair start which is half the battle in pot plant culture. Careless and chumsy planting invites and occasions multitudinous failures. Free perfolation of water round the roots, and efficient aferation are quite as essential as suitable soil, and the former may be materially assisted by the use of broken charcaol above the crocks, and charcoal dust in the compost. Stagnation spells plant signifier. the crocks, and charcoal dust in the compost. Stag na-

the crocks, and charcoal dust in the compost. Stagnation spells plant slaughter.

Primrose.—The common "pale rathe" Primrose of the British woodlands, always a welcome harbinger of apringtime, grows readily in leafy soil in shady nooks of the garden or hollows of the raised rockery. The double varieties, mainly raised from a Japanese stock, are very hardy and very beautiful. There is a good range of flower colour in these, white, yellow, liac, mauve, blue, and crimson. They are closely allied to the polyanthus, and succeed with similar culture, being propagated by division.

Primrose, Evening. [See Evening Primrose.]

Primula.—What is generally understood under this head is the Chinese genus, Primula sinensis, so much cultivated for greenhouse and general indoor display in spring, though of course all the true primuses really belong to the family. There are many varieties, the florists having paid much attention to their hybridisation improvement. Good seed having been secured, it should be sown in a compost of half lacknessed and a guarantee coats of vallous learn and to their hybridisation improvement. Good seed having been secured, it should be sown in a compost of half leaf-mould and a quarter each of yellow lean and sharp sand from March to June, over sight bottom heat, shading until after germination. Transplant the seedlings as soon as they are big enough to handle into boxes or pans, well drained. Later shift into compost, and hardening by exposure to the shade. Top-dressing and manurial watering (weak) may be given as the flowering time approaches, placing the plants near the glass in well ventilated frames, or on shelves in the greenhouse. Primules can be increased by division of the crowns with a portion of stem and root attached to each piece; when growth is established there may be reporting and treatment generally as fed eveloping plants obtained from seed. The choicest primulas never need a temperature exceeding fifty degrees at night in winter to keep them in robust condition. Early sowing and forcing treatment will bring some into bloom in November, and successional flowering can be kept up into late spring. The warlety obcomica is a very persistent bloomer.

Prince's Feather. (See Amaranthus.)

Propagating.—There are several methods of plant propagation, natural and otherwise. Seed-sowing will be found to have been treated in a separate paragraph. Offsets from the parent builto or stem of the plant above the soil furnish a second method of increase. Slips or cuttings are young should be taken when the parent is in vigorous condition, if possible,

and clean cut below a joint, as this facilitates the formation of the callus, from which root growth must emanate, and cuttings must always be placed in the shade until the root growth has commenced. Division of the plant means the breaking up of the subject into separate pieces, each having its portion of stem, leafage, and root. These should be planted separately a kindly and suitable soil, and tended carefully until capable of supporting themselves from the nutriment provided for the purpose. Propagation by suckers is the detachment of spreading roots which have thrown up a stem; these should be cut away as near to the stem from which they emanate as possible, retaining all the root development of the sucker in the operation. Runner propagation is the pegging down of low all the root development of the sucker in the operation. Runner propagation is the pegging down of low branching or superficially spreading growth to induce the formation of roots therefrom with subsequent severance of the shoot so dealt with. Layering is a modification of this, the root growth in that case being accelerated by an incision in the depressed stem. Some plants like the strawberry, "creeping jeany," mother of thousands," and others root their own runners, and are styled stoloniferous. Then there is crafting and hudding or the springers are said. runners, and are styled stoloniferous. Then there is grafting and budding, or the enforcement of a well-established, coarse, strong-growing subject to incorporate with itself a scion taken from a tenderer and choicer relative, as the rose on the briar, fine applies on the crab, and so on. This is usually done by grafting, in which the standard is cut down and cleft perpendicularly to receive a prepared piece of the subject from which new growth is desired. The stock is condemned to spend the rest of its days in conveying nourishment to the graft, thus suffering total eclipse. There are numerous variations of practice in this latest horticultural particular, to suit different circumstances, and for their mastery, technical knowledge, which it is not possible to convey here in detail, is requisite.

this latest horticultural particular, to suit different circumstances, and for their mastery, technical know-ledge, which it is not possible to convey here in detail, is requisite.

**Fyrethrum.**—"Coloured marguerites" many people call the varieties of Pyrethum roseum, which rank among the most acceptable of early summer flowering border perennials of the hardy herbaceous order. From the type they have so far diverged as to include subjects bearing the bloom of white, yellow, and red in many shades, as well as rove, and both double and single in form. Pyrethrums may be raised from seed and cuttings, but are most safely increased by root clivision in early spring. A second crop of flowers may be obtained by cutting down the leaf stalks to the ground when blooming is over, forking round, and watering with liquid manure to encourage new growth. Wood ashes or soot may be employed as a dryssing for the double purpose of fertilisation and keeping slurs away when the shoots begin to appear on the crowns. Mulching is advisable, too, for pyrethrums where the soil is light, especially in time of drought. Tchinatchewil is a close growing evergreen pyrethrum good for growing on stopes instead of turf, and also for rockery furnishing. It bears long stalked white flowers. The strongly, and to many disagreeably, odoriferous feveriew, single and double white, also the useful golden-follaged Pyrethrum parthenium aureum belong to this cenus. For carpet bedding, lines of the latter should be pinched back to keep dwarf, and every flower but removed.

**Rantungulus.**—Both Tersian and turban ranunculus and the particular of the curious annual trembling grasses, grows readily from seed, and is very useful for bouquet work and preservation for winter decoration.

**Rantungulus.**—Both Tersian and turban ranunculus accompanying root claw, furnish the most rounded by sand in February in deep dug pits of rich bears, and earlied with decayed cow manner, and whilst growth is in progress there should be plentiful vatering. Offsets from th

has blue-grey foliage and shining gold flowers. Genda-tions of white, crimson, scariet, pink, rose, yellow, brown, purple, and black selfs may be met with among the ranunculuses, and some of the flowers present two or more colours in combination, the markings and edgings being in cases very attractive. The type originated in the Levant, and the Persian section, should be shaped like a ball with one-third sliced off the top, the petals lying close and tight from outside to centre. The compact blooms of the turbans are all of positive colour, and there are variations to a the top, the compact blooms of the rurusus and to centre. The conpact blooms of the rurusus and all of positive colour, and there are variations to a semi-double condition classed as French ranucull, which are particularly floriferous and vigorous of

Red-Hot-Poker Plant,-The tritoms, or kni-Red-Mot-Poker Plant.—The tritoma, or kni-phofia, as this singular and showy perennial is variously styled by the florists, is, in popular parlance, the "torch ligh," "flame flower," or "red-hot-poker plant." It has long and graceful sword-like leaves and gorgeous spikes of orange and scarlet bloom, changing to greenish-yollow. It should be grown in deep-dug, well-manured soil, and planted with the crown about an inch and a half bolow the surface, and protected in whiter time with a covering of litter or sawdust, firmly trodden, which may be removed in early May. The tritoma will absorb a large quantity of liquid manure in the growing period.

growing period.

Reseda. (See Mignonette.) Rhodanthe.—Beautiful, half-hardy everlastings, of and compact growth, very decorative in garden borders and the conservatory or parlour window. Requires light and rich soil and sheltered attaction, and must be raised in gentle heat from seed, and hardened hopes believed with the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of must be raised in gentle heat from seed, and hardened before planting out on a warm border in summer. The flowers in the variety Mangkesil are light rose with silvery calvy, and should be gathered young for drying. Rhododendron.—These magnificent summer bloscoming shrubs grow only to perfection in moist, peaty loam, quite free from lime, and must not have the ball broken or the stem loosened in re-planting. There is very considerable diversity as to size and flower coloration. Rhododendrons like plenty of room, and the shelter of tall trees from north and east winds. They flourish in towns if not crowded too much. The Dahurian variety flowers in early spring, when its pretty purple bloom is particularly welcome. Arboresum sea a hardy and reliable hybrid, and the Catavblense varieties are handsome both as regards flowers and foliage.

-The "flowering current," Ribes sang MIDES.—The "nowering currant," Kibes sanguinea, is familiar to most folk as a very pretty spring blooming shrub, whose abundant plaky and crimson racemes open with the opening leaves. Ribes grosularia is the gooseberry, There are other varieties bearing white

ing shrub, whose abundant plank and crisson racemes open with the opening leaves. Ribes grosularia is to gooseborry. There are other varieties bearing white and yellow forces, the latter being sometimes known as the "Buffalo Currant." Any soil and any position scent to agree with these bright and accommodating bushes, which are amenable to clipping for hedge-formation, and to not object to a sesside situation. They should be planted when the ground is not too wet and pasty, towards the end of October and the utilisation of opportupity in the choice and disposition of constructive materials. Brick burns, etc., is largely a matter of individual taste, and the utilisation of opportupity in the choice and disposition of constructive materials. Brick burns, etc., large clinkers, rough lumps of alabastar, broken marble, sandstone, limestone, or anything else at once available and suitable may be employed, and arranged in irregular and picturesque stepped banks, with many nooks and crannies to form receptacles for soil, in which to grow the right sort of plants, shrubby, herbarcous, and trailing. Stability in building up the rockery, coincident with avoidance of formality, and the provision of a plentiude of firmly-placed and nutritive mould between and behind the facing boulders, are the chief essentials, with perfect drainage under all. Every stone or whatever else be utilised should have its part in making a permanently fixed about have its part in making a permanently fixed about a sunken soil to afford sustenance to one or more subjects, and to permit others being planted, watered, and otherwise attended to without structural disturbance. The right sort of plants, and there is a wide range of choice, should be carefully selected and

introduced to the situation best adapted to their natural needs. Some require shade, some much moisture, some revel in strong smilight. Perennials are preferable, as, once introduced, and properly established, they call for little after treatment beyond keeping within bounds and occasional superficial dressing. Auriculas and alpines generally, genitans, the saxifrages, the sedums, stonecrops, or (Creeping Jenny), abretilas, arearrias, dwarfed trailing campanulas, arabis, rockcress, the houseleeks (sempervivums), soldanellas, the catchifles or silenes, the smaller achilleas or milifolis, the bugle flower or ajuga, the "gold dust" oralyssum, the antennar "snow-plant"), the thrifts (armeria), the alpine wallflower, cistus (the rock rose, the Virgmian chaytonia (which likes a moist habitat), the hardy cyclamens (requiring slight winter protection in most_cases). which isses a moist habitat), the hardy cyclamens frequiring slight winter protection in most cases, the American cowsilp (dodecatheon), Dianthus neglectus (the glacier pink), the rosette-like drabs, the creeping mountain aven or dryas, Sarracenia purpurea (the hardy pitcher plant), the mountain thymes, the soap wort (saponaria), the vincas or periwhikle some of the smaller veronicas. The sanguistic and the similar processing the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and the sanguistic and t soap work (saponaria), the vincas or periwinkle some of the smaller vernoicas, the sanguinaria or bloodroot the Alpine primulas, the dwarf Alpine phloses particularly the profusely silvery-grey flowering variety stellaria), Patycodon Mariesii the Chinese balloon flower), Papaver alpina (the Alpine poppy), Orobus vermis (the spring-blooming bitter vetch), Omphalodes verms (a creeper with flowers like the forget-me-not), the dwarf wood sorre), the creeping cup ower (Nierembergia), Lychnis alpina, Lithospernum pratum, Erica camea (the winter flowering heatth) the rock strawberry (Fragaria), the rock geranium or Crane's hill, the Hawkwood, dwarf-irises, Lamium maculatum (varlegated foliage), all form admirable rockery subjects from which to make a selection, and many of the hardier ferns, such as Scolopendriums, spleenworts, and polypodiums, can be interspersed with effect in shady crevices.

Rockes—Free flowering and hardy herbaccous

with effect in shady crevices.

Rocket.—Free flowering and hardy herbaccous plants, annual, blennial, or perennial in duration, and very sweetly scented. Will flourish in any good soil, and are easily propagated, the annuals from seed, and others by division. There are double and single sorts, mostly with white or purple bloom.

Room Plants. (See Indoor Decorative

Plants.)

ROSES.—Hybrid perpetual roses, growing on their own roots in bed or border, form the most considerable section of the "Queen of Flowers" cultivated in our section of the "Queen of Flowers" cultivated in our gardens. The treatment necessary to make the best of them applies, with slight variation, to all the other classes of outdoor roses. The soil should be deeply dug and richly manured, and the planting may take place at any time during propitious weather after leaf-shedding and before the huds begin to swell in April. place at any time during propitious weather after leaf-shedding and before the buds begin to swell in April. Any damaged root terminals should be trimmed off with a sharp knife, the root masses being then spread out wide, and covered with fine soil in a sufficiently large hole and pressed firmily. Fill up the surface and tread well all round, then give a good soaking to settle the mould in place. Standards budded on a stock should be given a stake for support. Fruning must be practised with discrimination, standards having all weak growth eliminated and the strong outward-pointing shoots out back to four or five eyes fix April, in each case the centre being left open, while own root races should have the thick vigorous new stems pruned to good buds and the thinner growth either removed entirely or shortened to a single bud, leaving no one shoot to cross another. It is better to prune a little late than too early, so that the new growth may not be nipped by severe spring frosts. In climbing-froses the long-ripe shoots may be pruned very much less drastically, and trained to wall or trellis with but a short length at the end removed, just before the buds begin to break. For all outdoor roses, plentiful root mulching with rich but well rotted manure to be washed down by rain or artificial watering is good. The staple of the soil should be strong loam. The Provence, Cabbage, Austrian and other summer blooming roses, including the favourite moss section and striped varieties such as the old York and Lancaster, flourish best in an open situation and not too stiff but

deep and rich soil. The hybrid perpetuals should never be too closely placed together, nor have their growing plot infringed upon by other garden stuit. These are whites, yellows, all shades of blush and pink to scated and deep dark crimson to choose from, and every gain unseryman catalogues the best varieties in each gradation of colour. China and monthly roses, either in beds or on walls, require a little protection in winter, which may be given by a covering of ashes at the roots. The Alpines, open petalled and generally semi-double are almost thornless. The Bourbous mass well and bloom grandly in autumn, and some sorts, such as Souvenir de Malmaison, are so desirable that they should be in evidence wherever room can be found for them. Gloire de Dijon and others of the exquisite tea-scented section ought also to be in every round for their Cooke and the Sidon and Contast of the exquisite tea-scented section ought also to be in every collection, and amongst those most employed for wall decoration mention may be made of the coppery Noisette, William Allen Richardson, the white Almee Vibert, the pale rose Madame Auguste Perrin, Devoniensis, General Jaqueminot, and the Maréchal Niel, which should have a sheltered southern aspect. Any Nel, which should have a sheltered southernaspect. Any of the choicer roses do well as pot subjects in a cool greenhouse, and some of the climbers are useful for pillar decorations under cover. The white, red, and wellow Enksian and Ayrshire roses are splendid and floriferos ramblers. The dwarf polyacthus roses are present to subjects for window furnishing, sany of them, and the climbing kinds, such as the Crimson Rambler, make a rich display. The Austrian Brars, 'ingle and semi-double, are particularly attractive when nicely grown, and the same remark applies to the evergreen climbers, Princess Mane (milk), Félicitée: Penètue (white), and the Garland, whose clustering, nankernychier, benefit of the commoner kinds of sweet briar are bright, showy, and a 'ways pleasing, and Lord Penzance's hybrids compel admiration wherever introduced, their rith being most decorative after the flowering is done. fruit being most decorative after the flowering is done.
They need but little pruning. Roses are propagated by cuttings from suckers and by budding. Cuttings should be taken from shoots made in late autumn, with They need but little pruning. Roses are propagated by cuttings from suckers and by budding. Cuttings should be taken from shoots made in late autumn, with a small portion of the preceding year's wood attached, and struck in sandy soil in the open. Suckers are easily removed and transplanted. Budding, to succeed, is an art best acquired from demonstration by a gardenor. Green fly should be removed by syringing or the application of insocticide immediately upon it appearance, whether on indoor roses or those of the open, and the "Rose Maggot," or larva of the leaf-rolling moth, must be looked out for and destroyed before it can effect mischief. Middew sometimes gives trouble, when sulphur dusting should be resorted to whilst the foliage is moist.

**Salpigossis.**—This is a curious half-hardy annual carrying petunia-like flowers, richly pencilled. It blooms in August, and reaches a height of 10 to 2 feet. Sow in heat in March, potting off the seedlings singly and protecting them until the bedding out period—early in June—or they may be transferred to larger posts for conservatory or indoor decoration. The flowers are splendid for cutting. The plants like a sunny situation and very rich soil. Some of the varieties of salpiglossis have creamy-white flowers, well of the protection of the varieties of salpiglossis have creamy-white flowers, which god; others are velvety crimson, gdd pencilled, and there is considerable variety.

**Salvia.**—Half hardy perennials for greenhouse flowering or ornamental summer bedding. They make pretty plants, and carry very bright blue or scarlet blossom. They want winter protection, and cuttings or seed must be started in heat.

**Salpigaria.**—Sapasria calabrica is an invaluable supportar.**—Sapasria calabrica is a ninvaluable to rockery work.

**Salvia.**—Sapasria calabrica is an invaluable to with the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the pro

the Rock Sospwort, as a trainer and a personnel, support of for rockery work.

Baxifrage.—Hardy plants, mainly perennial, very sultable for town gardens and rockery decoration.

"London Pride" (Saxifraga umbrosa) is good for edging, especially in moist positions, and always looks pretty, especially when its light branching blossom is thrust up. The thick-leaved Saxifrage, or "Sow' Ber." is coarser but very utilitarian as a clother of barren soil, and the mossy varieties, Camposil, and the turbed Caspitosa are most decorative. The curiously encusted saxifrages require a sunny and dry situation, and longifolia and Macnifana are much in vogue as popiants because of their handsome bloom spikes. All these can be readily propagated by cuttings carrying root growth, and the distinctive Saxifraga samentosa, which is so great a favourite for hanging-baskets, and is commonly called the "Creeping Sailor" or "mother of thousands," increases by rooting runners, like the strawberry. strawberry.

strawberry.

Scablous.—This is a sweet old garden subject, always welcome either in the annual or perennial form, and is often called the "pincushion flower." Its familiar stamen-studded discs of bloom, lavender, rose, blue, purple, and sulphury white, are very useful for cutting. Some species grow wild in the cornfields, and atropurea, sometimes styled "the Mournful Widow," is a deep-hued and handsome cultivated favourite. Another popular scabious is arvensis, "the Gipsies Rose" (blue), white and crimson, King, and the pure white Snowball, comparatively recent evolutions of the forist, find many admirers. The annuals grow freely from seed, and the perennials are propagated by division.

Schizanthus.—Half-hardy annual, which may be

by division.

Schizanthus.—Half-liardy annual, which may be adapted to pot culture or for border growth in good rich soil. The pecular shape of its pretty, varicoloured bloom has procured for it the popular names of "Fringe Flower" and "Butterfly Flower." Sown in autumn, it will come out in the greenhouse in the following return solution.

following spring early.

Schizopetalon.—Useful flowering annual, almond scented, twelve muches.

**Schizostylis coccinea.**—A late autumn flowering perennial, throwing up spikes of brilliant scarlet bloom, which may be protected by shelter for winter

cutting.

Salla.—The wild hyacinth, or "Azured harebell,"
cultivated varieties of the bluebell, are employed with
effect in the garden for spring blooming. Bitola has
white and rose as well as blue flowering forms, and
Sibirica comes amongst the very earliest of outdoor
flowering bulbs. Planted in autumn, and top-dressed
in succeeding seasons, they will stand and bloom well
for years. Scilla maritum, a Mediterranean member
of this genus, supplies the Squill so much employed in
medicine. medicine.

Soutellaria. orientalis.—The "Skull-cap," a hardy, flat-growing little subject, with hiac and yellow flowers, good for border edging and rockery culti-

flowers, good for border edging and rockery cultivation.

Sea Lawender.—The great Sea Lavender (Statice Latfolla), with its graceful light blue "Everiaring" blossoms borne in spreading panucles, makes a splendid border subject if cultivated in a sunny position. May be propagated by division in spring. There are pink and white varieties

Sedum.—The Stonecrop, and its congeners, an extensive family (chiefly perennial), of thickleaved and spreading growth, many of them bearing flowers profusely, white, pink-for velow, handsome, having brown, purple, or mealy-white foliage. Amongst the best of rockery subjects. The variety Virens monstrosum is the curious cocksomin-headed sedum, whilst the variegated Sieboldi makes a good hanging basked lant. They will all grow well in shallow soil on rockeries or in pots in the strongest sunshine, and increase by division.

Seed and Seed Sowing.—Seed of all sorts should be good; that is, it should retain the fullest vitality, and therefore care should be taken to obtain it from a reliable source. Generally speaking, it is better to sow seed of the preceding season's growth, properly harvested and preserved, and this is the condition in which it usually comes to hand in packets from reputable vendors. If kept over to a second season seed ought to be stored as much out of the reach of damp and atmospheric action as possible. In

sowing, a good maxim is not to bury the seed further below the surface than twice its own thickness, though large and bulky seed may go down deeper by comparison. Fine seed like that of the auricule should be thinly distributed over an even, firm surface, and dusted with minute particles of covering soil; that a little larger in shallow drills, the ridges of which are afterwards to be gently replaced so as to make all level. The mould ought never to be pasty or slicky to receive seed, but crumbly or friable; therefore for outdoor sowing a dry still day is preferable, especially if this be succeeded by gentle rain. As to season and position chosen, both must be according to the variant requirements, so that the tender seedlings suffer no avoidable hurt from inclemency. Indoor sowing should be done in particularly well-drained pots or boxes of light and finely sifted soil which admits of the free passage of any moliture. or moisture

Seedlings, Treatment of.—The tender seed leaves of every subject call for protection from insectatacks, from the voracity of slugs, and also from an excess of aerial heat. The great thing in managing seedlings is never to permit them to receive a check. seedlings is never to permit them to receive a check. It is often essential to secure germination by placing the seedlings of the seedlings of the seedlings of the seedlings of the seedlings of the seedlings, chill being guarded against. Directly transplantation becomes necessary it should be proceeded with, the young plants being most carefully lifted, with as little root disturbance as possible, and pricked out into new quarters, whether in post or boxes of properly prepared mould or nurvery beds, allowing sufficient room for the next stage of development. Then shift on and on, coaxing the youngings into the perfect plant by the provision of increased nutriment and additional exposure to the atmospheric conditions most suited to its special case, doing wereything intelligently and accord-

posure to the atmospheric conditions most suited to its special case, doing worything intelligently and according to ascertained good practice.

Shrubs and the Shrubberg,—Besides Rhododendrons and laurels of various descriptions, there is a great diversity of suitable subjects for the furnishing of ornamental shrubberies in town and country, both dendrons and laurels of various descriptions, there is a great diversity of suitable subjects for the furnishing of ornamental shrubberies in town and country, both amongst deciduous and evergreen species, while many bearing beautiful blossom are obtainable at any well-stacked nursery. There is the Pieris or Andromeda, of which the variety floribunds shows a wealth of white flowers not unlike Lilies of the Valley in March. Soil that would suit the Rhododendron does nicely for it, but good sandy loam without any peaty admixture will serve, if a sunny and open position be allotted. The Laurustinus or Vibrutum comes in, so do the Euonymuses, Box, Berberry, Aucuba, the golden-leaved Thuya or Arbor vites, the tender green Cryptomeria Japonica, the variegated Cypresses or Retinospora, the Lilacs, the cream-white Filaged Taxus, the Guelder Rose, the Strawberry tree (Arbutus Unedo), the Tree of Heaven (Alanthus glandluosus) and the bold Paulowns Imperialis, which latter requires pruning hard back, antumnally, almost to the ground, to socure the best after-effect. Other useful shrubs are the flowering Currants, the Jew's Mallow (Kerria japonica), many decorative hollies and dwarf Coniferae, the orange-berried Cotonosater, the double Gore, the privett, the Showberry (Symphoricarpus racemosus), the larger Vetonicas, the feathery-leaved Tamarisks, the sweet Bay, the white-flowered Escallonia, the Rosemary, the metallic looking and prickly foliaged Mahonia, the bright and smoke-resisting Olearias, the Mock Orange (Philadelphus coronarius), the California, the Mock Orange (Philadelphus coronarius), the California, the Mock Orange (Philadelphus coronarius), the Salinus willow of Crange (Philadelphus coronarius), the service of the best), the harter for the natural habitat furnishes the best grude, but in most cases good garden mood Garrya, the rosemary, the mentioned. They require varied factored to the mentioned. They require varied factored to service the natural habitat furnishes the best grade, but in most cases good gard

many who have at their disposal banks and front gardens not occupied by small perennials or bedding plants. A great argument in favour of shrubs in ornamental horticulture is the little trouble most of them entail after discriminating plantation.

Silene Pendula.—Rosy pink border annual, one foot, good for growing on a rockery. There are double and single sorts.

Sluga. (See Peats of the Garden.)

Snapdragon. (See Antirrhinum.)

Snapdragon. (See Antirrhinum.)

Snapdragon. (See Antirrhinum.)

Snapdragon. (See Antirrhinum.)

Snowdropp.—These sweet little spring blooming bulbs are best planted in October, though they may be put out later at the expense of retarded flowering. They delight in shady and peaty loam, and should be two inches underground, one inch apart, and subjected to me after disturbance, which explains why they fourish in a grass plot. There are autumn flowering as well as spring snowdrops, which should be planted as early in the year as procurable. Elwesii (the Glant Snowdrop) is a spring bloomer and does well in a pot, for indoor decoration, if given plenty of air.

Boll.—Suitable soil, matured as to its components: each containing the full quota of nutritive qualities, is very necessary to gardening success, both out of doors and as regards pot culture. Spent or soured soil, or soil otherwise out of condition, is worse than useloss in horiculture. Therefore let there be, imprints, prudent provision of essential ingredients, and a free paragazent on cooles and compough and by the variant peads of plants is the elementary consideration which the annateur requires to get a matery of. In practice he should have at hand as much as he will want of good fibrous loam, secured, if possible by the stacking, root side uppermost, for six months, or until all vegetable life be dead, of closely shaven mellow pasture turves. Portions of the stack can be broken up and passed through a course or fine sieves as and when requisite, eliminating simultaneously any discoverable insectivorous germs, which may lave obt rotted vegetable matter of almost any character will furnish the indispensable leaf soil, though will furnish the indispensable leaf soil, though of course, leaf sweepings, pure and simple, are best When decomposition has become complete in fine heap, any convenient quantity may be removed to the potting shed to dry and facilitate handling. But, procured from a common, and matured by heaping in an airy place where moss growth receives no encouragement, or purchased prepared for use, is another equisite. River sand, washed free of all other than silicate, must be provided. It may be sharp and coarse, or fine and smooth—as the silver or Calais sand so useful in the germination of seed or cutting-striking. Clean road drift furnishes valuable material for the gardener's service. Manure should be prepared by throwing short stable litter into a light pile and turning occasionally in the sun to sweeten it. That containing the excrete of cows should be kept separate from throwing short stable litter into a light pile and turning occasionally in the sun to sweeten it. That containing the excreta of cows should be kept separate from collections of horse-droppings. The former may be made ready for immediate use by charring, while horse manure is in the best condition for incorporation with garden soil after having done duty in a hotbed. Wood ashes, or the residuum of a honfire of garden rubbih, possess fertilising properties of some potentiality and importance for the enrichment of mould, and decayed organic animal substances all have greater or less manural value according to the amount and character of the phosphafes and alkaline salts they contain. Burnt clay and mar can also be advantageously employed in horticulture, while lime dressing lightens and mellows heavy land materially. To keep garden soil at its best there must be systematic digging, forking, and turning over, in order to promote seration, drainage, and pulverisation, and composts used for pot plant culture should be cast away or worked in after impovershment with stiff outdoor soil, to the lightening and consequent improvement of the bed or border earth. earth.

kun. Solanum. (See Egg Plant.) Solomon's Seal. (See Polygonatum.) Sphagnum.—A moisture-absorbing moss obtained

from bogs and swamps, and employed in horticulture as soil for tree-growing orthics. Useful also for lying, after saturation, over seedpeans to keep the germinating seed damp and dark.

Spirsas.—A genus of shrubby and mainly perennial marsh plants of which the wild "Meadow Sweet" is an example. Carries feathery spikes of very decorative bloom. Spirsas isponics, the familiar white conservatory sort, is grown in great quantity by the market gardeners for indoor decoration, in winter and any joring. The Spirsas thrive in well-frained, sandy loam, mingled with leaf soil, and are propagated by root division. In the growing and flowering period, Spirsas must have copious and floquent watering of the provided of the control of the control of the pretty habit and adaptability to the conservatory. Spiring Flowaring Plants.—Spring blooming plants are a great desideratum in a garden, and every effort ought to be made to have a good show in the borders as early as possible. Therefore secure a supply of anemones, aubretias, arabis, hardy winter flowering cyclamens, snowdrops, violets, crouses, cowsips, Lent lilles, primroses, scillas, or snow glories. The exquisite little winter and spring frises, the star of Bethlehem, spring anowfakes (Leucujum vernum), and other hardy ground flowers should be secured. A piece of Jasmium mudiflorum, with its bright yellow flowers borne on the naked branch, should be secured for garden wall or trellis, too. All these and many more may be provided by planting at the proper time, and by no means should the codorierous wall-flower, in the with wind proper time, and by no means should the codorierous wall-flower, in the with which hair-like, segmental leaves, familiarly styled "Old Man," "Lad's love," or "Lad love lass." Secured the first provided to the fact of its generally coming into the potential provided to the fact of its generally coming into the potential provided to the fact of its generally coming into bloom at the age indicated, "There are many colours of this, all beautiful, doubl

dry weather.

The Stove.—This is a structure which scarcely The Stove.—This is a structure which scarcely comes within our present scope, adapted for heating to the temperature suitable for the cultivation of tropical plants. A small hothouse of the "stove" description, is, however, a very valuable thing in any garden, as its serves admirably for the propagation of many tender and beautiful subjects, which will grow in the greenhouse or bedeck conservatory when they have attained perfection, as well as permitting one to bring on gorgecus variegated subjects like the Croton, the Maranta, and the Alocasia, or choice blooming plants, such as the Alamanda, the Dipladenia, the Clerodendron, and the waxy Hoyas, Anthuriums, Pitcher plants, and many of the sinest equatorial orchida. There also may be grown in the shade some beautiful fern forms, to whose healthy existence a heavy moist atmosphere is essential, as for instance—to take differing types—the gold and sliver Gymnogrammes, the Hymenophyllums, and all the more lovely tribes (especially when young) of tropical and sub-tropical tree ferns. In even the smallest stove to ensure any measure of success there should be a tank fixed over the flue or hot water pipes, which furnish the requisite heat to the house, this tank from the warmed water it contains giving off something like the humidity that plants from a dense African or mid-American forest insuriate in. By placing a pierced cover over this you will provide simultaneously permanent bottom heat which may be utilised for all sorts of propagatory and forcing purposes. Such a house can be constructed leax-pensively, for it may advantageously be half sunk in the ground so long as provision be made to keep the stokehole outside free from flooding in wet weather. It must have efficient ventilating arrangements, particularly overhead, and should be span-toofed in the stokehole outside free from flooding in wet weather. It must have efficient wentilating arrangements, particularly overhead, and should be span-toofed instruction the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating from the direct glare of sutmer, whilst the heating and the sundaline, with mean of receive and the principles aketched

Bunflowers.—The Sunflowers include Helianthuses and Harpaliums, the former genus containing the tall and imposing subjects, with their great yellow discs of bloom, which are so conspleuous in many garden in the autumn, the latter comprising numerous varleties of dwarf flowering plants, almost black at the centre, yellow edged and stamened. All are easy of roum and a rich soil to come to their best. They should be sown in April in front of the shrubbery or where they are to stand anywhere. The Harpaliums are perennial and should be so treated. There is a double Harpalium which comes in nicely for cutting. Sun Plants. (See Portulaca).

where they are to stand anywhere. The Harpalium are perennial and should be so treated. There is a double Harpalium which comes in nicely for cutting.

Sun Plant. (See Rose.)

Sweet Briar. (See Rose.)

Sweet Briar. (See Rose.)

Sweet Pea.—Sweet peas, of which there is now endless variety, all of very great attractiveness, should be sown in good soil, in March or April in a sheltered position out of doors, or in pots in a cold frame in February to be hardened for an early start in the borders. These should be planted out with great care, not breaking the ball or injuring the running root, and pressed in firmly. There are dwarfs that make beautiful shrubby bedders, besides medium and tail growing climbers of every hue, selfs and vari-coloured. The latter should be staked soon after planting or trained up trelliess, as the bine lengthens, and given a sunny position, with plenty of watering. They may be pegged down as traders also with effect. Flower cutting should be constant, as this prolongs the blooming period materially, by preventing seeding, and plenty of room should be allowed for the development of the full beauty of this engaging garden subject. The Eckford variety and some others of the more recently introduced sweet peas of the forbsts, foreign as well as Brittsh, are exquisite as to delicacy and shading and flower size and richness of aroma, and the culture of a selection of the most distinctive descriptions should be entered upon by every possessor of a garden. They entail but little trouble if the soil be well prepared and worked before the sowing, and the support supplied be suitable, and no summer flower gives greater satisfaction and is brighter and more accognable than the universal popular Sweet Pea. The pearnnial Section is referred to under the botanical same of the genus, Lathyrus.

Sueset William,—A free flowering border perennial of much beauty and diversity of coloration, embacing many varieties of Dianthus barbatus. They should be sown in well-tilled beds of anriched soil in

June, and the seedlings pricked off as soon as large enough. Sweet Williams deteriorate greatly after the second season, and should be renewed from seed, or increased by off-sets. The auricula-eyed varieties bear immense heads of bloom, in which the individual flowers, white in the centre and edged with rich hues of crimson and other shades of red, are large and handsome. A good lookout should be kept for the "Leather Jacket" grub, which is very fond of eating through the stems of Sweet Williams just under the surface, and if not caught and killed will soon work devastation among and ultimately destroy the most promissing plants. promising plants.

promising plants.

Syringa. (Se Lilac.)

Thrift.—Armeria lauchcana, the plak Thrift, is a splendid dwarf edging or rockery plant, delighting in splendid dwarf edging or rockery plant, delighting in a sunny position, and fourishing in good loamy soil. The variety Vulgaris alba, with white flowers, is neat and dense-growing, while Cephalotes, the Glant Thrift, is very useful for cutting. Increase by division, planting firmly singry or in rows.

Thuja.—The Arbor vitze, a very decorative shrubery subject, good also for growing in little beds or lawns, will flourish in fibrous loam, and the variety Aurea variegata is especially effective. Should be transplanted in April.

lawns, will flourish in fibrous loam, and the variety Aurea varienta is especially effective. Should be transplanted in April.

Tobacoo Plant.—Nicotiana affinis, of deliclous odour in the evening, is a fine subject either for the greenhouse or outdoor culture, and should be raised from seed sown in February or March in gentle heat, the seedlings being transplanted into rule sandy soil and gradually hardened if intended for bedding. It spreads and branches freely, if kept well watered, making immense fleshy leaves under stimulation, and carrying pretty white tubular biossom of greenish tinge on the exterior. When the plants die down in the autumn they may be covered with ashes, when many of them will spring into growth again the following season, as the Nicotiana is, properly speaking, a half-hardy perennial. The variety Macrophylla gigantea is patticularly large as to foliage, and sends up long flower spikes of a purplish shide, while there are some pink sorts; but the white type is the most generally useful and sweetly perfuned. It seeds readily in the border, and young plants coming up in symmer hear moving

are some pilk sorts; but the white type is the most generally useful and sweetly perfuned. It seeds readily in the border, and young plants coming up in symmer hear moving

"Tools.—There is an infuilty of garden tools and implements in the market, all of them more or less useful. Lut most of them destrable and indispersable. What are indispensable are the digging-fork, the spade, the rake, the trowel, the watering-pot whispout and ross;, the slewer, the Dutch hoo a pair of the tender of the spade, the rake, the trowel, the watering-pot will be done without. The man with a greenhouse or even a hotbod will need a thermometer and a syringe, while done without. The man with a greenhouse or even a hotbod will need a thermometer and a syringe, while agood graden hose will save an infinity of trouble wherever a good force of water is obtainable from the rake may be manipulated so as to perform its work where one is not available. "A good workman," says the adage, "is independent of his tools," and this applies in the garden. The man will roally loves horficulture may obtain the best results by the employment of a very few simple implements, where the potterer will fail though he should purchase the entire complicated stock of a vendor of so-called "garden requisites."

Trachelium oceruleum.—A good border or rockwork blennial, bearing pretty blue flowers.

Tradescantia.—A getus of perennial trailers, containing varieties suitable for ornamental baskets in the window or conservatory, or for greenhouse coulture, with leaves sometimes prettily striped, produced on long and gracefully pendant growth, also some of a sufficiently hardy nature for rumner bedding. The form most soil, and root readily iron cut a fail to form and the propagate of the sides of vases or pots in the winter garden.

Tradescantia.—It green a fail and the winter garden. The green of the form of Tradescantia. The green of the form of the form as a good green or variegated subject for hanging over the sides of vases or pots in the winter garden.

Trees (Ornamental).—The Labumum is a very

effective ornamental tree for even small town gardens, its racemes of yellow biosom being particularly effective in spring, and the Acaclas come within the same category. Some of the purple birches, the variegated maple, the weeping ashes and willows, the All Saints Cherry, the Siberian pea tree (Caragona arborescens pendula), many of the Conifers, the Japanese Sophora, the white beam (Pyrus aria), the double and single scarlet and pink hawthorns, and the flowering almonds (Amygdalus), are good subjects for breaking up the monotony of low growth in a garden, and all of them may readily be established by autumnal planting in deeply dry soil. Vigorous aspings of all the arboreal species mentioned are procurable at most nurseries at prices from a shilling or less upwards, according to size.

Tritoma. (See Red Hot Poker Plant.)
Trampsolium.—These elegant climbers, with which may be included for the purpose of convenience all the hardy annuals, Nasturtiums whether tall or dwarf growing, are easy of cultivation and profuse effective ornamental tree for even small town gardens,

all the hardy annuals, Nasturtiums whether tail of dwarf growing, are easy of cultivation and profuse flowering. Their brilliance of colouring is untranscended, and given proper soil, which should be rich and sandy, they occasion little trouble. In the greenhouse they may be trained up cance or to the rafters, or allowed to hang over the sides of suspended pots. nouse they may he trained up cantes or to the raters or allowed to hang over the sides of suspended pots. Nothing need be said as to how to grow the common Assturtium. It grows itself wherever it has once been introduced, but the choice species, both single and double, shou die sown in heat and carefully hardened when intended for pot bloon out of doors, and they require frequent watering. Tropecolum canarienses, the Canary Creeper, is a pretty and very distinct climber, which may be sown and grown in window boxes or on the border as well as in the greenhouse the tuberous-rooted Tropecolum azurium, bearing blue flowers, will not stand outdoor treatment, but succeeds well in a warm greenhouse, as does Tropecolum tricolorum, scarlet and black-tipped.

Tuberouse.—This is a white-flowered and odoriferous bulbous-rooted plant of Indian origination, which should be started in sandy loam in a frame over gentle heat in January, giving each bulb a very small pot test, and giving no water till growth commences, and

neat in January, giving each buto a very small pot to itself, and giving no water till growth commences, and then but a very little, plunging the pots to the rim. Repot into larger sized (say 3 to 4 inch) pots when the roots show through the drainage hole, then plunge again until the flower spikes show, when the plants may be placed in the greenhouse or conservatory to bloom, where they last long and exhale a delightful

perfume.

Tulip.—Good old mellow loam, perfectly free from any insect life in any form, should be employed for tulip culture Inside and out, all stones being carefully sifted out. The best time for planting the bulbs outdoors is from mid-October to mid-November, and the beds should be well drained. Press the bulbs in on a beds should be well drained. Press the bulbs in on a good layer of the prepared loam, six inches apart, then cover to a depth of about three inches of soil. In taking up the bulbs after blooming for storing until the following season, allow the leaves to turn yellow first, and dry the bulbs in paper bags in the air and sun before putting away. There are singles, doubles, and semi-doubles, some of the former, including the early-blooming Duc van Thot description, being particularly handsome. These are well suited for pot culture, and they may be grounded effectively in large pots. They olooming Luc van Hool description, been particularly handsome. These are well suited for pot culture, and they may be grouped effectively in large pots. They require plentiful watering when blooming, and must be shaded from the sun if the rich coloration is to be prevented from deterioration. The parrot tulips, large and showy, are grand for out-of-door culture. The summer (or May-flowering) tulips comprise most of the handsome selfs, and will stand from year to year in a suitable border. They are tall and sturdy of growth, and require rather more room individually than suffices for the earlier sorts.

Yallots.—The Scarborough Lily, a handsome bulbous subject for greenhouse culture, requiring rich, sandy loam with a peat and old mortar admixture, and large deep pots to develop in properly. Plant six inches deep at midsummer, and do not water after first settling the soil, which should be well drained, until growth commences, when weak liquid manure may be occasionally administered.

Terbana.—One of the bast of bedding plants, possessing much variety, readily raised from seed or from cuttings, while peging down the grow with recording to the from cuttings, while peging down the grow with accorded to the petunia will succeed for manacorded to the petunia will succeed for the activation and sand amalgam. Young plants in the cold frame should be hardened off for transfer to the flower beds in late May, and pegging down after growth be well begun out of doors will induce new shoots and protracted blooming. What is commonly called the "Scented Verbena" is a plant botanically known as Lippla citradora. It makes a very good greenhouse pot plant, the leaves emitting pleasing perfume on handling. The common verbane, or "Holy Herb," and the wild laysoop both belong to the true verbena family.

family.

Waronica.—The evergreen speedwells are grand autumn bloomers for garden or greenhouse, and will flower all through the early months of winter if late planted, while the annual Veronicas (of which the little Germander Speedwell, or "God's eye," is an indigenous British variety) are invaluable for spring blooming. For early slow these should be sown in autumn, and the tailer growing perennal sorts, with handsome white, mauve, or purple flower spikes, propagate either by root division or cuttings, and should be planted out in spring.

Wiburnum. (See Guelder Rose and Laurus-tinus.)

tinus.)

Viburnum. (See quester Ross and Leaurustinus.)
Vinca. (See Periwinkle.)
Vinca. (See Periwinkle.)
Vinca. This genus includes all the pansies dealt
with elsewhere, but the same is generally taken to
signify the "tufted" bedding species so floriferous
and so suited for ribboning in summer borders. Their
proper cultivation is similar to that which the showler
pansies succeed under, and there is a great variety of
flower colour from white to plum coloured, with many
shades of mauve, lavender and blue between, as well
as numerous gradations of yellow. A good topdressing of short manure or rich leaf soil after planting
out and frequent watering at the roots, will be found very
helpful. They seed prolifically, and can be increased
readily from cuttings. The pretty little viola cornuta
is a good outdoor edging subject skil, despite the
attractions of its more recent rivals. Neapolitan,
Russian, and other imposing varieties of ordorous violas
care readily grown and forced in greenhouses, if it be
borne in mind that they are shade lovers.
Waliflowers.—The hardy Cheinanhus holds its
own, and always will, amongst spring blooming
formunities of the careful. It is well worthy of such

bome in mind that they are shade lovers.

Walifowers.—The hardy Cheiranthus holds its own, and always will, amongst spring blooming favouries of the garden. It is well worthy of such constant suffrage, for its culture calls for little care, and its odour and rich coloration are ever pleasing. From the light straw of the old type to blood red, with much striping, splashing, and intermingling of the browns, we have wallflowers galore, both single and double, the latter being increased by cuttings, and all the rest from seed, which will grow anywhere. Seedings should be transplanted early. The wallflower likes a light soil containing old mortar.

Watering.—The watering of plants in pots in the house or greenhouse should be regulated by the real need of each individual subject for the tlue being, moisture being gently and thoroughly renewed when a dry condition has been arrived at. This can be accertained by examination, and tapping of the pot is a good guide. A dull heavy sound as the resultant of this will indicate that there is no drought within, and it is a very great mistake to overwater, which is apter to injure a plant than dryness, which can readily be corrected. Effect as little disturbance on administering water as possible, and this can be obviated by corrected. Effect as little disturbance on administering water as possible, and this can be obviated by
standing a thirsty subject in a pall or tub until the
water reaches a shade above the rim, lettling it absorb
as much as it can, and then replacing it on its shelf-after
draining. As a rule plants want comparatively little
watering save in the growing or blooming period; they
must have their rest time like other living things. Let
this always be remembered. Outdoor watering must
be governed by the state of the weather and the
condition of the plants.

Weeds.—Weeds should be eradicated immediately

on their appearance, remembering the proverb "ill weeds grow apace." Not only are they always unsightly in the garden, but they rob the plants under culture of necessary sustemance most seriously if permitted to remain. Hand pulling after showers is an effective method of weed-destruction, for then the roots are readily and completely withdrawn, and the boe should be kept actively employed on the surface of borders in the sunshine, as this kills the uninvited vegetation at the most vulnerable stage, besides doing the legitimate occupants of the soil a great deal of good by promoting the filtration of air and moistuse to the roots. Vitriolic or other corrosive acid applications properly diluted may be employed for stooning the the roots. Vitriolic or other corrosive acid applications properly diluted may be employed for stopping the persistent growth of unsightly mossy weeds or grass on gravel walks which it is undesirable superficially to disturb, or even strong saline watering will often suffice, especially if done under a hot sun. Moss growths on the surface of soil in flower pots should be removed by stirring and dressing. It is usually an indication of inefficient drainage, in which case remove the cause

Whitlawia grandifiora.—The grandest intense blue of any outdoor annual (called also Placelia campanularia). It is a delicious dwarf six inches to a foot high, with satiny flowers like little gloxinias. See may be sown outdoors in March and April for summer may be sown outdoors in March and April for summer

Window Gardon.—Some sorts of plants may be grown inside or outside any window, if a proper selection be made either in pots or wardian cases indoors, or hosts or boxes exteriorly, protected or otherwise. The great thing is proper selection. Inside, the wardian case, or humbler bell-glass, are only requisite where hundlity is essential to the health of the subjects included, otherwise judicious shade and ventilation will suffice to keep a properly placed and properly potted plant fresh and heautiful for as long as it is desirable to sotain it in a room. A wardian case, fern case, or pot collection of any kind under glass in a parlour, should be planted by one who understands the subjects employed, and provision made for efficient dranage into an accessible bottom tray, charcoal being employed to facilitate filtration, for stagnation at the roots, employed, and provision made for emcient dramage into an accessible bottom tray, charcoal being employed to facilitate filtration, for stagnation at the roots, combined with an atmosphere more or less unnatural, will kill any delicate plant, or at any rate reduce it to an unsightly and sickly state. But many pretty ferms may stand within a north-looking window, without overhead cover, and flourish exceedingly for a lengthy period if carefully tended, and many more, as well as numerous ornamental-leaved and pretty flowering plants, in a window with a north-naspect. For windows facing the east the range or selection of suitable subjects is still wider, while the window fronting the sunny south will only give trouble in requiring shading to obviate the scorching of most plants placed either outside or directly within for display. Little aucubas, arbor vitas and clematises are amongst the plants which will adapt thenselves to the first position. For the second aspect camelius and begonias are suitable, so are trailing plants of "Creeping Jenny" and polemonium besides vincas and sempervivum, and snowdrops, narciss, and other spring blooming bulbs. Western window plants, and those which will flourish either there or to the south, need not be particularly specified, the range of choice is so large, but it may be well to hint that verbenas in pots, show pelargoniums, petunias, heliotropes, everlastings, uchesias, cockscombs, calceolarias, and cacti, always do best in parlours looking due south, and the same may be said of the cleander. In all cases there should be daily opening of the upper window sashes to let out "aught. There must be neither parching nor over-plants kept indoors will be better, for an occasional sponging to prevent dust from choking their porce plants kept indoors will be better, for an occasional sponging to prevent dust from choking their porce. Window boxes outside are a matter of taste as to construction, but it they be regarded as an ornamental sponging to prevent dust from choking their porce. to facilitate filtration, for stagnation at the roots, struction, but if they be regarded as an ornamental allinth, from which to rear a beautiful foral wall, a good deal will be set up. Let the box be faced with virgin cork or plain (not brightly coloured or gaudity figure tites, and left hollow within to receive plants in pots.

which may be removed and renewed restilly, and surrounded by ashes or fibre to keep them cool. Thus you will find your window gardening to be facilitated. You can train your climbers up the window sides, and let your trailers hang over as well from plunged pots as if they were stuffed into one box, the soil in which is liable to caking and souring, and you will be readily able to keep the roots of all the plants cool, each in its own best-liked compost. If you go in for a glazed protecting case or frame outside, you increase your range of employable floral subjects, and construct, in a sense, a ministure conservatory. If you do this do not omit to have the top light hinged to admit of efficient ventilation, and leave plenty of room for getting at the glass for cleaning everywhere. Those possessing available sunny windows, sheltered from wind, have thinged to the continuous forthing of making a satisfactory and continuous forthing of making a satisfactory and continuous forthing to the play, but discriminate selection of plants and judicious play, but discriminate selection for plants and judicious, and he who provides it pleases not only himself but every passer-by, and receives praise and blessing accordingly.

Winter Cherry.—A very ornamental perennial, which will crow under shade, and produce its pretty which will crow under shade, and produce its pretty

praise and blessing accordingly.

Winter Cherry.—A very ornamental perennial, which will grow under shade, and produce its pretty decorative fruit anywhere in good sandy soil. It makes an acceptable conservatory or parlour-window subject, and is largely grown by the market gardeners for dimer-table display.

Wisworms. (See Pests of the Garden.)

Wistaria.—A deciduous climber with pretty foliage, and handsome tassel-like flowers of purple, blue, or white colour, very sultable for a south wall. There is a double flowering variety, and one with variegated leaves, which resemble those of the ash in formation. The wistarn anay be increased by layering down shoots at midsummer, and these should be severed and transplanted in spring.

formation. The wistarna may be increased by layering down shoots at midsummer, and these should be severed and transplanted in spring. Worms.—Worms out of doors are good friends of the gardener, helping with the dramage and manuring of his borders materially, but they do some muschief in throwing unsightly upcasts on to grass lawns. Sweeping and rolling will remove this, and make a dressing for the grass, when the worm may be considered to have been the occasion of more good than harm. But worms in a flower-pot are most undesirable. They work through the dramage hole, work up to the top of the soil, and then drag down finely ground mould amongst the crocks, clogying all up and promoting stagnation, which kills. If a plant goes sickly, its leaves yellow, and the flower buds droop, while this coil is seemingly all right, knock that plant out of the pot, and if you find a big worm and some puddle at the bottom, lay the trouble to this plant out of the pot, and if you find a big worm and some puddle at the bottom. By the trouble to the intrusion worms, but worms does not all the pot of the pot, and most likely things will soon mend with the plant. Fot a stood out on ground are liable to the intrusion worms, but worm does not care to wriggle through them.

**Wown the manure.**—The annual "Frentsting" from the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the

since dates are not so much so, as the worm does not care to wriggle through them.

**Xeranthemum.**—The annual "Everlasting "from which "inmortelles" for wreath construction are made, a hardy annual, with purple or white flowers, requiring rich soil for its successful cultivation.

a hardy annual, with purple or white howers, requiring rich soil for its successful cultivation.

Yueon,—The sharp-pointed, sword-like leaved "Adam's Needle," some varieties of which are quite hardy enough to stand out of doors and endure the British winter. Yueoza like strong but sandy soil. Yueoza gloriosa recurrifolia has curling leaves; filamentosa (the "Silk Grass") is a distinctive and decorative description of Yueoza. They only flower occasionally in this country, white spikes tinged with green. Propagation by root division.

Zinnia.—Brilliant-flowered half-hardy annuals, good for border bedding or massing. Very free flowering and long lasting. Zinnia elegans has varieties with flowers in white and many colours, crimson, scarlet, roce, bronze, buff, iliac, and violet, some with double blossom. The seed of this should be sown in heat in early March, and the seedlings transplanted to make good stocky subjects for placing in the borders in June, the warmest situation possible being accorded them, and very well-enriched soil. The doubles make good pot plants. No British summer could be too hos for the Zinnia.

Elsyphus.—Fruit-bearing, evergreen shrubs, which mostly require greenhouse treatment in this country, and a compost of sandy peat and good fibrous leam. Sativus, or vulgaris, is known as the "lujube Tree." and another is especially interesting because of the supposition that from its spiny branches was formed

the crown of thorns worn by the Redeemer on the Cross of Calvary. Zisyphus vulgaris is sufficiently hardy for out-door planting in a sheltered place. These shrubs may be propagated by root cut-tings, or by striking slips of ripened wood under glass.

## THE KITCHEN GARDEN.

## General Hints on Vegetable Culture.

The choice of ground for kitchen gardening will be governed in a good measure by opportunity; but it should be as open and sunny as possible, and, if that can be managed, slope gently towards the south to facilitate surface drainage. Protection should be afforded against north wind by a wall or close fence, and where the vegetable ground is at the southern end of the flower garden—a very good position—a thick hedge of good height should be provided to act at once as a screen and a shelter. Holly and quick mingled do very well for this, the holly planted on the flower garden side for ornamentation sake, the quick to the south to complete the solidarity of the shelter. If the hedge be clipped pretty frequently its appearance and utility will both be of the saciter. If the nedge he chipped pretty requently its appearance and utnity will not be improved. In very exposed places where easterly winds are frequent a close hedge or low fence on that side of the kitchen garden is also desirable. On the south and west all the light, air and sun-heat obtainable are wanted, and this should be borne in mind when the positions of runner beans and tall rows of staked peas is determined upon. The former do very well in short rows at right angles with the north hedge, or, if one long row will suffice, parallel thereto, while the peas, being hardy, may run advantageously along ide the eastern fence, with room between to get to the eastern side of the row and work the hes gather the crop without touble, and permit get to the eastern side of the row and work the hoe, gather the crop without trouble, and permit the sun to shine down on to the roots. Position having been settled and the walks planned and made, preparation of the ground next demands attention. Perfect drainage, and the land in "good heart" are the things to be aimed at. Both can be accomplished by assiduous culture only, after a thoroughly sound beginning. A good time to start is late autumn, and trenching to a depth of a couple of feet is advised, to be repeated at least every third season, spade-deep digging being practised in the intervening years in the formation and preparation of the beds for the reception of the various vegetable plants, seeds or sets, as the case may be. The trenching should be complete, a thick covering of good manure being incorporated in the turning over of the soil, which must be left very rough for rain, frost, air and sun to work on, and may have a surface dressing of soot and salt, with sand also if the ground be particularly heavy. The subsoil if clayer should certainly not be brought to the top, but broken up and reserved at each spadeful, mixing therewith road refuse, the coarser components of the leaf-soil and manure heap, wood ashes or anything else suitable for enrichment and to assist free drainage. Light ground of good depth and loamy may be trenched from bottom to top. Forking over prior to settling the beds for planting will work in even all superficial fertilising dressings, but there should be avoidance of trampling down solid in getting the smooth surface requisite for seeding many subjects and the planting out of small stuff. Root growth should find easy passage through the ground, and be amenable to atmospheric action and equally permeable to rain. For the rest, the culture of vegetable subjects is indicated hereafter alphabetically.

Alexander.—Sometimes called Alisander, this old herb used at one time to be cultivated similarly to celery, and used medicinally, the stalks in scorbutic complaints, and the seeds and a decotion of the acrid root as a stomachic. Sown in rich, light soil in April and May, in drills from 2 to 3 feet apart, and thinned out to leave a foot between each plant in the row, and earthed up to blanch at a foot high.

Artichnore.—The Jerusalem is a suitable subject for growing alongside a fence, as it helps to form a screen for the garden in that position; the tubers should be planted in early spring time in rich and well-drained soil, 75 or 28 inches apart, and if there be more than one row it is best to have the rows sharily a yard from each other. They should be set 6 inches deep, and lifted for storage in autumn. The ground should then be well forked over, incorporating as much short and inches the possible, and, if stiff, lightened with an admittance of sand. When the tops have reached a foothigh, earth them up, potato fashion, and keep classified the subject of the stiff, lightened with an admittance of sand. When the tops have reached a foothigh, earth them up, potato fashion, and keep classified the subject of the stiff, and alt, the white-skinned "Mammoth" Jerusalem artichoke is far better and amoother than the tregular old purple sort.

The Globe artichoke is cultivated entirely for the sake of its immature flower heads. Sow in a hotbed in March, potting off the seedlings singly and hardening for planting out in June in groups of three or four, or increase by carefully transplanted offsets. Salt dressing is good for the artichoke. There are several serviceable varieties of the early purple artichoke, besides a number of the large green Paris section, and all bear best in their second and third seasons. The conical-headed French sort is the most esteemed in Britain, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian, while the Laon variety is very much in vogue in Farian the vogue in the search of the two two or three of the young shoots in each case, using offshoots to form a new plantistion.

Asparagus.—An asparagus bed should be from the vogue in the sarch to a depth of 3 feet, and throwing in at the bottom or subsoil broken by digging a considerable quantity of well-rotted dung, and incovering to very this a good deal of such that the proportion of sand should be intermingled with the next spit, leaving the top spit almost all sand, with a liberal amalgam of sait

pears' cyclopaedia.

and some soot. Put the plants in 6 inches deep in April, s. feet apart, running east and west, and when grewth has commenced dress with salt, using about a quarter of a pound to the square foot. Plants may be raised from seed in drills in the bed at the end of March, or elsewhere, for placing in the bed the second year, but the heads should not be cut until the third plants are the read of the second will time is an object roots two manusery. When the lest stake die in autium and the dead stoms are removed, spent hotbed manure may be laid over all, after forking between the rows with the digging fork without injury to the roots, and this and the summer sait dressing will be all that is requisite to keep a bed in good bearing for a number of years if it be made well out in the strong sunlight and the plants be put in originally 6 inches or so apart in the rows. Asparagus is good for cutting about when green peas begin to yield, and should not be gathered too freely, else it will run small. Always cut as near to the cooking time as possible to get the delicate finvour at its best. The pretty "grass" of the asparagus is very useful for bouquet garniture.

**Eubergine**—An edible variety of the Solanum, or Egg Plant, a half-hardy annual, extensively cultivated in Southern Europe. Sow in heat in April, prick out the seedlings singly into four-inch pots, well drained, using a compost of rich, sandy loam. Harden of gradually, and stand the pots in June in the sunshite, watering freely when growing and fruiting. The fruiting plants are very ornamental, especially the scarlet sort.

Balm.-A sweet-scented flowering herb, the leaves of which used to be in considerable demand for making

Balm.—A sweet-scented flowering herb, the leaves of which used to be in considerable demand for making a cooling drink, with a lemon-like flavour. Botanically called Melissa officinalis, the balm possesses very ornamental foliage, and flourishes in any ordinary garden soil. Propagated by root division in spring or autumn. Baall.—This herb is raised from seed in gentle heat in March. Thin out the seedlings, give air freely, and plant out in a warm border of rich light soil in early June. Bush basil is the hardiest variety.

Beans.—Broad or Windsor beans crop best in a strong, heavy soil, with plenty of good short manure worked in. If sown in October on the south side of ridges running east and west, about 3 to 4 inches apart, they will get the benefit of all available sun without being waterlogged when cold rains are frequent, and come into bearing early. Seed for succession may be sown similarly, but on the level, in drills, in January, drawing the earth up to the stems on dry days when the young plants are three to four inches light, applant which work at least between the rows, and broccoli or spinach may be planted midway between to make the most of the space. Care should be taken not to clod the ground by trampling overmuch in planting the seed, and a board may be used during the operation advantageously. Where high winds cut across the rows, a line of string may be stretched from end to end, the seeds having been put in zig-zag so that every socond plant-stem comes into contact with the supporting line on the cpposite side. stretched from end to end, the seeds having been put in zig-zag so that every second plant-stem comes into contact with the supporting line on the caposite side. Topping the stems after the beans are set is good practice, burning the shoots, as this not only defeats the black aphide so partial to the follage, but promotes pod filling. Early Long Pod is a good variety for first crop, the Broad Windsor, Green Windsor, Dutch Long Pod, and Leviathan being better for late successional sowing, which may be continued until towards the end of April. Runner beans should be grown in deep rich soil along-side a fence with a southerly or easterly aspect, or in the open in double rows 9 inches apart, with 9 inches also between each bean. Sow 2 inches deep on a good thickness, say 3 inches, of soil superimposed upon well-rotted manure laid upon a worked subsoil, in early May, or put out young plants raised in boxes from seed in a frame for mid-May starting in the graden. For climbing support, a double row of light poles should be stuck along the lines of runner plants, inclining towards each other and crossing towards the top, horizontal sticks being dropped into each junction and tied with tarred string to make all taut against in zig-zag so that every second plant-stem comes into

strong wind. Topping the shoots when the summit of the pole has been reached induces bushy fruiting growth. It is well to protect against possible late spring frosts a little at nights at first, and in September when the blue is in good bearing a lose night covering will often save the beans for a week or two of further when the blue is in good bearing a lose night covering will often save the beans for a week or two of the poles weakler. Pullanear cold snap come, followed by open weakler. Pullanear cold snap come, followed by open weakler. Pullanear cold snap come, followed by open weakler. Pullanear cold snap come, followed by open weakler. Pullanear cold snap come, followed by open weakler. Pullanear cold snap come, followed by open weakler. Pullanear cold snap cold bear may be year in mid-April in sunny positions or and the red and white Painted Lady, a very pretty variety, but less prolific as to pod production. Coplous root watering in warm weather, at night or early morning, is good for runner beans. Dwarf or French beans may be sown in mid-April in sunny positions or a little later where sun warmth does not reach so well, good rich loamy soil being provided, in rows a foot and a-half to a feet apart, the seeds being put r inch underground in batches of three, each batch being 9 inches to a foot from the next. When slug dangers are past, any more than one plant remaining in each batch may be eliminated, leaving only the strongest looking. Draw the soil towards the stems on either side as the plants grow, carrying the ridges as high as possible. Sir Joseph Paxton is one of the best of the earlier French beans. Capadian Wonder should be sown a little later, say in the beginning of May. A dressing of soot and fine line will retard the progress of snails and slugs, which are very fond of young bean shoots, while adjacently laid little heaps of brewers grains will attract them, when they may be caught by candle light, and killed in salted water. Manurial waterings at the root in the growing period will add to

inaricot beans the pods must be allowed to remain for the seed to ripen, but the faster the pods are gathered for cooking in the fresh state the longer the beans will continue in bearing.

Beach Turnip-rooted is the best of the early red beets so useful for sainding and pickling, and should be sown in the beginning of April in drills rather over a foot apart and a little less than an inch deep, thinning out to 8 inches apart. A bed in which previous cropping has taken place, and which was heavily manured, therefore, suits beet, the soil being light and well pulversed, but if this be inconvenient the ground should be dug out, trenched, and magured with well-decayed dung at the bottom. A light dressing over the bed when the plants are a few inches high will be of service, and weeds should be kept down. Red Castlenaudary, Dell's Crimson, and Cheltenham Greentop are good main crop sorts, and may be sown in the middle of May. White or spinach, grown for the tons, which are cooked spinach fashiou, should be sown in April and August, the latter sowing being for a winter supply. The leaf stalks and midribs of this species are sometimes stewed and eaten like seakale. There are yellow bects, not appreciated in the kitchen, and white sugar beets, not grown in English gardens. In lifting the roots in October great care should be taken not to bruise the skin or break off the tap root, and the leaves should be cut a good inch above the crown to prevent bleeding, which would spoll the colour of the root in boiling. They should be stored in a dry, frost-proof shed, laid on sand, with saud over each layer.

Borecoles.—Borecole, also called kale and winter greeks, belongs to the great Brassica family, and is cultivated for the leaves, which stand all but the severest frost, and for the sprouts in spring. The borecoles do not take so much out of the ground as cabbages, and may be planted after peas when the haulm has been cleared without further manuring, or may be put in between rows of potatoes or beans. Sow in a seed bed in Ap

everything save colour. Ragged Jack does very well in cold and exposed positions; variegated borecole is ornamental as well as useful; jerusalem and Egyptan kales are both excellent, and the latter very hardy. All the borecoles are the better for having the soil drawn up to the stalks as growth proceeds, and should be heed frequently, as stirring the ground surface is very benefical to the plants. The sprouts are good for use as long as their stalks will snap off easily.

Brocooli—Broccoli is a variety of the cauliflower, differing therefrom in having the flower stem longer and not so fessly, and head not so compact. It does not attain the size of the best cauliflowers, nor does it

differing therefrom in having the flower stem longer and not so fleshy, and head not so compact. It does not attain the size of the best cauliflowers, nor does it furnish such delicately flavoured eating. It needs good, rich, well-tilled soil, and should be sown under class in early spring for auturnal use, and in late May in the open to stand until the following spring. The broccoll is hardier of constitution than its congener the cauliflower, which it succeeds in cropping, and may be cut up to Christmas, and even later. Broccol may be planted firmly and about 2 feet apart, and when the flower is forming have a leaf or two broken over the head for protection, save in the varieties which cut their leaves in naturally. Early Purple Cape, Early White Watcherand, Autunn Glant, are among the best sorts for autumn and early winter cutting. For late winter and spring use the Pouzance, Learnington, and Purple Sprouting may be recommended, and for the latest supply Late White Protecting is good. Strains of these and numerous other descriptions are offered by all the seedmen. The young broccolis should be well watered after transplantation from the seed beds until established, and those standing the winter have their heads bent down facing northwards to check root action and render them less succulent during frost, besides facilitating shelter with dry litter or bracken when the weather is very severe. The spring varieties come in nost acceptable for the table at a time when the results is scanty.

able for the same as a time when the supply of the finer vegetables is scanty.

Brussell Sprouts.—A protracted growing season is essential to the maturing of these excellent vegetables, which belong, of course, to the Brassitass. March sowing in light soil in a cold frame, and transplantation into deeply-worked and well-enrached ground will produce stems a yard high covered with close spreuts produce stems a yard high covered with close sprouts to the extent sometimes of a peck a stalk. They should be planted in rows 2 feet asunder and cach plant a foot apart. Some cut off the heads as soon as the stems have arrived at the full height, so as to conserve all the strength of the plant for the perfection of the sprouts, others retain the head as an unbrella for the side-growth. The earliest sprouts come in for the table in November, and they continue to yield in inproving quality until Lady Day. It pays best to get good reliable seed of this and every other the vegetable, and this is assured by voing to a reputable vegetable, and this is assured by going to a reputable

firm.

Cabbage.—Cabbages proper have their inner leaves growing close to the strin, and each layer below lightly superimposed, green outer leaves blanching those within almost white at the heart. They and their allies prefer a loamy soil, well drained and well mannred, and can assimilate a lot of moisture in dry weather, and copious waterings of liquid manured during the growing period. For spring cabbage a sowing should be made in beds of friable mould during the weak of July the seed being placed in drills. the third week of July, the seed being placed in drills.

Transplant later to prepared ground 18 inches apart
and earth up to steady the stalks and protect the roots as growth goes on, hoeing frequently, and dressing the surface with either short manure, line and soot mixed, or any favoured manufactured fertiliser during showery weather in early spring. Earliest of Aband Early Dwarf are capital spring cabbages. Christmas Drumbead should be sown in the beginning of April, so should the St. John's Day variety, while Early York may be sown in May. The coleworts, sown in June and early July, come in for autumn cuttung. Rosette and Hardy Green are good sorts, and will do in rows rather more than a foot apart, allowing ginches between each plant. During August Enfield Market may be sown, as well as Nonparell, and planted out the next month where peas or beams have been cleaved. In or any favoured manufactured fertiliser during showery month where peas or beans have been cleared.

all cases lime, salt, and soot mixed may be applied as a dressing to the seed bed with advantage, and dusted on the seedlings after a shower to prevent attacks of the cabbage fly. Weeds should be kept down by frequent hoeing and hand-picking, and caterpillar minimised by continuous hunting and lime-dusting when the dew is on the leaves. Red or Milan cabbage, so popular for picking, should be grown from seed sown at the end of July and again in April, and transplanted later in due course, the astre culture being similar to that of the other cabbages. The Red Dutch is a general favourite, and other serviceable sorts are Utrecht Red and the Dwarf Red, both rather smaller but firm and fine flavoured. The red cabbages must stand in the ground until the hearts are quite hard. The Portugal cabbage, sometimes called Couve Trouchuda, is a Brassica of very distinct type, and somewhat tender of constitution, requiring to be sown in spring for autumnal use. Only the fleshy leaf ribs are eaten, prepared for the table like sea-kale. The Portugal likes a good rich loam to grow in. Capasicum.—Ormamental plants, especially in autumn, when the fruits are ripe. They should be raused from seed in a hothed in February, the seedlings being pricked out into single pots of light rich soil, and given successive shifts until each occupies an 8-inch pot. They require a genial temperature, and may remain in the frame until the fruit begins to change colour, though in the extreme south they will fourth in the later stares in a warm border if planted

Carrot.—Soil for carrot culture should be very deeply dug, and manured in the autumn, at the bottom of the trench, and if at all stiff the land must be lightened with sand and peat. Break up the surface with a rake in spring, working in a good inch dressing of wood ashes, and leave all smooth for seeding in shallow drulls, covering the seed very slightly with finely sifted soil, and pressing down with the back of the rake. Powdered chalk and coarse salt may be incorporated with the top dressing before sowing in early April. Thin out to four inches apart in the case of the early Shorthorn variety, which is of delicious flavour when young, and water well from soon after the leaves commence to grow, taking great care to keep weeds down. Larger carrots want correspondingly more room, and the improved Altrincham variety is a capital main crop sort. It can be sown till after midsummer. Liquid manure applications assist development. After October is over no carrots should be left in the ground, for retention there tends to Carrot.-Soil for carrot culture should be very be left in the ground, for retention there tends to make them crack. Loosen the soil with a long-tined digging fork, and draw each root carefully, cutting off digging fork, and draw each root carefully, cutting on the tops and storing them in dry sand for winter use in the kitchen. Light soll, deeply drained, with a layer of rich manure well down at the bottom of the prepared bed, will give good clean carrots, free from forking, which is always undesirable. Before the general harvest, carrots should be drawn as requisite

regularly, leaving what remain to mature more and more free to feed and thicken.

Cauliflower.—Cauliflowers, like cabbage, require daalinower.—Caulinower, like cabbage, require a deep rich ground to grow in, only more so; and being somewhat tenderer of constitution, they should be planted in a position sheltered from the north content of the position of the property of the position of the property of the position of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property Finally transplant into the prepared perfecting ground in May. Walcheren and Magnum Bonum are find-season sorts, and Autunn Gaut is grand for late cutting, and these should be sown and grown on accordingly, as in the case of successional cabbages. accordingly, as in the case of successional rationless, Good root watering, with occasional stimulation by liquid manure, is advisable in droughty weather, and on the commencement of the head formation the leaves should be hent over to keep the hearts clean

and on the commencement of the head formation the leaves should be hent over to keep the hearts clean and white. Draw up the earth to the stems when it is dry and friable, take of all decaying leaves, and hoe often to prevent the establishment of weeds, and let air and warmth down to the roots. Also watch out for caterpillars closely, for, if permitted to secure a lodgment, these pests will frustrate ail your efforts.

Calerias.—The turnip-rooted celery is cultivated for its tuber alone, and therefore does not need blanching or trench growing like celery proper. It is a hardy hiemnal subject, and is employed either sheed in salads or for cooking, having the peculiar celery flavour. Sown and transplanted early, it may be put out into good ground in May, when it will it some develop its irrecular root knot, which will it some develop its irrecular root knot, which will in some develop its irrecular root knot, which will in some the other than the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the

lings when they have reached a inches in leight, which will be about a weeks from the time of putting in the tiny seed. They may be transplanted either into pots, or a cool frame, usiny a compost of loam and well-rotted dung, the latter in preponderance. Water freely to obviate lanky growth. Planting out in the open prepared trenches should take place at the nilddle or end of May, a warm part of the graden being selected. Take out the earth to a depth of 18 inches to 2 feet, allowing a width of fully 15 inches soil over the manure, and heaping the romainder of the removed mould neatly along the banks for earthing-up purposes later. Put your celery in 8 inches apart, planting firmly and carefully without breaking the hand they have a substanting firmly and carefully without breaking the hand. purposes sites, and carefully without breaking she ball, and the water as literally at you like, reachaboring before the sense is a marsh dweller naturally. Do not begin the searthing-up too soon, but get a sturdy start, applying liquid manure or soot water occasionally to assist you. When your plants are 15 inches high remove suckers and side growths cleanly, and tie up the leaf stalls lightly towards the top wfit bass, very carefully banking up the earth from the ridges in dry weather, and avoiding the introduction of soil amongst the leaf-stalks. Make your banks gradually by repeated thesping, sloping the earth down evenly until the ridge reaches almost to the leaves. The final banking should be completed before the first severe frost comes, and then dry litter or fern may be lightly laid over all for protection, and removed on mild days to permit the leaves to dry. So you will get good thick, firm heads, well blanched and crisp, and lasting over a long time of yielding. A dressing of dry lime upon the soil employed in earthing up will keep the worms and sings from troubling, and a little quicklime in the water used occasionally for supplying root moisture is also effectual in the same direction, while, should the celery fly put in an appearance, soot may be dusted advantageously over the foliage when it is damp. In gathering celery commence at the end of the row, removing one head at a time by forking down to loosen the srot without disturbing the remander of the crop, and pulling up from well below so as not to damage the stalks. Grow from the best quality of seed, whether you are using the white or red varieties, the former being most in favour.

Charwalth A useful salamured ground in March for summer use, thinning thereafter or in A quest, in a a warm dry situation to stand the winter, the latter crop requiring protection against severe frost.

Chilcory.—The tender roots of chiccry, succory, savory, or wide endew, the roots of which are cultivated for grinding to analygamate with coffee, are in request for winter salading. Seeds are sown in drills on a over all for protection, and removed on mild days to

savory, or wild endwe, the roots of which are cultivated for grinding to analgamate with coffee, are in request for winter salading. Seeds are sown in drills on a border in May, the plants being thinned out to 4 inches apart and allowed to develop. Then, in August, all the leaves are cut off to within an inch of the ground, to promote new growth. About the commencement of October the whole plant is lifted with a digging fork, the larger leaves again cut away, and the roots pruned. Then the chicory is planted in dry, light soil, closely in shallow boxes, and covered with litter to protect from frost, watering when needful. The plants may be taken, boxes and all, into a warm, dark shed or cellar, to blanch and complete preparation for the table, the leaves being insually cut when about 6 inches long, and quite crisp and tender.

leaves being isually cit when about 6 inches long, and quite crisp and tender.

Chilli.—Chilli fruit, like that of the capsicum, is cultivated in the greenhouse for its pungent properties as a pickle, and for infusion cut up in vinegar. The seed is sown over gentle bottom heat, and the young plants potted off singly and shifted later into larger pots. If the chillies are to be gathered green, the playts may be placed in a warm border in June, but should the fruit be wanted to fully ripen it must be developed indoors under glass. (See also Capsicum.)

The tender of the relation of their succulent leaves, consorbed, but rather milder in flavour, and very useful m soups, also for salading. A perennial, propagated by root division autumally, the clumps growing nucely in ordinary soil with little attention. The tender leaves are cut up by some turkey-raisers for admixture with the food of their newly-hatched birds. Colewort. (See Cabbage.)

Corn Balad. Sometimes styled the "Lamb's lettuce," it his weedy annual is employed in France and in a small way in this country as a winter and early spring substitute for lettuce, in slads. Should be drilled in upon a warm border in September, in rich light soil, and weeded and watered as may be needed, and litter must be placed over the plants in very frosty weather. The leaves must be picked when young and tender to afford satisfaction. Cottagers Kale. See Borscole.

and tender to afford satisfaction.

Cottager's Kale. See Borecole.

Cress. The seed of the garden cress may be sown thickly in shallow boxes of light soil at any time or in the open ground from March to October, on a moistened surface, and covered either with a sheet of glass or stretched paper to assist germination. In winter the seed leaves only are eaten, with those of white mustard, as small salading, or they make an agreeable accompaniment to lettuce. What we commonly call cress is a Central Asiatic annual; the Golden or Australian Cress is eaten with the leaves a little more advanced in growth, and may be sown out-of-doors all through the late spring and summer. Curled or Normandy Cress is hardy and fine flavoured, and comes in for gamishing as well as sailed purposes. It should be sown in drills in a sunny border and treated and gathered somewhat like parsley.

Greunber. Cucumbers can be grown under glass, at any season of the year, by adjusting the temperature and moisture of the soil employed and the surrounding atmosphere to their needs. The frame of the forcing house in which they are cultivated requires to be maintained at a temperature ranging from about 90 to 75 degrees, and never permitted to fall below the former. This is the first essential of success. When such a condition can be managed by warm water pipe heating or hot-air flue medium, cucumber cultivation becomes a simple matter. But a great many amateurs have to rely upon hot beds, which must be constructed according to an approved method. A sufficiency of fresh stable manure must first be procured, short saturated litter and dung being its principal components, and the whole in a full state of fermentation. This should be well shaken and turned over at intervals of a few days, at least three times, amalgamating dry loaves and vegetable retuse thoroughly minding dry loaves the whole, steaming hot, into a good deep pit or frame, or range of frames, standing fully exposed to the sun and sloping southward in a sheltzerd position. Piace on the top light or lights and leave all to settle for a few days and bring the heat to the top. Next till the light up a little to allow all the accumulated rank steam few days and bring the heat to the top. Next tilt the light up a little to allow all the accumulated rank steam tolescape. When the contents of the frame have cooled tolescape. When the contents of the traine have cooled down to about 85 degrees in temperature, a covering of good rich loam may be spread over all 3 inches in depth. The surface should be as much as a linches below the level of the front or lower wall of the frame. or good rich loam may be spread over all 3 inches below the level of the front or lower wall of the frame. When you have reached an ascertained steady temperature of not more than 80 degrees on the top of the hotbed below the superficial solid-fressingly, which may be tested by plunging the bulb of a garden thermometer 6 inches down, you may proceed to make concentration of the mounds of hillocks of the solid to receive the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the concentration of the capture of the concentration, will raise the heat by increasing fermentation, less moisture and more air administered will in a corresponding ratio cool the lothed. In giving air you must be careful to proceed so as to avoid draught or uneven distribution of temperature, and all will go well. Experience herein, following the principle laid down, will soon enable you to proceed with confidence. Your growing compost may well consist of two parts yellow fibrous loam, containing knobs and lumps of mature tur roughly broken and laid towards the bottom of the bed, and one part good peat, the remaining fourth being leaf soil. To this add clean sharp sand to the extent of a twentieth. Let the bottom of soil warmin as that you will set them at liberty in, and so receive no cleck. So by pinching of above the second, both the shoots remaining being again pinched back above their third joints. Succeeding young shoots should have their tops pinched of also with the finger and thumb at the second and fall towards the conflicts. again pinched back above their third joints. Succeeding the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the pr

The thing to strive for is air, moist and fresh, and yet constantly at the temperature indicated. Sunheat will give you a deviation to 5 degrees extent at least higher at mid-day, even if you are particularly cautions as to putting air on in the morning and withdrawing it at the proper time, but this is a natural condition of plant life. In a forcing house where the heat is regulated by an easily governed boiler or by fire-heated flues, it will be necessary to maintain the moisture by waterings and floor sprinklings, and the cucumber vines, grown in borders over, or near to, the flues or pipes may be trained to trellies to hang the first down naturally and straight. In the frames glasses will be necessary to secure straightness for the moist fruit, but, with quick, heating growth achieved by practising the precepts here expounded, there will be little maliormation that matters. Gherkins, and some fairly-long hardy outdoor cucumbers, of which seed may be readily obtained, give satisfaction if grown in a sunny yet sheltered position in good horbeds in the garden, the young plants being started off under bell or handglasses and lightly syringed overhead in the evenings to promote humidity as much as possible. The plants being maintained in vigour, their thick large leaves will give the requisite shade to the running and fruiting shoots. The fruit not introduced into training glasses may be laid on pieces of slate to prevent discoloration underneath, and all decaving leaves should be removed.

Guestard Marrow. (See Marrow.)

leaves should be removed. See Borecole.)
Curled Greens. (See Borecole.)
Custard Marrow. (See Borecole.)
Egyptian Kale. (See Borecole.)
Egyptian Kale. (See Borecole.)
Endlwa.—A very useful said plant, easily grown in light, porous soil, well trenched, and enriched, in any sunny garden. Seed may be sown in shallow drills on a pulverised bed surface in June, raking all even Thin out the weaker seedlings, leaving th. more robust plants about a foot apart all ways. When fully grown, the plants, laving had the soil drawn up to the roots, during development may be blanched by tying up and placing inverted flower pots over them. The process takes a week or more, and it protects against injury from frost as well as giving the requisite whiteness to the heart leaves. Batavian endive is a satisfactory sort to grow and of fine requisite whiteness to the heart leaves. Batavian endive is a satisfactory sort to grow and of fine flavour, its lettuce-like leaves having an appetising bitterness; but the curled sorts, green, white, and the New Moss Curled are in great favour if less hardy. The staghorn variety of the latter will stand outdoors well on into the winter under a south wall. Some protection must be provided for the crowns in carear worths. severe weather.

Fennel.-Fennel, cultivated as an ingredient of Fennel.—Fennel, Chitivated as an ingredient of sauces and salads as well as for pickling, may be raised from seed sown in April, and covered lightly with soil. Transplant the seedlings a foot apart and pick off all flower stalks as they appear in order to ensure fine leaves. A good bed will last for several years. The leaves possess valuable digestive properties, and are a corrective of flatulence.

corrective of flatulence.

Garlio,—This powerfully pungent bulbous perennial, a very little of which goes a very long way, requires similar culture to the shallot, being propagated by separation of the cloves of which the bulbous root is comprised, and setting them out in spung in rows in rich and friable soil and a sunny situation, planting a nches deep and a few inches apart. Weed the bed well, and dry when ripe in the sun for storing. A small clove of garlic inserted in the knuckie of a leg of nutton will permeate the whole joint, and the mere rubbling over of a warm dinner plate with a cut clove will affect whatever is served therefrom with the strong sarlic flagour.

will affect whatever is served theretrom with the strong garile flavour.

Greans. (See Borecole.)

Horseradish.— Horseradish requires rich, deep soil for its proper cultivation, and a moist situation suits it best, the object being to obtain long, straight, smooth root growth. Sets or pieces of root should be planted at the bottom of a deep and well-manused trench, and a single shoot only allowed to grow above ground at one time in each case. In digging, the earth should be carefully thrown from the root to be gathered, so as to get up the full length without damage to it of the stick. It must be harvested before freet

hardens the ground when wanted for winter use, and

hardens the ground when wanted for winter use, and stered in damp and, the wanted for winter use, and stered in damp and, the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of the stere of large size and are very hardy. Large Rouen are amongst the best for main crop, and Early Netherlands come in first for use. For exhibition purposes leeks are sown under glass early in the year, hardened by transplantation, and cultivated in protected and richly manured trenches.

manured trenches.

Lemon Thyme. (See Thyme.)

Lettuce.—A hardy annual, whose crisp and julcy leaves are of old dietetic renown. It requires rich friable soil, and a nice open situation, but not too much exposed to strong sunlight, and should be sown broadcast on nicely prepared and narrow beds from March onward, thunning and transplanting carefully. broadcast on nicely prepared and narrow beds from March onward, thuning and transplanting carefully, so as to leave each lettuce at least 6 inches apart. Hardy cabbage kinds may be sown early in August to stand the winter, and removed when handleable for the purpose to a warm border, allowing 8 inches between the plants. These will be at their hest for cutting in May, and for succession seed may be sown in a cold frame in February, the secclings being pricked out in a frame for later transplantation. Thereafter the open alt sowing will suffice. Early Paris Market is a delicious sort for spring sowing, and Hammersmith Hardy Green stands the winter well. Other satisfactory cabbage lettuces are Drumbead. Tennis Ball, Brown Dutch, and Neapolitan, a splendid summer strain. The culture of the cos lettuce is the same as that for the cabbage varieties, and White Sugar Loaf Bath Cos handsome, and Brown Cos capital for whiter use. Lettuces will greedily devour liquid manure applied to the roots during the growing period, and quick development lumproves the flavour and adds to the leaf crispness. The cos lettuce leave may be carefully drawn together when growth is well

period, and quick development improves the havour and adds to the leaf crispiness. The cos lettuce leaves may be carefully drawn topether when growth is well advanced and tied towards the top with soft bass to help hearting and blanching.

Examuring.—Systematic digging and trenching after the annual muck-spreading will accomplish most of the manuring essential to successful vegetable culture, save in the case of special subjects like asparagus, especially if followed up by mulches of short manure at planting or seeding time. The latter is a good plant to go on all summer plantity, and with regard to sowing any but small seed, such as that of onlons, paraley, carrots, etc. Cas linne makes a fine dressing for fallow land on which cabbages or tumips are to be grown, and this, like stable manure, should be on the ground for some time prior to digging in. Nitrates or other clean fertillness may be advantageously applied to quick-growing root and green crops when the

growth is well started and they can absorb the nutriment therefrom. Peas, onlone, kidney beans, and cabbages are all voracious feeders, and the ground in which they are cropped ought to be first enriched as much as possible, but it is wasteful to apply fertilisers to leguninous crops after the stalk and bine have started, as pea and bean plants get all the nitrogen they need from the atmosphere. Manure from the stable anywhere where seed feeding has been going on should be fully fermented before being applied to the ground, or there will assuredly be a very undestrable weed crop. Old hotbed manure is a grand thing for the land, and, generally speaking farmyard manure and road sweepings, both in the best condition, are preferable for application to the kifchen garden to manufactured sods nitrates, ammonia sulphates, or superphosphates, however the freedom of these latter from strong odours and their easy distribution may tempt one to make use of them. Seaweed, blood, crushed bones, sewage, nightsoil, and many other kinds of growth is well started and they can absorb the mitri-

one to make use of them. Seaweed, blood, crushed bones, sewage, nightsoil, and many other kinds of animal and vegetable refuse may be utilised in various ways in the ground, the great thing being to employ them intelligently and methodically.

Marjoram.—Pot n.arjoram and winter sweet marjoram are hardy percanials, which grow well in spring or autumn. Cutting the stems of the plant should be done in summer, drying in bunches in an airy, shady place. Knotted marjoram is rather a tender subject, and should be raised from seed in slight heat in March, and transplanted later to a sunny border.

Marrow.-The vegetable marrow varieties of the Marrow.—The vegetable marrow varieties of the edible gourd genus are extensively cultivated, and must be first raised from seed sown in a hotbed or greenhouse, in light sandy leafsoil, the seedlings being transplanted into single pots to harden off ready for planting off on a sunny bank sloping southwards or an old rubbish heap or dung heap, being given a rough mound of rough turly loam and broken sods to run their roots in, kept well watered and clear of weeds. their roots in, kept well watered and clear of weeds. They aboninate stagnant moisture, but cannot very well receive too much if the root drainage be complete. It is not necessary to make a hotbed specially for marrows, any raised collection of well-shaken refuse will serve to give them an elevated position in the sun and firmsh a good growing start, but it is admirable to cover the young plants with a landglass tilted a little of first, or otherwise afford shade and protection agains mid-day sun and possible night frost. Late May or early June is quite soon enough for outside planting. The Cream, while, Long Cream, and Long Green and scallopped-deged Custard Marrow eats swear and requires similar culture to the oval and cylindrical sorts. The huge pumpkin or squash needs a lot of room for its great rumoling shopts. Its sometimes enormous Cult is not gathered limmature for the table. like that of the Marrow, but ripened for mashing, and like that of the Marrow, but ripened for mashing, and

enormous full is not gathered limmature for the table, like that of the Marrow, but ripened for mashing, and ple or lam making.

Milan or Red Gabbage. (See Gabbage.)

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March is a very good time to plant. Just when the bloom stalks begin to sllow cut and dry in the sum for bunching and kitchen use. In late autumn cut all the remaining stalks level with the ground and dress the surface with a good inch of fresh soil. Spearmint is of course the most called for in the kitchen, but peppermint and pennyroynl are both worth cultivation and are easily managed when the conditions are favourable. The root runners of the peppermic keep above ground.

Mushrooms.—Most people like nicely cooked fresh mushrooms, and these delicious fung may be grown easily all the year rooms or making upshot beds indoors or out and artificial spawning.

Mushrooms.—Most people like nicely cooked fresh mushrooms, and these delicious fung may be grown easily all the year rooms or making upshot beds indoors or out and artificial spawning.

Milan or making upshot beds indoors or so the sum damp cellar or a sufficiency of well-rooted stable manure, turned over in the sun three or

four times to sweeten, and well mixed with about a quarter of its bulk of good loam at the last time of turning. The bed should not go above about two feet high and be given a gentle slope and well beaten down with the back of a spade. Smaller beds may be made up, sloping from front on wall, on shelves in shed or cellar, slways getting about the two feet depth. When the bed temperature is down to about 7s degrees two inch bits of the spawn bricks to be had of all florists should be broken off and inserted freely over the surface of the manure, pressing down and covering with an inch snounce be orkent of and inserted freely over the surface of the manure, pressing down and covering with an inch of good garden soil. Then cover with an old mat or bag to exclude all light, and if the place be moderately warm and your spawa is good, you will in six weeks or so find mushrooms under the mat. Then, and not till then, you may water with warm or tepid water from a rosed can, and a sfit dressing over the bedts will add to their fertility. Outdoor mushroom growing presents little difficulty. Stable sweepings shot together, then little difficulty. Stable sweepings shot together, then tossed into a conical heap, soon become dry enough for the purpose in hand, so that flat beds, or what are more customary out-of-doors, long conical ridges, can be quickly made therefrom. These beds or ridges must be made up when the material is warm up to about 90 degrees, as they must be trodden or beaten down quite firmly, a process which will greatly reduce the heat. After they are made wait a day or two to see how they heat, and when they fall to 75 degrees or a little lower, spawn and cover them with an incheventyl and over-off good yellow loam, then cover all with a few inches in depth of short litter. Should a rainy period follow, the beds must be protected from rainy period follow, the beds must be protected from excess of water, indeed they are best without any until

excess of water, indeed they are best without any until mushrooms appear. A covering of mats or casily removable plained straw over the beds or rickes is very helpful. Never use stable spawn, get it fresh from the grower or a reputable garden requisite establishment, or you will be badly disappointed.

**Mustard.**—As an accompaniment of cress for small salading this is indispensable, and should be sown similarly, broadcast, in pans, boxes, or on borders, the soil made smooth and most. Press the seed upon the surface, but do not cover, or the stalks and leaves will be gritty. Water gently with a fine rose after the leaves are first formed, and shade from the sunlight to keep green. Sow often and cut quickly,

leaves are first formed, and shade from the sunlight to keep green. Sow often and cut quickly.

Onions.—Autumn sown onions escape the fly which is such a pest to this esculent. Give them good soil, well tilled, and sow in drills, o or ro inches apart, thu-ning afterwards freely. This will give plenty of spring onions for the table, and with weeding and hoeing later large bulbs for maturing and drying for winter use Dressing with soot and crushed common washing soda Dressing with soot and crushed common washing soda staves off the maggot and promotes fertility. Seeding in Fabruary or 'March, covering thinly with fine soil, will give successional growth. The White Lishon is fine for spring salading, Golden Globe and Tripoli sorts come in for summer use, the Giant Rocca is grand for autumn sowing. Fresh manure, except when trenched deep down, is not reckoned good for an onion bod, but wood ashes and charred rotte are excellent for workdeep down, is not reckoned good for an onion bed, but wood ashes and charred refuse are excellent for working in before sowing. At maturity, that is when the leaf stalks begin to die down in autumn, pull up the bulbs and let them dry on the ground for a good week, turning occasionally, before storing away where fost or damp will not get at them. The Spanish onion is preferred by many for its midnets, and the Giant Madeira, of great size, is also a favourite "hille the silver-akinned is perhaps the best of all for pickling, and Blood Red very handy.

**Paraley**—March sowing for summer supply and June seeding for winter use is the pra-sice with this very useful biennial garnishing plant, which may run along the edges of borders advantageously. Take out a narrow little trench a foot deep and lay along the bottom broken brick rubbish and old moriar, filling up with good loam, and sow the seed thinly in drills. Cover lightly with sifted soil and water very gently from a fine rose, and thin out the plants, watering freely in dry weather recreation: cultivated in deeply reached sandy soil the manure being well worked down into the subsoil to prevent forking of the roots. Sow in lines, say 15 inches apart, thinly in early

March, covering the seed very lightly with finely sited soil. 'Thin out when a inches high to not less than 8 inches apart, hoeing freely afterwards. Take up the roots in November, cutting off the tops before storing away in a cool cellar. They are hardy enough as a rule to withstand frost if left in the ground and covered lightly with bracken, but would begin to grow again in February if permitted to remain, and quickly deteriorate. Large Guernsey and the hollow crowned varieties make clean and handsome roots, nutritious and fine flavoured.

Pass.—Ground for pea cultivation should be

varieties make clean and handsome roots, nutritious and fine flavoured.

Peas.—Ground for pea cultivation should be trenched to 2 feet deep, during the winter, and left quite rough for the frost to get well at it. Work in a lot of good fresh manure at the digging, and fork over freely before planting, which should be done without solidifying the earth by trampling too much. Burnt garden rubbish and wood ashes are very good for incorporation with the mould in which peas are sown. A friable and calcareous soil is preferable, for this admirable leguminous esculent, and dry days are best for the sowing, which may commence in November in she most sheltered positions, Ringleader and Little Gem being suitable sorts for the earliest crop. Sow in trills a inches deep, covering with nice light soil after gently pressing each seed down, and "stick" when 4 to 6 inches high, drawing up dry soil in ridges to the stems, which affords shelter and induces good root growth. In frost a little bracken or clean litter may be laid over the young upspringing plants. In January a second early crop may be sown, and Little Marvel in drills towards the end of February 3 inches deep, Successional sowings to continue the yeld right on into autumn can be made according to requirement. Successional sowings to continue too years into autumn can be made according to requirement. The wrinkled marrowlats go in very well in March, and Ne Plus Ultra is fine for the latest cropping, being the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the pr and Ne Plus Ultra is fine for the latest cropping, being a quick free grower. English Wonder, American Wonder and some other dwarf kinds will do without sticking at all if the soil be well ridged round the stems. Mulching with good short manure is good for peas in dry weather, and copious root watering also if the soil be deeply worked and drained. Leave as much room as you can between the rows, and run them north and south for the main crop planting, cabhaeres. I rench bears or online between to occur cabbages, I rench beans or onions between to occupy

cabbages, Prench beans or omous between to occupy the surface intervening.

Potatio.—Potato culture is the most important of all kitchen garden work, and should therefore be approached with full understanding and systematically. To begin with, the ground must be rich but sweet. Soil heavily manured for a previous crop such as celery, then thrown up roughly for frosting in the winter, suits potatoes well, for fresh manuring, either at planting time or subsequently, tends to make the tubers "sonpy." Sandy soils previously enriched make the best flavoured aud finest conditioned potatoes for the table, if not the heaviest crops. Charred vegetable refuse is valuable for working into the surface soil when the "sets" are planted, and a sprinkling of dried wood ashes along the trench and over the "sets" will often be helpful in warding off disease. Never attempt planting potatoes too early except for forcing, lest a night frost blacken all the promising row of peeping leaves and put you back weeks later than your more prudent neighbour who has deferred operations. The Ashleaf sorts are among the best of the early kidney-shaped potatoes, though Snowlake and some others of the white-skinned section are year good. Beauty of Hebron is a fine plak-skunned Ridney variety for early vielding, while for a later crop among kidneys Magnum Bonum son the planted as soon on the January as the form of Regent" and Magnum Bonum (white), also Purple Prince (a deep-coloured, heavy-leiding kind). To get a very early outdoor supply, a small bed of Ashleas may be planted as soon on the January as the ground will work, on a south border under a sumy wall, protecting from the sound of the sum of the sum of the sum of the winter and early spring sin get to the beds.

Radish.—Early radishes may be procured by sowing in favourable February weather on a wellthe surface intervening.

Potato.—Potato culture is the most important of all

prepared bed of light learny soll on a warm border or in a sunny corner of the garden, with an old light or two or a collection of straw-covered hurdles to afford protection on cold nights, or they may be grown in cool frames by removing the cover during the day and replacing when frost is about. The soil should be rich and friable, and nicely drained, and the seed may be sown thinly and broadcast, giving tepid moisture with a rose in dry weather, and keeping the birds scared away. Quick growth is the thing to

Rampion.—The white, fleshy tap-roots of this blennial are boiled and eaten like asparagus, or used raw—as also are the leaves—in salading. Sowlings in the stade in good soil in drills 6 inches apart should be made in May for winter supply, or in March for late summer and autumn use, thinning out to 6 inches apart. Weed well. Rampion roots may be stored in sand in November, and will keep a long time.

Rhubarb.—Rhubarb may be planted in spring or autumn in well-digged and richly manured ground, placing the divided crowns 3 to 4 feet apart. Tubs or wide chimney pots can be placed round the sets in autumn to give an extra early supply of long, julcy stalks, and the ground should be well muched with short decayed manure after pulling.

Rue.—Besides bong a medicinal plant, Rue is

decayed samue after pulling the decayed samue after pulling medicinal plant, Rue is useful for participation in any be grown from seed useful for participation in a propagated from sips.

Sage.—Sage should be grown in light, rich soil, and is propagated without difficulty by slops taken after flowering in the autumn, or by layering in spring. Harvest and dry in the aut in September, proceiving in light paper bags for pulveri-ation of the leaves in seasoning preparations in the kitchen.

Salsaty.—Salsafy, sometimes called the "Vegetable Oyster" because of the delicate flavour of the root when properly cooked, is a bennial. It should be sown in light, rich soil, well manuer from a previous crop, in April, the plants being thinned out to about a foot apart.

foot apart.

Savoy.—The Savoy is a kind of cabbage with blistered leaves, very hardy and improved as to flavour by exposure to frost. Successional crops may be sown in February, mid-March, and late April, for later transplantation. Savoys require well einriched ground to grow in, and plenty of room, from 15 inches to 2 feet of space per plant, according to the size of the sort. Tours is an early and excellent variety, Colden very handsome, and the Drumhead extra large but coarser in flavour and best suited for field culture and cattle feedum. field culture and cattle feeding.

field culture and cattle feeding.

Scorzopera — Scorzopera requires similar culture to Salsafy, which it resembles as to root save for the back skin. To get the roots of Scorzopera large it may be permitted to grow on to the third year, and in cutting the leaves away for storing care should be exercised not to injure the root crown

and in cutting the leaves away for storing care should be exercised not to injure the root crown.

Saa-Kala.—Sea-Kale may be raised from seed, or cuttings of the root extremities or "thougs." The seed should be sown about the leginning of April in drills a or 4 feet apart, and 3 mehrs deep. Thin out to 3 inches apart, and transplant later, say in July, to leave rows of plants about a foot apart in the nursery beds, which should be of light soil. Through the late summer and autumn these must be watered and weeded. The following March carefully transplant all into well-prepared beds of deeply-dug and rich sandy ground, on ridges of 3 and 4 in a clump, a yard apart, placing kalepots subsequently over each clump to protect the assemblage of crowns, covering all with 3 feet of fermented manure. The blanched stalks should be cut for use when ripe, going down to the base, and removing all decaying leaves before giving a dressing of ashes and salt to keep earth-worms under.

Shalloka.—Eschallots are Syrian bulbs, excellent for pickling or for flavouring purposes, and may be planted in autumn or spring in good light soil, a warm situation being requisite for the first two settings. The affect-rearment is analogous with that of the Potato Onion, and differing but little from what is necessary in the culture of ordinary small onions.

Skirpet.—An oriental fleshy-rooted perennial, the roots of which are used for boiling and serving like

Salsafy. May be raised from seed, the seedlings being transplanted into a good depth of much enriched soff, allowing a foot to each plant, and watering well in hot

Westiner.

Borrel.—The leaves of this plant are employed in favouring soups and in salads and sauce preparations favouring soups and is part of the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the salad in the

The leaves are gathered singly for use, and are peculiarly acid to the taste.

Bpinach.—Spinach needs rich yet light land to grow in to perfection, and a plenitude of moisture. The seed should be sown in drills a foot apart in mid-March, and when the plants can be safely liandled they must be thinned out to 4 incles apart. A good place to grow them in is between pea rows. The Round-leaved is a very good summer sort, and the Prickly-seeded sponach will stand the winter if sown in August. When it will come in for winter and early August, when it will come in for winter and early spring use. The leaves should be plucked singly as they arrive at full size. Spinach Beet, or Perpetual Spinach may be grawn similarly to Spinach properly The Lettuce-leaved Spinach furnishes an abundance

The Lettuce-leaved Spinach furnishes an abundance of succulent foliage for winter cutting, but requires slight protection against trost in hard weather.

Tansy.—Used occasionally for ganishing. Its plumose foliage exhales a very powerful odour. Used to be employed for imparting a peculiar favour certain puddings. It will grow in any odd corner.

Tarragon.—Propagated by root division in March and October, and should be grown in a dry and warm spot, in good rich soil. Cut down for kitchen use as water ampraches. inter approaches.

winter approaches,

Thyme.—May be raised from April sown seed in
good light soil, or increased by root division in spring,
planting about 4 inches apart. Lemon thyme is much
esteemed for its delicate perfume and deliciousfavour.

Tomaco.—The Love Apple, a South American
frunting annual, which has now assumed a lighty
important position as an article of dietary and comimportant position as an article of dietary and commerce. Can be grown from seed sown in heat from
January to March. The young plants must be pricked
off into boxes of rich sandy loan and leaf soil as soon
as they will bear handling, and afterwards when the
third leaf appears, into well-drained 4-lach pots, and
kept well up to the glass in a cool frame. Two further
shifts will be requisite, to 6-linch and 12-linch pots
respectively, if the plants are intended to be fruited in
the pots, and in these stages of culture they should be
gradually exposed more and more to air. They must
in any case not be retained in too close an atmosphere
when in flower, the pots beeng gently tapped to disin any cise not be retained in too close an atmosphere when in flower, the post being gently tapped to distribute the pollen for the purpose of fertilisation and assisting the fruit to set. The pofs must be very well dramed, and a stout stick be placed for training each plant to, in order that the fruits may not drag them down. They may be planted out in a sunny border against a fence or wall with a southern aspect, in which case they may be turned from 4-inch pots in late May or early june.

TEPPIDE.—Turnios may be had early by sowing

Turnips.—Turnips may be had early by sowing Half Long White Forcing in a cool frame in February, or on a warm border in March, and this with judicious or on a warm border in March, and this with judicious thinning, will quickly produce nice usable and delicately flavoured roots. The soil must be particularly richand frable, but clear of heavy, undecayed organic matter, so that well-rotted manure only should be employed in enrichment with as much charred vegetable rubbish and wood ashes as can be worked in and after the sowing, a dressing of gaslime over the surface of the beds is recommended by some. The surface of the beds is recommended by some. The seed must be covered but very lightly, with fine soil, in shallow drills a foot apart. Thin the plants early to 6 inches saunder, and pull every alternate turnip for early use, leaving the rest to mature. Hoe fre-quently and water the young turnips occasionally in dry weather with rain or pond water if possible, and should the turnip flea appear on the beds, dust with line after rain or when the dew is on the leaves, or a dressing of soot will do good. Early White Strapleaf is a very useful turnip, so is the Purple Top Munich; for summer sowing Orange Jelly is grand and Yellow Finland fine for winter use. The Jersey Navet is an oblong variety which yields well, so Navet is an oblong variety which yields well, so

dess the Garden Swede. It should be mentioned that if turnip seed be immersed in soft water for a day before sowing germination is expedited.

Worm wood.—A hardy indigenous perennial, which will grow anywhere, but is most pungently aromatic when produced on poor dry soil.

Yazz,—The Chinese Yam, a feethy-rooted perennial climber, throwing up annual stema, possesses thick club-shaped, starchy fleshy roots, not unlike those of the potato in taste after cooking. Fleces of the root may be planted in sandy soil, moderately manused in April.

#### FRUIT GROWING.

Apple.—Generally speaking, apple trees require a good learn soil, with a subsoil of clay, though many kinds will grow and fruit well on a calcareous or gravelly subsoil. They should not, as a rule, be planted in low-lying ground or a moist situation, nor yet in a high and exposed position. A good maxim is to select the sorts of apple which do best in any localitysfor planting thereabout, having regard to the positions available; and counsel from a practical grower with a knowledge of the neighbourhood should be obtained by the novice, not only as to apple trees, but with regard to every description of fruit tree, bush, or plant of any kind, the cultivation of which is contemplated. Those whose available crchard space is limited will do well to go in for apples grafted upon the Paradise or dwarfing whose available orchard space is limited will do well to go in for apples grafted upon the Faradise or dwarfing stock, which should not be planted nearer than 12 feet apart, while standards of the Free, or Crab stock, must not be placed closer together than double this dis-tance. When the trees are received for planting, any time between November and March, care should be taken that they are not exposed to frost. The ground having been properly prepared according to its con-dition and the special need of the subject, a hole should be discharding the standard of the subject and the special need of the subject, a hole should having been properly prepared according to its condition and the spocial need of the subject, a hole should be dug sufficiently deep and wide to receive all the roots without any craniping. Do not set too far down, though the soil may be loosed below the bottom root layer; it is better to lay out the roots too near the surface than too deeply. Be guided by the earth mark on the stem indicating how the young tree stood in the nursery. If the land be poor, work in with the planting soil some well-rotted manure. First trim off with a sharp knile all lagged root ends. Stand the tree upright in the hole, spreading out the bottom roots in an even radiation from the stem upon a tice even surface of mould, pressing or treading down firmly. Then put in more soil, holding up to the stem the next range of roots and filling in earth until they will like horizontally. Extend and press these into position horizontally, and so on until the surface is reached, treading all well down, but avoiding caking.

**Aprioot.**—Apricots flourish in good sound loan, with a chalky admixture, and may be planted in yard-deep holes in a sun-warmed and sheltered position, with a broken brick layer for drainage. Rotten leaves, to the extent of a quarter to three-quarters of the caming staple, should be mixed well with the planting soil. Stop all leading shoots in pruning, and pinch back such shoots as are not required to properly furnish the wall. Thin thickly-set fruit of partially at once, reserving a final thinning until the fruit has stoned. Protection against severe frost will prevent damage. Hemskirk, Moor Park. Orange, and Breda

furnish the wall. Thin thickly-set fruit of partially at once, reserving a final thinning until the fruit has stoned. Protection against severe frost will prevent damage. Hefiskirk, Moor Park, Orange, and Breda are recommended for outdoor fruiting.

Blackberry,—Stony banks and other waste places may be profitably utilized for the cultivation of the Blackberry, which will absorb heavy manurial dressings. Root cuttings of the wild British variety can be readily introduced, or a selection should be made from the numerous improved sorts stocked by nursery growers, accepting the advice of the specialist as to the variety best suited to the situation.

Chaerry—Every garden or orchard in which space is available should afford room for a cherry tree or two. A deep rich loam, well drained, over a dry subsoil, suits most sorts admirably. Those grown on walls should have a southerly aspect, and careful training is essential, while for orchards the standard form is best. Cherry trees, especially bush trees, should be autumn pruned, as this goes a long way to prevent objectionable gumming. Blton Heart is a capital white-hearted elserry, while the Biggareans fruit wall a little later:

the old Black Heart and Cluster are satisfactory dark orchard sorts, and for walls Black Eagle and the Morcillos answer well, the Kentish variety of the latter being able to accommodate itself to almost any situation.

Morellos answer well, the Kentish variety of the latter being able to accommodate itself to almost any situation.

Gurrants.—Currants, as bushes, or trained on walls, will grow in any garden, but thrive best in deep, moist, rich soil, and are readily propagated from cuttings of young growing shoots struck under a handglass in light sandy soil from October to March. These or young bushes should be planted out in the attement of the will be planted out in the attement where the second year 5 feet to 2 yards apart. Frume in winter, leaving the leading shoots about 6 inches long, and shortening the bearing wood on the sides of the branches to form spurs an inch or two long. The black currant needs only the weaker branches taking away to leave the robuster growth to stand clear. Cut off anyl shoots on which aphides obtain lodgment, burning them forthwith. Trench in manure, well rotted, autumnally, and remove all suckers from the red and white varieties, encouraging then in the black section. Also cut out old-inosed wood and the leafy growth in the centre of the bushes, siming at getting them open, with even and regular branching, and umbrella shaped. Good general-use currants are: Red. Lace-leaved, Red Dutch Champagne, Cherry; Black, Black Grape, Naples, Ogden's Black, Carrer's Black Champion; 1/Pate. White Durch, Wilmor's Black Champion; 1/Pate. White Durch, Wilmor's Black Champion; 1/Pate. White Durch, Wilmor's Black Champion; 1/Pate. White Marterings with liquid manure during the growing period. A chalky subsoil is congeunal, and protection against frost is advisable which shows in the late shoots in the spring following from an attempt at ripening, which will occur in the summer should it prove hot and genial. These bearing shoots should be trained at full length to the wall, and cut back to one eye when fruiting is finished. Figs best suited for outdoor culture in this country are Brown Twikey, White Marsellies, and Brunswick.

Filberts and Cob Nutss.—Filbert and Cob Nutree or shrubs make a vory good screen in

prettity are the male nowers, and should not be smore away too ruthicasy in pruning, or there will be few nuts on the trees later. Gooseberry bushes like loose rich wil, absorbing but not retaining much moisture. The ground round the bushes ought to be forked lightly once a year, care being taken not to disturb the roots, and a little liquid manure is beneficial, also a superficial dressing of old hotbed stuff. Let the maisten of young gooseberry trees run to a foot high before allowing lateral branches to extend, then prunes as you would a red currant bush. If the caterpliar puts in an appearance, hand pick and destroy the pests. Good varieties are:—Reaf, London (very large and smooth): Turkey Red (smooth, late, small, and prolific); Red Champagne (hairy). Monarch (rich colour, large and hairy). Fullows, High Sheriff (age), and very hairy), Yellow Champagne (small, finefiavoured, late, hairy), Gipsy Queen (smooth, large,

hairy, pele-coloured, Early Sulphur (amooth, bright and abundant). Whites, Whitesimith (downy, splendld favour, large, heavy bearer). Careless (creamy white, smooth, large, and long), White Champagne (small, smooth, and will hang till it shriveis). Greens, Green Gascoigne (small, early, and deep coloured, Shiner (very large, round, smooth), Thunder (hairy, rich-davoured, large, early), Heart of Oak (amooth, oblong, large, yellow-veined).

Grapes, Gutdoor,—If suitable vines be planted, in a property-prepared border, against a high warm house or other wall with a southern aspect, ripe grapes may be secured by careful cultivation out of doors in favourable seasons in this country, and a well-trimmed vine is always very ornamental. The best sorts for this treatment are Royal Muscadine (white), the old white Swedvater, Miller's Burgundy (purple), Black Cluster, and Chasselas Vibert (white and sweet). The outer may be made on the ground itself, if with an Claster, and Chasselas Vibert (white and sweet). The border may be made on the ground itself, if with an asphalte or concrete foundation all the better, but the bottom must slope gently down to a drain. Chalk, well rammed, say 4 inches deep, makes a good first layer. Upon this place a thickness of a foot of rubble, rough and free from dust and dirt, with an admixture of large broken bones, calcined or not, but clean. Next a layer of turves, grass-side downwards, and on the top of this, a depth of not less than a feet (3 feet will be botter) of compost. This should be formed of five parts rich fibrous loam, one part of half-inch bones, and one part old mortar and broken-up bricks, with wood ashes, charcoal, and burnt clay or ballast. All is to be thoroughly mixed and placed on the border dry, being kept in position preferably by an outer wall of firmly-piled reversed turves, dressed smocthly on the front, so as to have the appearance of a shapely bank with a slight slope from the ground level inwards to the upper surface of the border, which should be as wide as possible. When all is nicely settled by a few reeliminary waterings, the vines may be planted out in spring time, when the young shoots are started, spring being a good season for the operation, though October will serve. Plant with the stem from 1 to a feet away from the wall, spreading the roots carefully about a foot down, to radiate in a half-circ all little depression at the top to facilitate waterings afterwards, which should laway swhen necessary be so administered as not to disturb the border structure. Before planting, each young vine for which there is wall space should have bean pruned to have on the one main stem three border may be made on the ground itself, if with an applicate or concrete foundation all the better, but the young vine for which there is wall space should have been pruned to have on the one main stem three branches or collars, from each of which in turn a shoot springs. These, by systematic pruning, are worked in successive long rod lengths, one to run horizontally as far as it will on the wall space available, the second half the length, and the third to be pruned and held half the length and the third to be pruned and held half the second the second that the second that the second the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second that the second far as it will on the wall space available, the second half the length, and the third to be pruned and held back for the production of the renewal shoot. The pruning of the rod which has done fruiting duty in the preceding season and the training in of the shoot to succeed it, ought to be accomplished during late February in open weather, before the sap begins to rise. All the young shoots should be neatly nalled to the wall without bruising, in mid-May, when they have attained a length of a or 3 feet, pinching off the ends 6 inches beyond the last young bunch. At midsummer the branches may advantageously be gone over again, and all finitiess growth not required for the next season's wood cut away. At any later time should there be too vigorous foliation, further judicious stopping and pruning must have attention. The bunches may have the berries thinned out very carefully with grape-scisors when this appears desirable, to allow spaces for their individual expansion. Water in very dry weather, and should the vine-mildew appear on the leaves, like a fine white powder, sulphur dusting must at once be resorted to. (See also Wines, Indoor.)

**Spanness Winebarry.** (See Winebarry.)

**Logan Berry.--A cross between the Blackberry and the raspberry, very pretty for training over wire arches or treilises, and a free grower. The fult, resembling that of the raspberry, is useful for culinary purposes, and the correct cultivation is similar to that requisite for the raspberry, save as to the training of the long rambling shoots.

Median—A decideous tree, bearing hard green fruit unfit for eating until "bletted" by keeping tree or three weeks after gathering in November, when it is agreeably acid and slightly astringent. Does well in several process of the propagated by building work ground. May be propagated by building work most ground. May be propagated by building the propagated by building the process of media, it is putch and the Stoneless that so for media, it is putch and the Stoneless being most frequently met with most of media, it is putch and the Stoneless and frames, made up as for cucumbers. They require a good deep bed of very firm Joany soil over the framenting manure. Never more than three fruit should be permitted to form on one plant, asall appear at about the same time, and three is enough—select the most promising and central—to tax the nutrition-providing powers of each subject. Let these swell coincidently, nipping of every superfluous shoot. It will be necessary to keep the sir dry in the frame whilst fertilisation of the female flowers is being secured, and this can be accomplished by slightly opening the lights at the back at night. When the fruit is well set and swelling, slip a slate under it, and keep up the heat and moisture in the finame liberally until the first sign of ripening appears, after which aim at secaring dryness again. As soon as the stalk looks like separating from the fruit, it is ripe; it should then be cut at once and eaten as soon as possible, or the flavour will deteriorate. A second crop may be induced by sillowing new shoots to start from the centre and cutting all away beyond them, remoulding up the bed with fresh soil and giving liquid manure to get the new growth going, and then proceeding as before, save that this time only two melons should be fruited to each root. From setting to ripening occupies about five weeks. Mildew can be kept down by sulphur dusting this time only two melons should be fruited to each root. From setting to ripening occupies about five weeks. Mildew can be kept down by sulphur dusting and cautious increase of air, and it may be necessary to fumigate to disestablish red spider. Fresh-slaked lime round the neck of the plant is often useful in the prevention of damping off. Good seed of scarlet, egreen, and white fleshed varleties of melons may be had of all nurserymen of repute, and should be raised as cucumber seed is.

Mulberry.—A tree of Persian origination and ornamental appearance, bearing richly aromatic and juicy oblong fruit in some favour for dessert. Likes a deep loum, and plenty of moisture and a sumy position; either as a standard or trained to a wall. Propagated from cuttings or by layering the young branches.

tion; either as a standard of trained to a wall. Propa-gated from cuttings or by layering the young branches. The fruit of the Black Mulberry is the only kind eaten in Britain; the White Mulberry is utilised in China for silkworn feeding. Nactarine.—A smooth-skinned variety of the Peach, which see. Nuts. (See Fillbarts.)

Peach, which see.

Nuts. (See Filbarts.)

Oranga.—Ordinarily when the orange is cultivated in this country it is rather because of the ornamental habit of the plant and the beauty and odoriferousness of its blossom than on account of the fruit, which rarely reaches perfection with even an expensively appointed and spacious orangery. But with some considerable trouble oranges may be fruited very well in a British hothouse, and some of the handsome Tangerine sorts thoroughly ripened. This is a matter for the possessor of a hothouse, though, who is scarcely expected to seek cultural counsel in these pages. He who has not at command a roomy glass structure it which the temperature is never below fifty on the coldest whiter night is warned off from any attempt at orange-growing. He will never produce fully developed fruit, though, with luck, he may maintain small orange trees in sufficient health to get them into blowing and bearing, and be able to use them for orangenting a conservatory or a pariour.

Peach.—Peaches and nectarines are nearly related, the former having its delicious fruit downy-skinned, the latter smooth. Both are usually grown grafted upon the plum or almond stock, and fan-trained to wails or wooden trellises when cultivated out of doors, the branches being tacked or nailed to the support until the leaves fall, when they are released to facilitate pruning. Wisps of straw are bound round the ends of the severed branches for protection during the winter, re-nailing and supporting being performed in spring to

assist new growth. When the leaves full in autumn they should be swept up and burnt, as they generally arbour the germs of injurious insect Hic. Peaches and nectarines flourish best in calcareous loam, of good depth, resting upon a gravelly or well-drained subsoil. Four year old trees are those usually sent out by the nurserymen; and the approved pruning method is to cut back the young shoots to two-thirds of the wood grown in the previous year. Bearing only results from wood of the current season. Fruit set too thickly should be thinned when the flowers fall, and again when what has been permitted to remain so far reaches marble size. Rivers's Early York, a large and handsome peach, of sylendid favour, is one of the best varieties for garden growth, while among nectarines Early Rivers's bears and fruit which ripens out of doors during auspicious weather before the end of July.

Peare.—In selecting young pear trees for planting—whether they be on the free (or wild pear) stock or upon that of the quince—many people like to have them one year from the graft, others those of two or three y years' training. Wall pears require branch pruning and training in winter, and the rubbing off of superfluous shoots during summer. Marie Louise and Beurre Hardy are grand wall sorts, while for standard, pryamidial, or bush gravel, Pirmaston Duchess, Targonelle, Williams's Bon Chretien, Doyenne du Comice, and Louise Bonne of Jersey are all choice fruiters. The Black Worcester is a fine culinary pear.

Plum.—Plums succeed best on loamy soil, with gravel or light clay at a good depth below; but there must be good drainage. They are grown bush form, as standards or half-standards, and as wall trees. They are supplied by the raisers on numerous stocks, and after planting, on the prunciple explained in dealing with apples, plum trees do not require much pruning, as over-free use of the knife sets their resinous juices "bleeding." Root-pruning is useful to check rank growth in the plum orchard, and young shoots forning too freely on b

growth in the plum orchard, and young shoots forming too freely on bush and wall plants should be promptly pinched off, to let in the light and air to the wood which will be productive, and root suckers should be removed assiduously every autumn, or they will quickly prove exhaustive to trees and land aike. It is advisable to afford support to pendulous branches when laden with fruit, as plum wood is peculiarly brittle. Very good plums to grow are:—Early Orleans (a fine wall sort), Victoria (dessert or cooking), Golden Gage (dessert), Washington (hardy Gage), Monarch (dessert), Pond's Seedling (culinary), and Wyeilale (vory late cooking). Mirabelle, or cherry plums, bloom very arty, and require shelter and a warm aspect. They are long stalked, red and yellow in colour. White Magnum Bonum is a choice plum, and so is River's and Early Apricot. Of the damsons, Kentish Cluster, Prune, and Blue Prolific are recommended.

Quince produces the finest and largest fruit, which nakes good manualade. May be propagated from cuttings, and treated as an orchard-tree. The Portugal Quince produces the finest and largest fruit.

Raspbarry.— Raspberry plantations are best started in the autumn, and, properly attended to thereafter, they will continue to bear alumdantly for years. The ground soud is propagated by deep digging, and heavy manurung. Many growers prefer row-planting, allowing about a yard between the rows. Plant firmly, obtaining strong canes, with a plentude of fibrous roots, and shorten to a uniform height. The weaker suckers should be excised in June, leaving about half a dozon canes to each plant. The ground round the plants or lushes should not be disturbed with the fork after they are conce established, but a good dressing of rotten manure may be given ainually. Actumn-bearing Raspberries should be kept rather thin. October Yellow is a very fine late sort; Glenfield is quite black; the Red and Yellow Antwerp, White Magnum Bonum and Carter's Prolific are all held in high esteem, and Superlative is worthy of its n

Stra wherry.—Strawberries must be cultivated in a deeply-dug and highly enriched porous soil, stdicently drained. Dark yellow loan, not at all stdicky, and thoroughly worked well before planting time in August, will give a good resultant. Plant the rooted runners from the nursery bed in rows 3 feet apart, allowing a foot between each plant. Bring them in the trowel singly, with a good ball, disturbing as little as possible in the operation, press down and round firmly, and water occasionally until new growth is evident. In the spring a good top-dressing of loam is helpful, and a few days later a mulching of long litter worked under the leaves will conserve moisture and keep the fruit clean when it comes to develop. Strawberry plants should never be permitted to get at all dry at the under the leaves will conserve moisture and keep the fruit clean when it comes to develop. Strawberry plants should never be permitted to get at all dry at the roots, and plantations must be renewed not less seldom than every third year. The old leaves may be advantageously cut away after fruit gathering, a mulching of short well-rotted manure being applied at the same time. Only a sufficiency of runners must be allowed to start off from the rows to serve for new plant raising, and the secondary runners of these should be chopped away and destroyed. It is bad policy to replant the layered runners, after their individual development elsewhere, in the parent-bed when renewal time comes. Then a thorough re-trenching and re-making of the beds should take place, importing plants from a distance, placing out your own raised runners in quite a fresh situation. Change of ground is good for strawberries. Royal Sovereign, Sir Joseph Parton, Vicontesse Hericart de Thury, and British Queen, are amongst the best early fruiting sorts; while for successional yield Froguiore Late Pine, Waterloo, Lord Suffield, and Wonderful, are all admirable.

Winas (Indoor).—To grow grapes thoroughly well

Lord Suffield, and Wonderful, are all admirable.

Vinae (Indoor).—To grow grapes thoroughly well
and with certainty in this country it is necessary to
have a suitable glass structure, and provision for
keeping up a proper temperature therein, either by
an efficient system of hot water apparatus or by
well-constructed flues circulating warnied air through
the house, such air being heated at an outside furnace
of proper dimensions and receiving regular attention.
The vinery may be small or capacious, according to
its owner's means or desiring, but it should be
well built, well placed, and well looked after. The
border from which the vine or vines receive nutriment
ought to be partly internal and partly external, and Its border from which the vine or vines receive nutriment ought to be partly internal and partly external, and its arrangement internally should form a supplementation of what has been advised for outdoor grape culture, continuing well over the floor of the structure, and in communication with the outside border made a directed. Planting of the vines may proceed internally as was indicated to be good practice outside sufficiently large apertures in the brickwork supporting the frame of the house having been left purposely for the roots to run through. Training of branching shoots of the indoor vines will be up the sides and beneath the glazed top of the house, instead of upon an external wall, the most important difference being that short rod or spur pruning will be permissible alternatives in after treatment. Indoor vine borders will require frequent watering will tepid water, and forcing must, when necessary, be managed with circumspection, fire heat being supplied gently at

alternatives in after treatment. Indoor vine borders will require frequent watering with tepid water, and forcing must, when necessary, be managed with circumspection, fire heat being supplied genity at first, and gradually wrought up to the requisite maximum, as much ventilation being afforded as a general rule as the weather will permit.

Walnut.—The wahust tree luxuriates in a deep sandy or calcareous loam, freely exposed to light and air. It is usually ralved from seed, and is improved by cutting off straggling growth in autumn. The old saying—"a woman, a dog, and a walnut tree, the more you thrash them, the better they be"—is most mischeding. It is essential that as little injury as possible should be inflicted when walnuts are gathered, fruit being borne at the extremities of the preceding season's shoots. Highlyer is accounted the best of the cultivated varieties.

Wineberry (Japaneses).—Liking a sunny spot, this delicous fruit, of intermediate flavour between that of the blackberry and the raspherry, is borne in August on the suckers of the previous season's growth.



C. A. HOUSE.

Editor of "The Poultry World," and author of "The Fantail Pigeon," "House's Canary Manual," &c. C C

# Pears' Dictionary of Poultry, Pigeons, and Cage Birds

## Edited by C. A. House

Editor of "The Poultry World," Author of "Amateur Poultry Keeping," "Bantams, and All About Them," "Pigeons, and All About Them," "House's Canary Manual," "Cats, Show and Pet," "Cavies: Their Varieties, Breeding, and Management."

## INTRODUCTION.

In a previous edition of this Cycloradia we spoke of the increased attention that was being given to the subject of poultry-keeping by British farmers and cottagers. That increase has been well maintained. Wonderful, indeed, has been the advance made in the breeding of high-class pure breeds of poultry, and astonishing have been the achievements of poultry-fanciers in the perfecting of the show points, not only of the old and strongly established breeds, but also of new ones as well. Some writers decry the poultry-fancier. The poultry-fancier is the man who has done more than any other to raise the status of poultry-keeping in the British Isles. If it were not for the poultry-fancier, whose one aim is to keep perfection and purity of breed to the front, the poultry of the country would soon degenerate into a worthless lot of mongrels. It is front, the poultry of the country would soon degenerate into a worthless lot of mongrels. It is only by keeping our breeds pure that advance can be made in the utilitarian properties of egg-production and poultry meat. Another benefit which the poultry-fancier confers on his country comes through the educational value of poultry shows, which generally speaking, are run entirely by poultry-fanciers. A man may read about the millions of pounds which we send out of the country each year for table poultry and eggs, and in the usual fireside manner will shrug his shoulders and think what fools British breeders are not to produce more eggs and poultry themselves. That is about the extent to which you will rouse the average Britisher in cold print; but take him to a poultry show, interest him in the beautiful colouring and feathering of the Plymouth Rocks, the Wyandottes, the Leghorns, and Minorcas, and his fireside interest departs. In its place comes a vigorous, wholesome enthusiasm. He asks questions as to egg-laying qualities of the different breeds, the fineness of their flesh, their adaptability to confinement. He then goes on to wonder if in his little suburban garden it would be possible for him to put up a house goes on to wonder if in his little suburban garden it would be possible for him to put up a house and run suitable for half-a-dozen, or maybe a dozen, hens, just to supply himself and family with the matutinal "new-laid eggs for breakfast." For the largely increased interest in poultrybreeding, thanks are due, as we have said, to the numerous poultry shows which are held in different parts of the country, and to the other numerous educational agencies which have been at work during recent years.

The most revolutionary incident in connection with poultry-keeping has been the introduction in recent years of what is known as ""he Intensive System of Poultry-Keeping." By the adoption of this system it is possible for any town-dweller who has a small yard behind his dwelling-house to indulge in the hitherto altogether impossible pleasure of poultry-keeping. dwelling-house to indulge in the hitherto altogether impossible pleasure of poultry-keeping. This system, as yet, is quite in its infancy, but it is being taken up with the greatest enthusiasm, not only by townsmen, but also by country people too. In fact, one gentleman has 3,000 hens being kept under the Intensive System. Briefly, we may say that this system is the keeping of large numbers of fowls in very capfined space, with no out-door run, but with an upper and lower chamber to the poultry-house. Special feeding is resorted to, but the great secret of success, so far as the Intensive System is concerned, is the admission of plenty of fresh air into the house, the constant attention to cleanliness, and the keeping of the hens always on the scratch. We have not space here to go more fully into details, but those wishful to pursue the matter further may obtain at the small cost of sixpence a most excellent little booklet by Mr. W. Powell-Owen; its title is, "The Intensive System of Poultry-Keeping," and in its pages are given illustrations of intensive house, boxes for growing green food by the process known as sprouting oats, chicken-rearing flats, and the other chief appliances. The Intensive system is quite a new thing, it is therefore too early to speak of results, but one is bound to confess that it gives evidence of

completely revolutionising poultry-keeping in this country.

We hear from time to time some sad stories of the experiences of those who have sought to supplement their incomes, or to obtain their whole livelihood by poultry-keeping. But from these we must not draw the moral that poultry-keeping will not pay. Poultry-keeping is a business, and, like any other business, it needs to be conducted upon businesslike lines. Any misdirected business comes to a smash, whether it be the breeding of poultry or the working of a diamond mine. Those who desire to indulge in poultry-keeping should first of all learn the rudiments of the art on a small scale before they launch out into wider fields. In other words, no one should enter into poultry-keeping on a large scale until he has first of all tried his "'prentice hand" on a few birds. Practical knowledge and experience may be gained from a small stud, and once the elementary principles have been mastered, the student can then enlarge his borders; but the novice who would be successful should commence in a small way, and then go on to higher things. At first there will not be much profit, but as experience is gained so the profits will increase. If proper care and attention are given to the work there will be no loss either in the early stages or in the later and more extended form. Failures in ninety-nine cases

out of every hundred are traceable to the adoption of wrong methods or to neglect.

With these preliminary remarks we may now proceed to set forth in dictionary form the various things which it is useful for the poultry-keeper to know. Our information is gathered from recent practical experience, and should enable those who study it to follow the pursuit with a reasonable chance of success. It is best not to expect too much to begin with, otherwise

disappointment may follow.

In the following sections the various breeds of poultry, including the bantam varieties, are first enumerated, and their points, peculiarities, and economic value briefly noted; following which comes a mass of closely-digested matter, as to poultry-rearing and treatment and the

appliances requisite to success in the keeping of fowls.

Ducks, both utilitarian and ornamental, are then dealt with similarly, and, in order thereafter, attention is given in a like manner to geese, swans, turkeys, guinea and pea-fowls. To make this Dictionary as complete a Bird-Fanciers Guide as is consistent with conciseness, pigeons are briefly noticed before passing to the consideration of the avian pets of the household

The Cage Bird section at the close will be found to comprise practical details concerning the different kinds of domestic favourites, foreign as well as British, and their management in health and ailment; with notes on the breeding and rearing of canaries, and the rest of the birds usually met with in confinement, on the stocking of aviaries, and the selection of cages, besides much other helpful information proper to the subject.

## BREEDS OF POULTRY:

## Their Points, Peculiarities, and Value.

Albions are the result of a cross between two Sussex breeds; are of white plumage, and make good table birds. In recent years they have been given the mains of white forpingtons, and are to-day one of the most popular breeds known. They are good layers of large brown eggs.

Anoonas are small, active fowls and non-sitters. They are probably the result of a cross between Black and White Minorcas, and the first specimens were brought from Ancona to Birtuan about 1884. They are of mottled black and white plumage and yellow legs with black spots; single combs; good layers of white eggs in summer, but not remarkable for table qualities.

Andaluslans are a beautiful Spannsh variety of slavy-blue brown colour, with very beautiful daying of a beautiful statement of the season of the colour, with very beautiful control of the season of the colour, with very beautiful control of the season of the colour, with very beautiful control of the season of the colour, with very beautiful control of the season of the colour, with very beautiful control of the season of the colour, with very beautiful control of the season of the colour, with very beautiful control of the colour, with very beautiful control of the season of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour of the colour

They are only moderate layers, being chieff are show purposes.

Bakie, a local name for the Dumpie breed so popular in parts of Scotland.

Bantams are kept more for pleasure than profit as a rule, but there are many beautiful varieties, both in the game and other sections. They are the result of carefully selected small "sports" of the larger varieties, freaks in reality, encouraged into perpetuation by sinciers, especially in Jajan. Thus we have Black Rose-comb Bantams, the Black Hamburgh in diminu-

tive; and the Game varieties are also dwarfs of their fully-sized progenitors; the Old English Game Bantam is one of the most popular of these dwarfs; White Rose-combs, Booted (mamly white, though blacks have been shown), Plymouth Rock, Scotch Grey, Silver-spangled Hasburgh, Partridge and Silver-pencilled Wyandottes, Brainnas, Leghorns, Minorcas, Anconas, Audalustans, Japanese, Nankin, Frizzles, Cochin, formerly known as Pekin, and Sebright Bantams, the latter with their pretty lacing on the beautiful gold and silver ground colours. All have their admirers and exhibitors.

admirers and exhibitors.

Bolton Greys, a Lancashire local name for a variety of the Silver-pencilled Hamburgh.

Brackels are a Belgam breed; practically the same as Campines, but generally rather larger in body, and coarser in its markings. Not a good table bird, but a coordinate of the control of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of the coordinate of

but a prolific layer.

but a prolific layer.

**Pahmas are a fine Indian breed which attain a good size, but have fallen off considerably in recent years in point of quality. They are large, of erect bearing, and heavily feathered. There are two varieties, light and dark, the light variety being the best. The eggs are large and brown. They consume much food, and are frequent sitters.

**Pardas** are a French breed of fowl, sometimes styled Gueddres, not much favoured in Britain, slightly crested, large wattled, and resembling the Polish variety in general characteristics.

**Brown Leghorns**, (See Leghorns.).

**Brown Red Game.** (See Game.)

**Butteroups**, Sicilian. (See Sicilian Sutseroups**, Sicilian.

tercups.)

770

Campines are a Belgian breed, small, active, non-sitters; they have barred plumage, single combs, and slate-blue legs; are good layers, and useful when young for table purposes. There are two varieties—Silver and Gold, the former being most in favour.

Chitagong, an Indian fowl, large in size, of the

Brahma class.

Chittiprat, a Yorkshire local alternative name for the silver-pencilled Hamburgh.

Cochins. These are well-known members of the fancy variety come from China; large, bulky, of low carriage, pronounced cushion, and heavily feathered. There are five varieties—buff, partridge, cuckoo, white, and black. Buff Cochins are the most popular. They are neither good table birds nor good layers, but produce a fair number of egg, in winter, and of large size. They are good eaters, and are mostly kept for show.

large size. They are good eaters, and are mostly kept for show.

Columbian, a black fowl, a cross between the Malay and Spanish, very hardy, glossy plumaged, and a layer of enonious eggs, now rarely heard of.

Coucou de Malines are a Belgan variety of not much value except for the table.

Courtes-Pattes, a short-legged, bearded French breed; good all-round fowl, but seldom seen in England.

Creels, or Creoles, a name sometimes given in America to the Silver-pencilled or Silver-spangled Hamburgh.

Grewe-Cours are a black-plumaged French breed, very popular in its own country, but not over well suited to our climate. They have a two-horned comb and large crest. Good layers and table

Danwars White, an American breed formed by crossing White Dorkings with Buff Cochins; a good fowl for laying and hardiness, but superseded by the White Leghorn.

Domingues, one of the oldest American breeds, cuckoo marked, rose combs, four-fold, yellow-legged, hardy, excellent layers, good table-birds.

Dorkings are the oldest English breed; square-bodied and deep-breasted; most valuable for table

bodied and deep-breasted; most valuable for table purposes, but not very good layers. Much used for crossing with game to produce table birds. There are four generally recognised varieties—dark, silver-grey, white, and cuckoo—and several other little-known types, such as the red. The usual weight of a cock is from 7 to rx pounds, and the flesh of these birds is of excellent quality. The eggs average over two ounces.

Duckwing, a class of game fowl, in two distinct varieties, yellow or golden, and silver-backled; both are beautiful, and possess all the good table-points of the came breed generally. There are also Duckwing

are beautiful, and possess all the good table-points of the game breed generally. There are also Duckwing Legiorns.

Du Mans are a black, rose-combed, French breed, almost entirely bred for utility.

Dumples are sometimes called Go-laighs or Bakles, and are much in favour in Scotland; they have large square bodies and very short legs; the colourng varies. Both good layers and table birds.

Faverolles are a modern French variety at present in great favour. There are two varieties—salmon and ermine, the former being most generally met with in this country. It is a first-class table bred. Its great claim to recognition is the early maturity of the chicken. the chicken.

Friszles come from Eastern Asia, and are remarkable for the peculiar backward curl of their feathers. Their plunage is commonly white, but there are also brown and black specimens. They are only moderate

Game Fowls are usually poddayers, but capital Game Fowls are usually pool-Byers, but capital sitters, and the hens make good mothers. Splendid table birds, their chief objection is their incorrigible pugnacity, which hardly seems to have abated since the cruel old cock-fighting times. The old English game fowls are largely used for crossing with other breeds, and the Game-Dorking hybrid is about the best early-developing table-bird we have. The leading varieties of Old-English Game Fowl are the black-red, brown-red, piles, duckwing, black, white, henny, birchenyellow, and ginger-red. The modern Game Fowl is of little use, except from an exhibition standpoint.

Gondook, a handsome variety of the Rumpiess fowl, black and upright, very lively and irdiescent of plunage, very rarely met with.

Hamburghs. There are five principal varieties—black, silver and gold pencilled, and silver and gold spangled. They have a large rose-comb with long and pointed spike, and large, round white lobes; the legs are a dark slate blue, except in the black, which should be darker, approaching black; they are non-sitters, and fairly popular for show purposes. They are more appreciated for their beauty and activity than for their other qualities, although they are good layers of white eggs. Cuckoo and White Hamburghs are both occasionally met with.

Henny Game are a variety in which the cockbirds have straight tails and plunage like the females, and have been bred true for many years in Cumberland, Westmorland, Devonshire, and Cortwall. The hentalled stram of Sebright Bantams is founded upon this peculiar variety of fowl.

peculiar variety of fowl.

peculiar variety of fowl.

Houdams are a popular and precocious French variety, with heavy crest and bib and curious leaf-shaped comb; plumage similar to the Aucona; a good layer of white eggs, and a very useful table-bird; makes a very good cross with Game or with Orpingtons; not very popular for show. The economic merits of this fowl are very great.

Indian Game. a burg-bound member of the

Indian Game, a huge-bound member of the Asiatic Game family; very heavy, fair layers of buffer eggs, most useful for crossing with Dorkings, Orphactons, and Faverolles to produce table-chickens. Good stters and excellent nurses. Fopular for show.

suters and excellent nurses. Popular for show.

Japanese Bantams are pounpous looking little
white birds, with straight black tails, laced with white,
and very short yellow legs. Some varieties have been
exhibited in speckled and cuckoo colouring.

Japanese Long Talls. A bird somewhat like
the old English game fowl, save in the poculiar respect
of the tail of the male, which sometimes reaches a yard
or more in length. They are somewhat, delicate, and
quite unfitted for an English utility poultry yard.
(See Yokohamasa). (See Yokohamas.)

(see forconamas.)
Jawas are an American production; large, good layers of coloured eggs, and a nice table-fowl; three varieties; black, white, and mottled; little known in England, but worthy of attention.
Jersey Blues. American, Plymouth Rock shape, and Andalusian shaped plumage; not of much merit

Jungle Fowl. The wild poultry of the Orient, supposed by many to be the originator of all the modern domesticated breeds.

Klondyke. An American mongrel production, with much Silkie blood; white; has been shown in England, but gained little or no favour.

England, but gained little or no favour.

La Bresse. A French breed of the highest table quality. Two varieties, grey and black; good layers, but rarely sit.

La Fische. A black French breed, with two-horned comb, but no crest, famous as a table bird, remarkable for fineness of fiesh, good layers, but

Lakentelders are a comparatively recent importation of Dutch or German origin, with white body and black hackle and tail; very small, good layers of white eggs; enjoy faur popularity; but are very wild and rather dedicate.

Lancashire Mooney. Local name for the

Langashire Mooney. Local name for the Hamburgh fowl.

Langashans. Originally came from a district in Chuna on the Yangte-Kiang, and have proved a very valuable breed. They have brilliant black plumage; are very good layers of rather small, dark-coloured eggs, and are of capital table quality; the original type had moderate length of limb and big body, but birds bred for show nowadays are much taller. A strong effort is now being made to popularise theoriginal type.

Leghorns. A rather small, non-sitting, active, Italian breed; very good layers of large white eggs; heavy combe and large white lobes; several varieties—white, brown, buff, blue, black, pile, golden duckwing, silver duckwing, and cuckoo; most of these enjoy considerable popularity for show. As layers they are

generally unsurpassed and are hardy, useful birds, though not specially good for the table.

Le Hame. A small-crested, French fowl, of the Crève Cœur, or "split-heart" comb genus.

Lincolnabire Buffis are a local breed of poultry, large and fine-breasted, overshadowed of late years by the Orpington class, which possess the best table qualities of the older variety, besides being better lawers as a rule.

layers as a rule.

Walays. A big-limbed variety of the Asiatic ame family, bred mainly for show purposes.

Handhesters. Alternative name for the Rose-

comb Blues.

Emperors are one of the best breed of domestic poultry. Medium sized and of Spanish origin; large single combs and white lobes—very good layers of large white eggs; highly recommended for sheltered runs; very popular for show; white and black, nonsitiers. Not of much use as table birds.

Ecdara Game. Very tall, evolved from the Old Inglish Game, and bred solely for show; very popular, several varieties—black-red, brown-red, pile, ducking, birchen, white, black, etc. (See also Game Fowls.)

Fowile.)

Roonay. A Lancashire name for the Hamburgh; the Golden Mooney and Silver Mooney are the yellow and white varieties respectively.

Raked Mecks. Curious variety of Transylvanian origin, with necks devoid of feathers; several colours.

Rankin Bentams. One of our oldest breeds, and seldom seen nowadays; they are of a cinnamon hus in colour, and are believed to have been the foundation of many other varieties, especially Sebrights and Game.

and Game.

Negro Fowl. The Silkles are sometimes so styled because of their very dark skins.

Old English Game. The original type of English fighting game; shapely and handsome; fine firshed for table, and very valuable for crossing; still very popular for show; several varieties, black-red, brown-red, spangled blue, blue-red, burchen, brasy-back, black, Furness, tassled, crele, henny, etc., with variations in the females.

Orlotte. A Russian breed; large, very big

Orloffs. A Russian breed; large, very hig heads, with beards and muffs, useful for general

purposes.

Orpingtons. An English composite breed, and one of the most popular of the day, originated by Mr. William Cook, of Orpington. Lay well in winter, and are very valuable birds, of great size and cobby shape; very hardy, and good layers of brown eggs; capital table birds; highly recommended. Several varieties—black, buff, white, Jubilee (a tri-coloured variety), and spangled. There are both single and rose-combed Orpingtons, and the former are favourite exhibition birds.

Pausbacken. A German breed, little known in

England.

Fayloff. Russian, believed to be the original of the Polish breed; little known.

**CHARLES AUSSIAN, DEHEVED TO BE the original of the Polish breed; little known.

Phensant. A Yorkshire local alternative name for the Hamburgh breed of poultry.

Phonnix. A same given at times to a variety of the Japanese long-t-side flow.

Plymouth Rooks. A splendid American composite variety; large, tall, handsome, rich orange-yellow legs, and moderate single cound; splendid layers of brown eggs summer and winter; mature early; are capital sitters and mothers; good table birds, but yellow skin; very popular for show. Four varieties—barred, white, buf, and black. The latter, thus far, have not been very popular, but are now being brought very prominently to the front, and are proving themselves most valuable as a general all-round flow. A Rose-combed variety has in recent years made its appearance, but has not been popularly received.

Polish. A very handsome crested breed, of Conti-

received.

Polish. A very handsome crested breed, of Continental origin; very popular in France and Holland; good layers and hardy if they can be kept from wet; non-siture as a rule; chickens rather delicate; svera-wite; black, sliver, gold, white-crested black, baff-laced or chamois, blue-laced, otc.; has curious formation of skull.

Ramelalohars.—German breed, useful for general purposes. Bred little in England.

Redcaps. An English breed of the Hamburgh type, but with very heavy rose-comb, found in Derbyshire and Yorkshire; capital layers of large eggs,

shire and Yorkshire; capital layers of large eggs, winter and summer, pullets soon begin to lay; plumage gold spangled with black.

Rhode Island Reds. American, large, long, deep bodies, rich chestnut-red colour; valuable all round breed; yellow legs; rose and single combs.

Rosacomb Blues. An English type of laying fowls; wery large. Good layers; met with m fowls; layers and layers.

Lancashire.

Rumpless. Are a curious breed without rump and tail formation. They are of several colours; met with in several parts of the world, and may be attributed to a freak of Nature; occasionally exhibited. Not a very useful bird.

Scots Greys. A Scottish variety; barred plumage like a Plymouth Rock, but white legs spotted with black; good layers and table birds. A fine allround fow

round towl.

Sabright Bantams. Handsome little birds, the type of which was founded by the late Sir John Sebright, by first crossing butween Polish and Nankin Bantams, to get the lacing of the former and the smallness of the latter, and then with a dwarf of the "henny" game species, to obtain the "henny" lackles and tail of that fowl. Thus the Sebright type was secured, and there are gold and silver sorts, both responsible.

Sherwoods. A large, white American breed not common in England, slightly feathered yellow legs, good layers and table birds; lay large brown eggs. Highly spoken of.

silenes are supposed to come from Japan; every small, with white, silky plunage and curious mulberry combs and slightly feathered legs; popular for slow, especially among ladies; most useful as sitters and mothers for Bantam chickens or pheasants. Skin very dark. Hardy, and lay cream-coloured eggs.

Siliolan Buttarcups. An old Italian breed "Ucelle of Jorre" [flower bird], or "Longth Sicilian," meaning Sicilian spot. Introduced into America about

sixty years ago, but for the last twenty years seem to have disappeared. Interest in them was revived myr, and a club formed. English breeders became interested, and in 1973 birds were introduced into Fingland. They are essentially utility birds, being exceptionally good layers. In shape they take after the other Italian breeds, such as Lephorus, Andalusians, Minorcas, and Anconas. In colour the cocks are somewhat similar to Rhode Islands Reds, but not quite so dark. A rich bright red is what is required. The hens should be a rich deep golden builf, nottled with black. The legs should be willow green. The name comps from the comb, which is altogether different from any other known breed of poultry. It is cup-shoped, with a row of spikes round the oup.

Silky Cochins. sometimes styled "Keni" famile

Bilky Cochine, sometimes styled "Emu" fowls, are a rare variety, in which the webs of the feathers have no adhesion.

have no adhesion.

Spanish, similar to Minorcas, mostly blackplumaged, with large white hanging faces; once very
popular for show, but now only occasionally seen; good
layers of large eggs. Like Minorcas again, there are
white varieties of Spanish, but they are very uncommon.

Suitans.—Very beautiful small white breed from

Turkey; large crests and bibs, flowing tails, and heavily feathered legs and feet; not very popular, because of the difficulty of keeping them in good plumage. Good layers of large white eggs; small eaters and non-sitters.

eaters and non-sitters.

Sumatra Game. A sprightly black variety of
the Eastern Game family; capital layer of white eggs,
now becoming popular in England.

Surrey Fowls, so famous for their fine table
quality, are chefsy identifiable with the Dorking breed,
or are crosses of that fine bird and some other variety.
They are grown on rapidly as chickens, and then
fattened for market by "cramming."

Sussex A type of utility fowl largely bred in
Sussex for producing table chickens. In recent years

have become very popular as show birds. Four varieties, red, speckled, light and brown.

**Wyandetses.** A splendid and comparatively new American composite breed; shape something like a Brahma, but do not carry so much body feather, and are clean legged; they have rose combs and yellow legs; many varieties—silver-laced, gold-laced, white partridge, buff silver-pencilled, buff-laced, blue-laced,

black, cuckoo, and Columbian. Splendid hardy winter layers; good table-fowl; has high economic merits; highly recommended and very popular both as utility and exhibition; are good setters and most

careful mothers.

Yokohamas are fine long-tailed birds from Japan; rather rare; good layers. (See Japanese Long-tails.)

## POULTRY MANAGEMENT IN HEALTH AND DISEASE.

Accommodation.—The numbers and character of the fowls kept should be suited to the accommodation, as to runs and housing, which can be provided for them. Overcrowding will lead inevitably to fouling of the ground, disease in the birds, and disastrous failure. (See Houses, Runs, etc.)

Ale is sometimes mixed in the meal, of which the soft food for fowls is formed, to give the birds extra brightness and spirit, but the practice is not one to be recommended save as a restorative expedient, and then there are many things more suitable than beer for the purpose.

for the purpose.

Appliances for poultry-keeping need never be elaborate, provided they are always practicable and utilitarian. Plain and home-made fitments for runs well, if utilitarian. Plain and home-made niments for runs and fowl-houses nearly always answer as well, if contrived with ordinary ingenuity, from the materials convenient to hand, as costly appliances from the hardware manufacturers and poultry-appliance devisers whose multitudinous utensils and superfluities are on view at shows and stores. (See Water Troughs, Winter Management, Coops, Incubating,

Bantam Keeping, save for the sale of choice exhibition stock, is not a hobby pursued for profit's sake. The mdget fowls are much more ornamental than utilitarian, but they are engaging in their habits, and give delight to the children of the family and otten to the grown folks too, especially those of the gentler sex. Bantams require little house room, and cost little to keep; but most sorts can fly high and easily, so that it is prudent to keep their runs wired over or covered somehow. Their eggs should be hatched by themselves or little fowls like Sikkies, and selected small come should be fed to thum with canary and other bird are by prudent to keep their runs when over or covered as omehow. Their eggs should be hatched by them selves or little flowls like Sikkes, and selected small corn should be fed to them with canary and other bird seed, milk-sops, boiled rice, rolled in dry meal, and cut-up kitchen scraps. Shape and feathering being correct in the many varieties of Bantams, smallness is the thing to achieve, therefore breeding should be from the most diminutive stock. Save for the adaptation of all things to size, no variation need be made in the general treatment of bantams from that which is requisite for larger breeds of poultry.

**Barndoor*** Fowls are haplazard mongreis, hardy but not psofitable, that is to say, not so profitable as those upon the selection of which a little trouble has been expended. They eat as much as the more reliable and purely bred or carefully crossed birds, and herefore their keeping is not to be recommended.

**Biack Breeds** of fowls are well suited for town fanciers, because their plumage is not susceptible to damage by the grime of an urban atmosphere. Here the Minorcas, Leghons, Crève-Cœurs, and Spanish come in, also the Orphigtons of ebony shade; the Langshan is good, too, save for the cylcumstance that its feathered foet are apt to get cloffed and shabby-looking in a limited run range. And all the black breeds almost lay very large white eggs, and endured close confinement well if properly attended to.

**Bonedians** is a valuable help to the securing of stamms in fowls inclined to leg-weakness. It should be ground from clean dry bones to the consistency of stamms in fowls inclined to leg-weakness. It should be ground from clean dry bones to the consistency of stamms in fowls inclined to leg-weakness. It should be ground from clean dry bones to the consistency of stamms in fowls inclined to leg-weakness. It should be ground from clean dry bones to the consistency of stamms in fowls inclined to leg-weakness. It should be ground from clean dry bones to the consistency of stamms in fowls inclin

countries and the varieties obtained by crossing them, the leading sorts are the Spanish, Minorcas, Andalusian, and Leghons, all long and clean of leg, profile eggproducers, and comparatively poor table-birds. Other good layers are the Hamburghs, Houdan, Langshans, Wyandottes, Plymouth Rocks, Orpingtona, Game, Brahmas, Cochins, La Flèches, and Polish. Quality of meet is found at its best in the Dorking, Game, La Flèche, Greve Cœur, Wyandotte, Orpington, Brahma, Houdan, Polish, and Langshan. Size and weight are afforded in the Dorking, Langshan, Plymouth Rock, Orpington, Crève Cœur, Malay, La Flèche, Cochin, and Brahma breeds; the two latter, however, expend a great deal of their food energy upon feather-production. If hardiness be a chief requisite, all things considered, Leghorns perhaps come first; and in order thereafter Houdans, Wyandottes, Orpingtons, Brahmas, Langshans, Cochuns, Minorcas, and Andalusians. For stiting and mothering surposes combined, the approved order in pure breeds may be thus given:—Dorking, Game, Dumpies, Silicis, Brahmas, and Cochins. For all-round purposes, Langshans, Orpingtons, Brahmas, Houdans, and Plymouth Rocks are good; and so are well-selected crosses such as the Langshan-Minorca. If the rown-shelled eggs are desired, Cochins, Brahmas, Orpingtons, and Wyandottes are well in the running. (See also Crosse-Bred Fowlis and Table Poultry.)

Broody Hens signify their desire to engage in the natural business of nichtification by going "on the cluck." Should this be the time when the fowl-keeper desires to commence a sitting all well and good. Give the birds their complement of eggs in proper nest boxes, placed in a retired position; the hens will do the rest. But if you don't want them to sit, don't drive them about, or put them barbarously into water, or try to starve them to you way of thinking.

sit, don't drive them about, or put them barbarously into water, or try to starve them to your way of thinking. Get a small coop with a barred bottom and front; stand it on four bricks in a sunny corner. Place the bird in it in full sight of other fowls and feed it well for three or four days. Unable to sit down comfortably it will soon get over its broodiness, and become lively on being restored to liberty, and commence laying again abortly. But every hen of sitting propensity should be permitted to nest now and again, if only for the rest it gives the birds; forcing egg-production and interfering with the laws of Nature too much is harmful.

Buying Fowls is an important matter to the small fancier. He should only buy what he really wants and at the time best suited to his own convenience. These matters having been settled, tet him.

want indicer. He should only buy want he ready wants and at the time best suited to his own convenience. These matters having been settled, let him, if possible, go, money in pocket, to the stockyard of a breeder, make his own selection, pay a fair price for the birds he burys, and get them home to the accommodation he has previously provided. Or by watching the advertisements in the poultry papers of the reputable raisers, and communicating with them by letter, he can always get his wants satisfactorily supplied in these competitive days. But he should sedulously avoid unknown advertisers, who purport to be underseiling the regular breeders. That way swinding lies. The same caution applies to the purchase of egg settings: go always where there is acknowledged reputation at stake if you want to save yourself loss and vexation, remembering that the best is the cheapent in the long run.

Garriage of Eggs.—Eggs for transit by post or

end should be sent in light strong boxes. Specially made boxes are readily procurable, with aliff card partitions, but any box of suitable size and rigidity will serve. A good plan is to put an inch of bran at the bottom, wrap each egg loosely in soft paper, place them about an inch apart and an inch from the box sides, filling in all round and covering with bran; them lay a soft sheet of paper down gently before screwing or cording on the lid, as the farring of driving nails sure to do damage. Mark the box "EGCS," guard against avoidable delay on journey.

Cassos Gill used frequently to be given as a purgative to flowis, but the late Mr. Lewis Wright, a great suthority on the subject, who put the matter theroughly to the test, pronounced strongly against to use in the poultry yard; salts or jalap he recommended as aperients in preference where accessary, with the advantage of being followed by seatar listena Esarving.—For the first day newly-hatched chickens need no food. After twenty-four hours, having first fed the old hen to keep her from gobbling up the delicacies intended for the chicks, give them some chopped hard bolled egg mixed with crumbs or meal moistened in milk, but not made at all pappy, putting mother and progeny under a coop, with a covered clipped grass run in front of it if possible, crumbling the food down on to a board in front of the coop bars, and continuing the feeding just as long as the little ones will pack it up with avoidity. After a few days, instead of milk for damping the soft food water will serve, and a few scraps of well chopped cooked ineat will be very elephia, while there nust always be finely-cut green food as well, if plenty of firesh grass is not obtainable. Also clean fresh water so placed, that the chicks cannot get their feet into it. Little and very often is the motto for successiu chicken-feeding. At the end of a week give one of the many chicken meals which are on the market alternately with the mixture of varous small grains known as "Dry Chick Feed." There are on Simes grit about to help the working of the gizzard. Let the chicks run and scratch with the old hen till they are six weeks to two months old. The roosting places provided for them must be quite free from draughts and damp, the worst enemies of chickenhood. They should bed on clean straw or dry moss places provided for them must be quite tree moranghts and damp, the worst enemies of chickenhood. They should bed on clean straw or dry mospet till they can perch properly, or their breast bones may become crooked. So soon as the cockerels commence to crow they should be taken away from the pullets, and if the young gentlemen become overpuglistic, as they sometimes will, it is time to separate them. At six months old, a little extra meat may be fed to the pullets daily, with an occasional mixing of stimulant spice in the meal, to bring on laying. Bone meal may be introduced also twice a week into the soft food for both cockerels and pullets advantageously to assist the upbuilding of their frames; and coops and fowlhouses should be kept clean with disinfectant and insecticide, a little sulphur being rubbed under the wings of the chicks and about the head, neck, thighs, and rump, to keep the lice and fleas away.

Chilled Regs. so rendered by the vagrancy of the sitting hea, a misfortune to which they are liable if the absence of the sitter is more extended than half an hour, or even less in very cold weather, can orden be put to rights by immersion in water warmed to one hundred and five degrees or a little over, being kept there until the errant hen has manifested readiness to resume her place on the nest, or some substitute has been seved. Many an unhatched chicken's life has been seved. Many an unhatched chicken's life has been seved. Many an unhatched chicken's life has been seved. Many an unhatched chicken's life has been seved. Many an unhatched chicken's life has been secured. Many an unhatched chicken's life has been secured. Many an unhatched chicken's life has been secured. Many an unhatched chicken's life has been secured and the flows it was and specially the perchast clear of dirt and verminous insects, the nest boxes whisewashed and the nests frequently renewed,

and the birds provided with a dust bath without the regular use of which they cannot be comfortable.

Goekarels must be either killed off, sold, or provided for separately when they begin to give rouble. They may run together in little society divided from the pullets, until they are quarrelesome; then, unless "mated up," they must be penned apart, each with his own little house and run.

Gondimants, or Chickens Spices, are very good in their place, when the birds are "a bit off colour." Cayenne pepper, ginger, aniseed, plunento, are all used in the prepared powders of reputable vendors given with sugar, according to directions on the package, are usually reliable.

Goops may be of varied form, but they should never be too small, and always rain-proof, free from draughts and dry as to the flooring, being slightly mised above the ground, ventilated towards the top, and fitted with a sliding from to give complete production in bad weather. Also they must be constantly sweet and clean, whitewashed and disinfected withing and placed, if possible, on a sunny grass plot, sheltered and placed, if possible, on a sunny grass plot, sheltered aweet and clean, whitewashed and disinfected within, and placed, if possible, on a sunny grass plot, sheltered from wind, with a si-ping board running up to a broadlsh sill in front of the bars; the slope to afford easy access to the sill on which the food for the little cnes is scattered in their early days, and where the fresh water for their drinking is placed in a simple fountain. These are the only essentials.

Crooked Braasta usually come from encouraging confined birds to roost too early and on too narrow merches. Keen the vountsters to the floor, on straw

fountain. These are the only essentials.

Grooked Breast susually come from encouraging confined birds to roost too early and on too narrow perches. Keep the youngsters to the floor, on straw or litter, till four months old if you can, then let the perches be stout enough to support the breast properly as the birds squat to roost. There is no remedy—save the hatchet cure or killing.

Grop bound may be a distressing condition in row a rising from the swallowing of a bone or some other hard and indigestible substance, giving rise to obstruction. It is more an accident than a disease, and may need a simple operation for its relief. First try pouring warm water down the sufferer's threat, with patient and continuous kneading of the crop. If this does not afford the requisite relief, make a careful incision near the top of the crop about an inchlong, and remove the contents gently with a small spoon, stitching up the wound nucely with a glover's needle and horsehair thereafter, the stitching of the outer skin crossing that securing the inner membrane.

Gross-Bred Fowls may be well worth keeping if the crossing be accomplished intelligently, the sorts and the individuals being properly selected for a given purpose. One good cross producing hardy offspring is the Houdan-Minorca. The pullets lay good-sized white eggs prolifically all through the winter. The Houdan-Leghom cross is also satisfactory, and the laying capacity of the Buff Cochin can be considerably enhanced by crossing with the Redeap, the progeny of the two being handsome, and well-suited for a limited run. The Langshan-Minorca cross gives a capital combination of white, juicy meet for the table and big rown eggs for the basket. A Dorking cock run with half-bred Indian game pullets will produce immense and fleshy poultry, mainly white-legged. The Houdan-Dorking is a fine table cross, too, white of skin and flesh, the pullets laying white eggs. Orpington pullets themselves good layers, mated with a Houdan cockere, will give chicks which mature quickly and m

second cross.

Delicacies for Moulting Birds.—Mix three quarters in weight of oatmeal to a quarter of bran, and pour over boiling water. A little chopped-up mean may be given if in small quantities. Leave to swell near fire or in over for half an hour, and mix will near fire or in over for half an hour, and mix will near fire or in over for half an hour, and mix will be qual quantities of pollard and pea meal, or split peas boiled sort. Hemp seed may be given two or three bimes a week, and buckwheat is very good. A tonic in the water often helps. A little Epsom saits, or what is known as Douglas's mixture—iron and sulphuric acid. A lump of sulphate of iron and three drops of acid to each gallon of water, or a teaspoonful of tincture of iron will do as well.

#### DISEASES OF POULTRY.

Poultry are liable to many ailments, more or less serious. The principal diseases which trouble the poultry-keeper and his stock are grouped together alphabetically here for convenience, with brief directions for treatment.

Abortion.—If a hen gets dropping her eggs about, often shell-less, and moves continually, fasten her up awhile alone in a pen with a nest in the corner, give her soft food and a little bi-carbonate of soda in her

awhile alone in a pen with a nest in the corner, give her soft food and a little bi-carbonate of soda in her drinking water. She may have been classed about by a spiteful "gamey" hen, or persecuted by one of the opposite sex. Remove the culprit.

**Apoplexy.**—Cause: over-feeding and excitement effect, generally swift fatality. Sometimes a cure may be possible if bleeding from the vein under the wing be promptly practised, with jalap and salrs aperient, quietude, and spare diet to follow for awhile.

**Black Rot.**—Symptoms: blackening of the comb, feet and leg swelling, emaciation. Treatment; purge and 'give warm stimulant food, rubbing carbolised vasseline into comb and legs.

**Bronchitis** is differentiated from an ordinary cold by coughing. Isolate, put nitric acid sparingly into the water, sweetening slightly with glycerine. Cayenne and ginger in the suit food.

**Bumblefoot.**—Not uncommon in heavy fowls, and arises from a growth under the ball of the foot. Cut away carefully, and if suppurating, dress with antiseptic after cleansing, bunding to exclude durt.

*Canker.**—Symptoms: ulceration about head and cars, with discharge from the eyes, watering first, then thicker and fortid. Fluid carbolate, with lead lotton oliment, may effect, a cure.

*Catasrph*, or counion cold, may be prevented from developing into the decaded Roun by early isolation.

Catarrh, or common cold, may be prevented from developing into the dreaded Roup by early isolation in a sheltered corner; two or three drops of functure

in a sheltered corner; two or three drops of tincture of aconite and soft warm food.

Cholera.—Chicken cholera is a deadly disease, commencing with a greenish discharge, becoming later white and watery, and accompanied with excessive thirst. Isolate in the shade, disinfect the water though and replenish often with clean and quite cold water, giving fresh green food and small doses of cholera mixture from the chemist's.

Comb Diseases.—Black rot. chiefly attacking Spanish fowls, has been noticed; White Comb trouble Cochins mainly, and is characterised by white spots which extend to the neck, causing feather-shedding, Treat as for Black Rot, save that a lotion of turmeric

and coco and oil is sometimes serviceable.

Consumption, or "going light," is a wasting disease, which can rarely be arrested; but hypophosphates in the food and cod-liver-oil in the meal or with is a wasting quinine in capsules may overcome the tendency if treatment be commenced early enough.

treatment be commenced early enough.

Cramp is caused by exposure to damp or
running over saturated ground. Remove the fowl to a
dry warm house, with boarded floor, strawed or mosslittered, plunging the legs first into warm mustard and
water for a few minutes, drying well. This flay be
repeated occasionally until improvement is shown.

Crops—Soft or Swollen. Usual cause, over-drinking
from morbid thirst. Isolate; feed sparingly with soft
food containing stimulant spice, and give a very little
water after meals with nitric acid in weak solution.

Dabilities—Raw every down the threat two or

water after meals with nitric acid in weak solution.

Debility.—Raw eggs down the throat two or three times a day, cooked lean meal, chemical food, cod-liver-oil, a tenspoonful wice a day; such generous treatment may save the life of a costly bird; others so affected should be destroyed.

Diphthearia is a form of canker with internal ulceration. Isolate at once, give an aperient, feed on unperpered soft food, dress the interior sores with a camel-hair brush dipped in carbolic and sulphurous acid in iron tincture and giveerine, and dust the exterior ulcera, after cleansing, with iodoform. A little brandy in the food may help; but it is only worth while taking this trouble with very valuable fowls.

Dysantary is something worse than diarrhosa, and not so bad as cholers, and should be treated similarly, but a little less vigorously, than the latter.

Elaphantiasis attacks the fowls with large and coarse scales on the shanks chiefly, and may be contibuted to by sudden exposure to very cold wet. It takes the form of unsightly scurf and encrustation of legs and feet, and is very contagious. Curable only in the onset stage, the treatment is carbolised oil or diverine ointment, after scrubbing with soap and toold glycerine ointment, after scrubbing with soap and tepid water, with weak sugar of lead as a last resort. The birds should be kept on dry ground and given stimulant

Eruptions usually arise from confinement and uncleanliness: correct the uncleanliness, give plenty of green food, especially chopped dandelions, put powdered sulphur in the soft food, and dress the affected parts with carbolised vaseline. Constant scratching of the head is a symptom.

Figs. Try dripping cold water over the fowl's head from the tap, or bleed under the wing.

Gapes. Cause, worms in the windpipe, a frequently fatal allment of small chickens. Place camphor in the water; strip a small quill feather, moisten it with turpentine, introduce it into the trachea, and withdraw it with the worms adherent, which destroy. Patience may succeed. There are generally ticks on the heads of chickens with the gapes; destroy these with mercurial ointment.

Giddiness, like fits, may be incipient apoplexy. It is manifested by the chick or fowl running dated as

in a circle; treat as advised for fits.

Gout. Swollen and inflamed feet and legs indicate gout. Keep the bird dry, feed up with green-meat, give an aperient, and a half-grain colchicum extract

Indigestion,—See the grit-box is well supplied; this complant usually arises because the gizzard is not working right. Feed moderately on soft food, with a very little lean meat, and give half a pill of rhubarb occasionally.

wery hittle lean meat, and give half a pill of rhubarh occasionally.

Inflammation of Rump,—This usually occurs in the pland above the tail where the secretion which fowls use for keeping their feathers sheeny is stored. Open with needle, squeeze out suppurating matter, and foment with warm water, afterwards cleansing with antiseptic solution. Repeat if necessary.

Leg Wakiness.—When young birds, especially of heavy breed, outgrow their strength, and squat about on their hocks, bandy legs or knock-hance may result, quite spoiling the bird's appearance. Generally there has been improper feeding. Put some bonemeal in the food of the cockerels and pullets, and give them plenty of barley-meal and sound corn, with cod-liver oil and chemical food, and a little lean meat. Also let there be plenty of oil, lime rubbish and crushed oyster shell within the reach of the birds.

Liver Disease arises from over-stimulation, confinement, and damp, and is most frequent in the larger Asiatic breeds of poultry. It is heredikary, and birds known to be tuberculous or torpid of liver should never be bred from. Green food and careful distary may ward it off in early stages, but if the liver complain has got well hold, as indicated by consistently yellow droppings, kill off the sufferer.

Pale Yelk in eggs may point to lack of sufficient green food. See to this.

Perfecunitis may be suspected when a hea, in full lay, with a bright red comb, manifests paln and distress. It is inflammation of the abdombal lining membrane, produced perhaps by over-stimulation of the ovaries. Sometimes holding the hear is a covered

distress. It is inflammation of the abdombal liming membrane, produced perhaps by over-stimulation of the ovaries. Sometimes holding the han in a covered basket over steam may do good.

Pip.—A hard and homy appearance of the end of the tongue in fowls and chicks is generally nothing more than the result of nasal obstruction. Give an aperient, put in a warm place, bleed properly, and apply a little chlorinated soda to the tongue.

neumonia. The bronchial cough, with very difficult breathing and gasping, often attacks chicks artificially hatched on their emergency from an over-heated "foster-mother" to the air. Rub turpentine into the feathers under the shoulders, bring the little invalid into the warm, feed on milk and bread; give a

little antimoniac or ipecacuanha wine from a teaspoon.

Ittle antimoniac or ipecacuain wine from a teaspoon.

Rheumatism.—Almost, save for joint swelling, like cramp, and needs similar treatment.

Roup occasions more mortality in the poultry yard than all other ailments combined. It culminates from a common cold, and is highly contagious. A bird attacked with the eye and nostril running, characteristic of this disease, must be shut away from the rest at once, and everything it has been in contact with disinfected. If the roup rattle in the throat has begun before detection, there will be small chance of saving the patient. Pellets of meal with pepper in them may be forced down its throat two or three times a day to keep it from suiking, and a little tincture of aconite given in forced down its throat two or three times a day to keep it from sukung, and a little tincture of aconite given in small pilules. Give a jalap aperient, and put camphor in the druking water. Persevere for a little while, if it be a good bird, but your chance is small. Bealy Lega.—Treat as if Elephantiasis, and keep the birds in the dry. Borofula.—A form of liver disease, which see.

Ulceration about the vent, in hens, may be treated alternated with white precinitate oinnuent, and

alternately with winte precipitate cintinent, and carbolised vascline. They should be kept apart.

Worms in the intestines Irritate and put fowls out of health. They should be eradicated by turpentine pulls or santonin, followed by an aperient. Neglect of treatment may lead to scrious results.

**Disinfectants** are frequently requisite in poultry, and carbohc acid in solution and carbohc powder are very valuable for sweetening the houses and runs, and for cleansing and riming the uteusils, especially when there has been roup or any other contagious ailment in evidence. A little should always be used in the whitewash.

Dust Bath .- The fowl's way of cleansing is to roll in the dust. Let them, therefore, have pienty, clean and dry, a good depth of it where the sun comes but the rain dues not, with a lot of fine ashes in it, and some black sulphur. Clear the lot away occasionally

and renew.

Dutch Everyday Layers or "Everlasting
Layers" were names given to the "Pencilled Hamburghs" prior to their importation to Britain. The
Bataylais have long held this breed of birds in esteem

batavails have long rich this breat of birds in esteem for their egg-producing qualities.

Egg-Bound,...Generally an aperient will rectify this, but chopped groundsel rolled in butter is reconthis, but the protegrounder rolled in outer is recom-mended by some; and an olive oil injection, or the passing of an oiled feather (sweet or inseed oil will serve) up the vent and round the egg will often be found helpful.

found helpful.

Big-Bating.—This is a vice on the hen's part, contributed to by her keeper. It generally arises from the absence of shell-forming material in the run. The hens peck to the shells of the eggs they lay to get the naterial for forming more shell which instinct tells them they ought to have, and this gives them a depraved taste for the egg which is difficult to eradicate. One hen also sets the others a bad example, and soon many eggs are devoured. Plenty of old mortar rubbish and cracked-up oyster shell should be provided for the hens to pick at in confinement. Then a blown egg or two filled with mixed mustard or a few very rotten ones, should be laid about, to disgust the delinquents who break them to satisfy their unnatural craving.

who creat them to satisfy their unitation, should be kept with the large end downward stood in holes in a board. This preserves freshness and vitality longer than lying them in bran or keeping the small end down. For long them in bran or keeping the small end down. For long keeping some grease or wax the eggs, some store in lime-water or in a paste made from quicklime, some pack in dry sait, some in bran, some bury in an airtight box, but nothing is better than steeping them in a solution of silica or "water-glass" as soon after laying as possible, and keeping in a cool, dry cellar, where the frost cannot come. Don't try to retain hens for laying

purposes after two and a-half years old; an odd bird purposes after two and a hair years out; an odd bird or two may keep in profit ionger, but it will be the exception rather than the rule. Fat forming meals should be largely eschewed when egg-production is the principal object; a warm breakfast is good on very cold mornings and it should mainly consist of cooked and easily assimilable food, and fresh bones and meal

cold mornings and it should mainly consist of cooked and easily assimilable food, and fresh bones and meal help the egg yield.

Enemnies of Foultry.—Keep the cats away by wiring, and exclude rats by a good deep concrete, else you will lose birds and eggs in a very disheartening way; mice will nibble eggs in a very disheartening way; mice will nibble your nest boxes and get at any food left about—and there never should be any left about—otherwise the smaller rodents do little harm. Insects are pestilent little enemies of fowls; but they can be circumvented by cleanliness and constant care. (See also Parasites of Foultry.)

Fancy Poultry.—Bantams, already dealt with, come under this head; so do all such as are reared and kept more for show than utility; some of the newer breeds of this order may have passing mention. Buff Orphygtons were raised from much crossing at Orphington by the Cooks with an utilitarian end in view but the reaeres of Buff Plymouth Rocks, and Buff and Buff-laced Wyandottes, also Partitige Wyandottes, White Plymouth Rocks, and White Indian Game, appear mainly to have been alming at novelty and pure "fancy." Anconas were "fancy" to begin with, but their egg-producing prolificacy rescued them from the merely ornamental state. Silkies are fine sitters, but count more in the beauty category than for practical usefulness, and the Japanese Long Talls are quite buzarre, and belong to the aviaries of the mondel fancier, as also do the various Frizzled Fowls, Naked Neck', Suitans, Ptarmigans, Rumpless, Fowls (or "Cock of the Woods") from Persia and Ceylou, and certam other poultry cutosities which have their admirers amongst the wealthy.

Fatearing for market is a process carried to a great length by the "crammers" and "caponilesrs" of

Fattening for market is a process carried to a great length by the "crammers" and "caponisers" of the Continent, and at certain British establishments of the Continent, and at certain British establishments of a specialistic sort; but less extensive poultry raisers find it answers to go some distance in the same direction for profit's sake. The principle striven for after growth has been attained to give seclusion and rest from everything else but the business of plumping out. The birds are confined in semi-darkness and tempted by simulant food to eat as much as can be semi-darkness and the significant of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same profit of the same p

tempted by simulant food to eat as much as can beyor down their throats. Ground buckwheat, crushed oats, marze meal, etc., form the staple clieary with the addition of suct and other fats, mostening with milk.

Feather-Fating is a permiclous habit in some fowls that have been fed on heating and stimulant food, and kept closely confined. Laziness from replecion and lack of health-promoting activity often starts it. and fack of health-promoting activity often starts and when a bird in a batch begins the practice, other retailate, until the whose pen presents a sorry spectacle. Change the dietary, give abundance of green food; put short straw or moss litter on the floor and bury their corn to make the birds scratch for a living; this will give them something better to do than stripping off their own feathers and those of their miserable

will give them something better to do than stripping off their own feathers and those of their miserable companions. Also hang up the green food in bunches on a string and make them jump up to get it. If this fails to cure them, wring their necks.

Feathers are of some economic value in fowl-keeping Fearefully kept and properly cured by bakings and dryings. They are not nearly so good for bed-stuffing as the downy breast feathers of the goose, of course; but well selected, and the larger ones stripped, they come in well for pillows, bolsters, and cushion making.

Feading of Foultry requires proper consideration and systematic regulation. Over-feeding—ave for fattening previous to slaughter—is distinctly bad and disease-inviling; whilst mal-nutrition, or the giving of improper food, is only less harmful in degree. The dictary should be wholesome, varied, sufficient; and no more. In dealing with chicken-raising we have indicated the best practice as regards immaturity. For grown fowls with a free range two meals a day will be enough; one in the early morning when they are let out of the house, and the other in the evening before going to roost. These will pick up green food and much supplementary aliment during the hours of

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PEARS' CYCLOPAEDIA.

Toring. Confined in a small run birds should have a slight breakfast of soft food, meal moistened with scalding water and nixed with scraps is good. Before mid-day a handful of loose corn per bird may be scattered and covered to be scratched for; green food, such as cut grass or anything else available, may be given an hour or so later. Last thing, a feed of good sound grain should be supplied. As to quantity, as much as the fowls will eat greedily is a good standard to go by, always rather leaving them a little hungry than allowing anything unconsumed to lie about. They want less when not laying than when in the swing of egg-production, and still less during the moulting periods. Half-a-pint of grain a day should suffice for half-a-dozen healthy adult birds. The soft morning food is best if fully cooked, being most easily digested thus, but scalding will serve as an occasional alternative; the kitchen waste should be incorporated. Bones need to be dried and ground; they are splendid poultry food. Of grain, good hard wheat stands first in value; barley and oats next. Indian corn should be given but sparingly; it is too heating, except in the northern counties, and where birds have free range.

Finadging, Bad.—When the fedging of chicks is difficult and retarded, warm milk should be given to the drinking water.

Fractures of the shanks in fowls are easily set by

help them on, and a little tincture of Iron put into the drinking water.

Fractures of the shanks in fowls are easily set by eplacing the broken bone in position, and securing with splints formed of folds of porous brown paper saturated in white of egg. Other bone fractures sustained by fowls are very difficult to mend because of the restless dispation of the birds, but bandaging may be attempted with valuable fowls which have met with an accident of this panful character.

Frost Bits may be prevented in severe weather by well oiling the combs and wattles of the birds, or rubbing in vaseline, so as to prevent the adhesion and freezing of water after the act of drinking.

Grass Runs are grand thungs for fowls if sufficiently large enough to retain their greenery on constant usage, but otherwise they are better not attempted, for a befouled patch from which the grass has been nearly scratched and trampled away is

attempted, for a befouled patch from which the grass has been nearly scratched and trampled away is unsightly and injurious. A small plot of grass, kept closely cut, is very good for young chuckens; but for the older birds the grass range should be very extensive to be of practical service.

Green Food.—"Plenty of it" is the order for the would-be successful poultry-keeper to observe. Growing greenery, picked and pecked by the birds ranging at will, is best; next best, the fresh cuttings of the lawn, short and sweet, and not thrown into the runs in such profusion as to be left lying to rot. Cut up lettuce leaves, cabbage leaves, dandelions, cress, and anything else fresh and assimilable should be supplied to the extent the birds will eat it up clean. Don't permit cabbage stalks and mid-ribs to stay in the run to decay cabbage stalks and mid-ribs to star in the run to decay nder the place unwholesome.

The standispensable of fowls in captivity. It forms their teeth, without which their food cannot be properly digested in the gitzard. The grit must be hard, angular, and sharp to be of full service, and nothing to equals finit broken up small. Smooth gravel is of

little service.

little service.

Hans, as a rule, should be killed off at the age of two years and a half, when the first sign of the most appears. Their best laying days are then over, and they will henceforth, if allowed to live, deteriorate for table purposes. Very fine and valuable birds may be retained for breeding purposes, but even they are better cleared out of the way to make room for their quinors. (See also Broody Hens, Mating and Bitting Hens.)

Housea for fluyls should be so designed and built

Bitting Hens.)

Housse for fowls should be so designed and built as to give the requisite accommodation for the poultry intended to be kept. They need not be costly or ornate. The simpler and better constructed they are the more satisfactory they will prove. Suit the size of the house to your requirements, let it face the south if possible, and let it be wet-proof and wind-proof, the floor elevated from the ground, with a hen ladder giving access from the run to a little closable entrance door at the front, and let there be a big door at the

back to facilitate cleaning. Put your perches on one level well below the essential ventilation holes towards level well below the essential ventilation holes towards the top of the house, and light it by a small window either at the north side over the door, or in any other convenient position. Both light and freeh air are wanted if you would keep your birds in health. If you "go in" for Brahmas, Cochins or Orpingtons, you will need only very low broad perches, or none at all, and you must have plenty of clean straw or moss litter on the floor; if with dry sand, ashes or lime dust amongst it all the better. If the floor be raised and boarded, a layer of concrete or asphalte upon it will be good for securing dryners and excluding vermin; and this will be even more necessary should the house bottom be the ground.

good for securing dryness and excluding vermin; and this will be even more necessary should the house bottom be the ground.

Incubacting—Artificial.—This is a process rendered fairly easy to all poultry-farmers, female as well as male, who have at command a dry and airy room and any one of the many makes of incubator manufactured by reliable firms. The best—size and extent of course being a governing condition—are those which are at once the costliest and cheapest, an imperfect incubator "is dear at a gift." The capacity of the incubator should be such as its possessor may have accommodation for the produce of; and its working will require the unremitting attention of the person in charge. It should stand on a firm table in a well-ventilated position where there is no draught, and the heating apparatus be regulated to maintain a "leady temperature of from not to not degrees, whilst the provision for airing, turning and moistening the eggs must leave nothing to be desired. Study of the directions given with the incubator and practical experience of its working can alone make its management a success. An Artificial Foster Mother, or Rearer, will be requisite to receive the chicks after batching, this being a portable construction containing a glass covered run and a wiredu nrun in front of a chamber this being a portable construction containing a glass covered run and a wired in run in front of a chamber into which the chickens can come and go, as they will, into which the chickens can come and go, as they will, such chamber being kept at a uniform heat of 60 to go degrees, according to the outside weather; and the whole concern being readily cleanable. The "Foster Mother," of which there are numerous satisfactory makes in the market, must be placed in an apartment the air of which can gradually by full and free ventilation be brought to coincide with that out of doors, so as to obviate chill when the chicks have to be transformed to the open. The feeding of the be transformed to the open. The feeding of the youngsters should be similar to that recommended for hen-hatched chicks.

be transformed to the open. The feeding of the poungsters should be similar to that recommended for hen-hatched clicks.

Infertile Eggs can be detected readily by the fourth day of incubation, and even earlier, by experienced persons by holding up to a strong light; it they then look perfectly clear they should be within the properties. Should too many hears be running with a small readily and the control of the running with the control of the running with the readily should be something the running with the running with the running with the running with the running with the running with the running with the running with the running the state of the right of the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with the running with th

allowed to run with one male, according to the breed. The Houdan is particularly active, and the lighter classes, such as the Hamburghs, Minorcas, Leghorns, and Wyandottes, can have more hers in the pens than the heavier birds like Brahmas, Cochins, Dorkings, Langahans, Orpingtons, etc., without prejudice to the fertility of the eggs. In this particular, season makes a difference too, the eggs laid very early not being so certain to bring forth chicks on setting as those produced in the spring and summer.

Moulting is a "ticklish" time with most fowls, though a perfectly natural condition. Everything proper should be done to help the birds over the modit. Those with the most vitality get through the feather-shedding and renewal the quickest. Old birds are long shably: they should be got rid of atogether. Hens slow of moulting through being "run down" bleavy laying should be placed apart, given specially generous feeding treatment, and supplied also with a suitable tonle, such as fron tincture in the drinking water. (See Balleandes for Moulting Birdes.) Reasts and Ness's Profection.—Nests, generaly spound, whence the eggs development, whence the eggs development of the week the strine bird, is all that is really requisite. A little soft straw, confined between two bricks, in a secluded corner where the rain cannot come to the strine bird, is all that is really requisite.

ture. A little oof straw, confined between two bricks, in a secluded corner where the rain cannot come to the sitting bird, is all that is really requisite. Fern leaves are good nest material, insects do not seem to relish the smell of them. Whether for incubation or for mere egg-laying, the nest-boxes, if such there be, should be placed in privacy, but yet readily gestatable by the owner or attendant, well-ventilated, and scrupulously clean. If of wood, scour and whitewash them frequently, and renew the bedding often. By no means have them exposed to cold, though airy; but let the position be such as to protect against wind and frost, so that the eggs of a sitting hen may not be chilled unduly in winter, or very early spring time, when she gets off for food and exercise.

Oyster Shells suashed up well, are capital for

Oyster Shells smashed up well, are capital for

Oysiar Shall smashed up well, are capital for laying fowls, for the lime in them is good for the birds and the eggs they lay, while the harder and less soluble portions help the gizzard to grind the food. Perastless of Pouliry.—Lice will swarm on the birds, their perches, nest-boxes, and the houses they hashit, if cleaminess be not observed by the poultry-keeper, and the proper dust-bath be not provided. But if there be regular and thorough cleaning out, and whitewashing of the whole interior arrangement at least twice yearly with good hot lime in which sulphate of iron or even parafin is mixed, with occasional spraying about of dilute carbolic acid, or dusting with some good disinfectant powder, there will be little trouble from lice or any other vermin. The dust-bath should be sifted and renewed frequently, and sulphur may be scattered over it occasionally.

should be sitted and renewed requently, and suppur may be scattered over it occasionally.

Paat Moss Litter is an invaluable material for strewing thickly over the floors of fowlhouses, so long as it can be kept dry. If permitted to become saturated with damp it is dangerous. It should be crumbled down fine, and frequently stirred or raked about; and then acts as an absorbent and deodoriser.

apour; and then acts as an absorbent and decodorser.

Perchae ought to be wide enough to afford support
to the breastbone of the bird, a good height in the
house and out of a draught, with none above any
other—else there will be warfare for the highest van-

nouse and out of a draught, with none above any other—else there will be warfare for the highest vantage point—and free from cracks or interstees in which lice may lurk.

Plucking.—Pouttry should always be done when the bird's body is still warm, as the feathers come away much more easily than later. If necessary the fowl may be singed after stripping, but this sometimes discolours the feesh.

Pouttry Points.—A few technical torms used in the poultry "fancy" may be explained. Deaf ears are the ear-lobes or skinny folde hanging below the true ear. Gills or wattles, the red pendent structures at each side of the beak. The narrow neck feathers, found also on the saddles of the cock-bird, are called "hackles." "Rea-comh," a triple counb, like three in come, the central part the taller of the three. Pencilling, small striped markings across or down the feathers. Saddle, the part of the back nearest the tall in cock-birds; usually called the cushion in the hen. Shank,

the scaly portion of the leg. Sickle, the upper feathers of the tail covert in the male birds, often long and gracefully curved. Top-knot, or crest, the crown feathering of birds like the Folish, Crève Cueur, and Houdan. Vulture-hock, projecting feathers on the hock-joint, as in the Brahma. Wing-bar, a line of contrasting colour across the middle of the wing, caused by the variant marking of the lower coverts. Wing-bow, the shoulder of the wing.

Profitable Poultry.—Foultry, properly selected, managed and cared for systematically, according to the counsel given throughout this section, will be profitable. Where all the food has to be purchased, if it be bought in the best market and none of it wasted, the keep of a hen will come to about six shillings a year. If she be well chosen and dealt with as we have endeavoured to direct, she should average 150 eggs a twelvenonth for the two years of her full laying life. There is a fair good profit on the eggs alone here; and she and her fellow hear should pay for the keep of themselves and the cock easily. For sale or home consumption when she goes out of profit, sile should be worth as much as she cost up to the time of laying her first eggs. Haphazard poultry keeping, inattenton, the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the contragency of the

consumption when ane goes our to pront, sue amount be worth as much as she cost up to the time of laying her first eggs. Haphazard poultry keeping, inattention, the extravagant purchase of uscless appliances, and, above all, the stocking of unsuitable birds and their retention in the yard beyond the proper period, will most certainly result un loss.

Pullets, Gare of.—The term "pullet" is not properly applicable to a young hen fowl after the end of the year in which she was hatched, but it is generally so called during the early months of the year following. The young birds should be quartered apart from the cockerels when the pullets' combs commenced to redden and the cockerels begin to crow, and given plenty of grit and cyster shell as well as green load. If they are over-precouss and lay their first eggs as early as five months old, as some pullets will, they may advantageously be kept back a bit by transference to another run. Let the development of all the organ becomplete before matting up and encouragement to advantageously be kept back a bit by transference to another run. Let the development of all the organs be complete before mating up and encouragement to full laying. Only the best and most promising pullets should be selected for stock, the rest being fatted and killed for the table or otherwise disposed of. Roosting should not be encouraged in chickens, till ghey are about four months old, that is, on the regu-lation perches. It is fir better for them to squat in the straw or moss litter on the fowl-house floor, away from the perches overhead, or a smooth, broad shelf may be

istion percines. It is far better for them to squat in the straw or moss litter on the fowl-house floor, away from the perches overhead, or a smooth, broad shelf may be fixed for their benefit about a foot high, and parallel with the perches, on the warmest side of the house. Sprinkle this with sand and ashes, and strew braken straw upon it, with more dust on the top of tto prevent the adhesion of droppings to the plumaged and frequently sweep the board clean.

Runs should be as Jarge as there is space at command for, covered in by a water-tight roof at the top if possible, and constructed with an open-wired front and a wind-proof back and end, either of boards or brick. The wiring should be stout, wid-meshed from about 2 or 3 feet high, finer below, and 6 feet high, opermit of walking about in and cleaning with facility. Have it in a dry place, facing west or south, to afford shelter from the more trying cold winds, and let the floor be of gravel or sifted slates, laid thickly on the flatural ground. Give access by a wired door, preferably close to the front of the fowl-house, where the birds enter through their own sliding door.

ferably close to the front of the fowl-house, where the birds enter through their own sliding door.

Setting. Secure and select the best eggs obtainable. The trouble entailed in hatching and rearing a poor bird is as great as the best requires, so that the first cost of the egg is by no means the only consideration. Get the most reliable eggs you can for the purpose you have in view in breeding. Let the shape, if you personally select, he perfect, and the size normal, according to the standard of the breed. The number of eggs should vary according to the size of the hen, a large bird like a Cochin, can cover thriteen easily, a smaller fowl will find difficulty with less; an fewer ought to make a clutch in cold weather than warm; nine to eleven is a good average. Let the birde seriliest profit, in a dry, quiet corner out of reach. If molestation on the ground, a hollow lined with sort out

straw making a good nest. Dust the hen on the under parts with pyrethrum powder before she begins her three weeks atting. This will prevent her beling bethered by insects. [See also Mesten].

Bhow, Preparing for—A few hints on preparing choice birds for exhibition may here be given. If there he any tendency to scurf or scale on the shanks, get theas clear by scrubbing gently with scapsuds and an old tooth brush three times a week; and anointing with sulphur and neatsfoot oil or vascine, after wiping dry. Give the bird powdered charcoal in its food clear the system and impert one, and a fair amount of tresh linssed twice a week with its corn; this will afford gloss to the plumage. Let the dietary be varied and the oxercise ample, making the specimens creatch for its food. A little cooked meat daily, fed out of the hand, will help to give condition, also render the bird tame. Cleanse the watels, could the face with a soft, daup cloth, and when dry rub vinegar over them with a suiall sponge to give extra brightness. Wash the birds thoroughly all over, and veracefully, the day before sending off to the slow.

Bitting Henne.—Supplementary to the paragraph on 'Settling,' a few further hints on the management of the sitting hen may here be given. When she goes broody put her on "pot" eggs first; if she settles to all steadily, the first time she goes off to feed, replace these with the eggs you want to hatch. Let her off regularly, and at the same time daily for food, drnnk, exercise, and dusting; she should be away from the next ten to twenty minutes. Sprinkle the eggs with the eggs you want to hatch. Let her off regularly, and at the same time daily for food, drnnk to see whether any remain translucent; them remove, for they are clearly infertile. The paragraph of the same time daily for food, drnnk to see whether any remain translucent; them remove, for they are clearly infertile. If they are cracked slightly to see whether any remain translucent; them remove, for they are clearly infertile, they may be tracked gig

Both Edgs are a sign of functional disorder or disease in the hen, often arising from over-feeding; and their origination may be traced to the absence of shell-making material in the run. Reform the dietary in the first case, repair the omission in the second. Pounded raw oyster-shell has the quickest effect of any shell-forming substance available for poultry-keepers.

poultry-keepers.

poultry-keepers.

Suphup, powdered, in the moulting period, and to lasten egg-laying, is good for pullets and hens alike, a small half-teaspoonful to each fowl twice a week.

Table Poultry.—Reference to the paragraph on Breeds. and "Cross-Bred Fowls" will show what kind of birds to select for the best uneat-producing results. The desiderata are quick maturity, meatiness,

white, fine-flavoured and firm flesh—especially of the breast, which should be broad, long, and deep—and size. Beauty of plumage and other fine points are of no consideration, and oviparous fecundity does not matter at all in birds bred purely for slaughter. But fowls with white feet and legs market better than the

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matter at all mitors bred purely for stagners. So flowls with white feet and legs market better than the yellow-shanked sorts.

Trussing for market should be simple; setting the hocks back and the wings into shape and securing the legs is all that is requisite after plucking. Further preparation for the spit should be left to the purchaser and the cook, as should the "drawing" of the birds, for anything that entails cutting the skin or feash of the fowl assists decomposition, which the raiser certainly does not desire to have expedited until his financial interest in his produce is ended.

Water Troughs should be simple and easy to cleanse. A good deep earthenware saucer with a garden flower-pot inverted in it is good, inexpensive and effective, in that it leaves the drink accessible to the beaks of chicks and fowls of larger growth without affording room for the leet of either. There are many good glazed earthen-ware "fountains" to be purchased cheaply; also convenient galvanised "tip-oven" metal troughs for insertion in the frame work of the run, readily removable for scouring, and accessible from outside for replenishment. The chief essential is cleanliness of the utensils and their, constant refilling with perfectly fresh utensils and their, constant refilling with perfectly fresh. replensiment. The citier easeman is cleaniness of the utensils and their constant refilling with perfectly fresh and cold water. The position of the vessels should be sheltered, for sun-warmed drink is both disagrecable to and bad for poultry. (See also Winter Manage-

and bad for pourty. (see also we assess ment.)

Winter Layers.—Perhaps the best fowls or eggproduction in winter are the Orpingtons, Brahmas, and
crosses between the Minorcas and Langshaus,
Minorcas and Wyandcites. Hatch these kinds of birds
as early as you can in the season; they will get over
their nioult and commence re-laying very early. Thus
it will be seen that to be sure of winter eggs you must
choose not only the proper hens but the proper time
for their launch into life.

Winter Management.—Warmth is essential for

The result of the control of the control of the maintenance of fowls in full virility. Carefully exclude all draught from the hen-house, whilst retaining full and free ventilation. Let the runs be sheltered from cold basts, and the food varied and wholesome,

from cold blasts, and the food varied and wholesome, nourshing, appertsing, and comfortably hot without being over-stimulating.

Worms are not the best food for fowls as a rule, though they will scratch for and greedily devour them. The most dangerous worms for poultry dletary are the larger earthworms from the runs which have become at all fouled, for the bodies of the wrigglers may have given lodgment to the pestilent germs of the tapeworm and other enemies of warm-blooded animals. (See also Parasites and Disapase.)

Parasites and Diseases.)
Wry-tail is a great fowl disfigurement, wherever mry-tail is a great low divingurement, wherever it occurs, and is apt to become hereditary, so that it is as well not to breed from birds thus deformed. Some breeders, when it is due to spinal alineut, essay a surgical operation for the correction of wry-tail; but this is hardly worth while, save in the case of youngsters likely to make in all other respects fine exhibition birds.

# BREEDS OF DUCKS.

## Useful and Ornamental.

Aylasbury.—Unsurpassed for table purposes, pure white in colour; bill should be pale flesh lued, not yellow; eyes blue, body long and deep, ready for market at eight weeks old.

Bahama.—An ornamental variety, light brown, encilled dark; a similar duck is found at the Cape of

pencilled dars, a second cood Hope.

Black Cayuga.—Early maturing, lustrous black, as large as the Aylesbury, blue-black bill, shanks orange or dark slate, hardy, good layers, fine flavour.

Black East India.—Small size (smaller the better better and closey blumage, black feet and legs, drake's

for show), glossy plumage, black feet and legs, drake's bill orange, duck's black, small boned, good layers. Call Ducks.—" Fancy" birds, grey or white, used

occasionally as decoys, small, the white varieties have bright yellow bills, very lively. Campbells.—Introduced by a Gloucestershire lady

Gampbells...Introduced by a Gloucestershire lady of this name a few years ago, by hybridisation between the Indian Runner Rouen and wild ducks, which latter they resemble; rather small, but grand layers.

Carolina...The summer or Wood Duck of America, a beautiful variety of ornamental water fow, closely related to the Mandarun, red bill, black margined, hooked at the point; glossy green crest; throst, collar, over the eye and belly white; breast chestnut, cheeks and side of the upper neck violet; back dusky bronze tinged with green; side, under wing, fine lined with black over drab: tail deep black tinged with yellow;

wing spot blue and green, not so bright in the duck as the drake; yellowish red legs and feet. Cayun.—The large American black duck. (See Black Cayun.) Created.—An ornamental duck, with a pretty top-

Duclair.—A cross or sport from the familiar Rouen duck, much marketed in France.
Falcated.—Black pencilled in the drake on silvergrey ground; head purple glossed with green and crested, throat white: almost as beautiful an ornamental duck as the Carolina and Mandarin varieties

Indian Runner.—Chiefly fawn and white, small but unequalled as an egg producer. When crossed with the large ducks makes a bird of value for table,

with the large ducks makes a bird of value for table, and prolific as to laying quality.

Japanese Teal.—A very beautiful bird, allied to the Mandarin; the drake especially being handsome of plumage. The female resembles the Mallard.

Mallard.—The white duck, or Mallard, is sometime found amongst the inhabitants of ornamental

duck ponds.

Mandarin.—Sometimes called the Chinese Teal; the most gorgeous of all the ornamental ducks, and quaint of appearance; very small, and affectionate in their pairing, though the drake is up to be quarrel-some with other males of his genus, and with ducks to which he has not been properly mated. A broad cream-coloured stripe extends from the front of the cides of the head, agree the sure tasts he has for sides of the head, across the eye, to the back of the neck. A variety of bright colours appears over the body, and the bill is crimson.

body, and the bill is crimson.

Hussowy or wild Musk duck.—Very large, the drake often reaching over ten pounds in weight; mainty black and white in patches; flesh good when eaten young; lays few eggs, the male fighting anything he comes near most pertinaciously.

Orplingsons.—These have been bred by members of the Cook family of Orplington, who also originated the Orplington fow! They are found in two colours at present, buff and blue. They are shapely, good-sized birds, following the Rouer somewhat in shape, and the Indian Runner in style and carriage. Like the Orplington fowls they have great utility properties, being good layers and carrying a fair amount of flesh. They are hardy, and mature quickly, thus may be said to be good all round utility birds.

Pekin.—Fine utilitarian duck; good-flavoured flesh,

said to be good all round uthity bids.

Pekin.—Fue uthitarian duck, good-flavoured flesh, hardy, fast-growing, very large, pale straw or cream-coloured, deep yellow bill, long deep bodies, downy, reddish-orange shanks.

Penguin Duck.—An ormanental bird, marked by the downward rendency of the rump.

Rouen.—Well described as a larger and tamed wild duck; handsome and utilituran, a capital layer, but rather late in reaching maturity; the drake has a greenish-yellow bill, black at the tip; head and neck

lustrous green, with white ring low down towards the

lustrous green, with white; ring low down towards the breast, which latter is rich claret; back gree and green, under-parts gree; tail black, bright blue wing bar. Runners.—[See Indian Runler.)

Spotted Bill Ducks.—Rare-fancy birds from India, with a peculiarly bright green wing spot, pale brown breast all spotted with dark dots like a trout, text blue bit with rether the second process.

jet-black bill with yellow tip.

Summer Duck.—(See Carolinas.)

Teal.—The ordinary British Teal and the Gargancy
Teal are not found on ornamental lakes, nor is the Japanese Teal.

Japanese Teal.

Whistling Ducks, sometimes called "Tree Ducks," because of their habit—in common with the Mandarins and Carolinas—of perching on boughs. The White-faced Whistling Duck is handsomely pencilled and many coloured; the Red Tree Duck is

even prettier.

Duck-rearing Notes.—Ducks are naturally hardy birds, and readily adapt themselves to circumstances of course they are watertowl, but they can be kept Of course they are waterlowl, but they can be kept profitably with the merest apology for a pond to disport in or with none at all if intended for early killing. However the duckpond is constructed, it should have its side sloping easily down to the water, to enable ducks and ducklings to get in and out without difficults. Also provision should be made for cleaning out the artificial pond frequently, especially if it be of small dimensions, for ducks are dabsters at foolling water. The duck-house never need be an ambitious affair; any dry well-westerlet side will do the floor covered with The duck-house never need be an ambitious affair; any dry well-ventitated shot will do, the floor covered with clean straw for the birds to lay their eggs in. Fasten up the burds every evening and they will usually do their laying during the night or early morning. Mate four ducks with one drake soon after the moult, and feed them extra well to get eggs almost daily until their batch of from ten to forty has been laid, then they will rest for a few weeks. Hens will latch and mother ducklings very well; the incubatory period is twenty-eight days, but the duck is a good sitter and may be allowed to hatch her last batch. Hard-boiled eggs, coarse meal or breadcrumbs noistened with nilk, grits, fine shredded meat, with plenty of cut-up greenstuff, especially lettuce, form the best food for the ducklings for the first three or four days, after which the stuff, especially lettuce, form the best food for the ducklings for the first three or four days, after which the eggs and mulk—mostened food may be discontinued; bus plenty of meat should always be given, and fisshy refuse which is not diseased or tainted being acceptable to these ominvorous feeders. After the second week ducklings with any range will pick up a lot of slugs and msect tood for themselves; but besides this they should be fed regularly three times a day with boiled rice, barley-ineal, sharps, household scraps, and anything else handy, giving them on each occasion as much as they can gooble up clean. At ten®vecks old they will be fit to kill, and that is the most profitable way to dispose of the pulk of them. way to dispose of the bulk of them,

## GEESE.

## For Food and Fancy.

Canada Goose.—A handsome and ornamental long-necked bird, an aboriginal of North America, half-way between swan and goose in general form. Head, bill, and greater part of neck black, with a peculiar white cravat at the throat, body grey, grading to nearly white underneath, wing, quits and tril nearly black, grey-brown eye, long, lead-coloured legs and freet, imposing carriage, swan-like and graceful on the water. Makes less gross eating than the ordinary goose. Average weight, 9 lbs.

Chinese Goose.—Is in two principal varieties, both great egg-layers, though the size of the eggs is but two-thirds that of the common goose, which only lays about fifteen times on an average during any year,

but two-thirds that of the common goose, which only lays about fifteen times on an aver-jec during any year, while the Chinese will lay as many as thirty for a 'clutch' hines times or more each season. Midway between swan and goose in size, and pretty in formating the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the latter, from which the same of the latter, from which

it is sometimes styled the "Knobbed Goose. The brown variety, so-called, is predominantly yellow-grey, with a darker brown stripe down the back and neck, and very dark brown bill and eyes, dark orange shanks, and a feathread "dewlap" under throat. Occasionally called the "Spanish Goose." New Holland A years

called the "Spanish Goise."

Careopsis Goose of New Holland.—A very handsome fancy water fowl, but the gander is even more of a fighter than his Egyptian relative, if possible, and a "positive terror" on a pond.

Danublan or Sebastopol Goose is pure white curiously frazled, the plumage being soft, silky, and turned back. Weight about to lbs. Not uncommon on the Danube, but the first specimens came to Britain from the Black Sea. Interbreeds with the common goose.

Britain from the Back Sea. Interpreted with the common goose.

Egyptian or Nile Goose is tall and stender, grey to black on the upper parts, pale buff beneath the breast, beautifully pencilled with black, chestnut patch round the eye, purple blll. A strong filer and incorrigibly pugilistic.

Embden Goose.—Very big and white, square bolied, waddles along close to the ground when fat. Flesth-coloured bill, orazing shanks, bright blue eyes, long winged. Comes from Embden in Westphalia. Ganders will weigh ao los, or more. Matures rapidly. Gambian Goose, or "Spur-Winged" Goose, from the powerful spur, or "Spur-Winged" Goose, from the powerful spur, or for the wing. Has a large excrescence at the top of the base of the bill; green-black save as to checks, throat, and under parts, which are white. Bill and legs dull red. Shy and tall, and smallish as to size. More ornamental than useful.

Indian Bar-headed Goose. has three black

ornamental than useful.

Indian Bar-headed Goose, has three black bands across the back of its white head. A distinguished-looking bird for ornamental water.

Italian Goose is the newest importation to Britain amongst the family of utilitarian geese. It weighs about 13 lbs, is a good forager, and almost as

prolific an egg-producer as the best layers of the Chinese varieties. It is a non-sitter, a quick maturer, and finely flavoured.

Magallan Goose, sometimes styled also the "Chillan Goose," is prettily shaped on breast and back and gentle in association with other water-fewl.

Nile Goose. (See Byptian.)

Bandwich Hisand Goose. Hardy and prolific, much bred and sold for "fancy" in Belgium.

Bebastopol Goose. (See Banubian.)

Toulouse Goose. The ginnt of the Anserine group, and a good layer for a goose to boot. One extra fine pair will weigh 66 lbs. together. Grows to a big frame quickly, but puts on fiesh rather slowly. Comes in for Christians well. Grey of colour, darkest on the back. This is the hird whose liver is swollen by confinement in heat to an enormous size to make the pdte de fore grast that epicures profess such fondness for.

## GEESE REARING NOTES.

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Geese require a wide range of liberty to do well, and common or pasture land, with a pond by the way, to rove over in flocks unmolested. So kept, and with stubbles to forage in during by the way, and with stubbles to forage in during the autumn, they will pick up the most of their living, and thrive and fatten exceedingly. Fed in the mornings before being let out for the day, and in the evenings before retirement, they will generally return to the homeyard with regularity, after a little early teaching or driving; but if not, a little child or even an intelligent dug will lead them to and fro quite easily. The ganders, however, will speedly show fight to any mischievous meddler; and sometimes put strange children and timed wenner folk to fearsone flight with their hissing and rushing onslaughts of bill and wing They want a dry and airy shed, beddled with clean straw, to sheep in. Three geese may go to each gander, and they should be mated up as soon after moulting time as possible, and given extra liberal dietary to bring on the egg-laying. The eggs, which take thirty days to incubate, should be "set" under broady hern of the Brahma or some similar large breed, four orefive to each hen Danp the eggs with lukewarm water twice a week or so when the eggs with lukewarm water twice a week or so when

the foster mother is off feeding. When the goslings latch out they will not require very much attention, being very hardy; hut, being likewise very voracious they will want a lot of feeding. What is good for chickens is good for goslings, only more of it is needed with plenty of flesh meat and green stuff; spring omons are good, in supplementation. In bringing on the youngsters for market let them have their run for development daily, and liberally feed them with meat, corn, turnips, and potatoes at both ends of the day; then for the last three weeks of their short life keep them in confinement and induce them to craim as much then for the last three weeks of their short life keep them in confinement and induce them to crain as much as they will with Indian corn, oats, and boiled potatoes. Brewers grains and kitchen scraps of all kinds are also helpful to prepare the goshings for consumption as "green geese" at Michaelmas, about which time they are best for the table. The big older birds are grosser eating. They rarely lay till over a year old and will live to a great age if allowed to do so, breeding for many seasons. The big Embden and Toulouse geese, and cross-breeds fattened up for the Christmas markets, are usually thee-year-old, or at least two-year-old, birds. Some geese sit very well themselves, and then bring up their brood with exemplary attentiveness.

## SWANS.

Swans in the wild state are met with everywhere but in actually equatonal regions. Two species are common to both Europe and America, and a third, of will-marked differentiation, in Australia.

The Mute Swan is the largest and best known of all the Cygnus group. Spotless white on every feather, its slender curving neck, red Juli with a large black protuberance at the base soft brown eye, and dark feet are familiar. It is not mute as the name would imply, but its voice is softly missical if somewhat melanicially. There is a variety, equally large, but sheathy the create as to shape of crumen, to be found on the Baltic, and called generally the Polish found on the Baltic, and called generally the Polish but sugatty in crent as to stape of cruman, to be found on the Baluc, and called generally the Polish swan. Its cygnets are pure white from the ego nowards, thus variant from the true Mute Swan, whose young are hitched grey, and long remain so.

The Whistling Swan is also white, slightly smaller than the Mute Swun, with shorter and thicker neck, and yellow bill without the black bump at the

base. It has a tuneful voice, and many sweet notes frequently come forth, especially when on the wing. frequently come forth, especially when on the wing. When wounded or distressed, those are prolonged and accentuated in volume, and no doubt save rise to the old legend of the Swan song, which Slankespeare had in mind when he made Emilia say in "Othello"—"I will play the swn and due in inusic." Herwick's swar is a still smaller white bird, slight and short of neck.

Tha Black Ewan from Australia is well known ow the world over. Not quite so large as the Mute swan, it is sooty-black to grey of plumage, scarlet-eyed and red of bill, the latter being white-tipped. These Antipodeans are not quite so quiet with other water birds in collections as their white relatives are.

The Black-Necked Swan comes from South

America, and is sometimes known as the Chilian swan. Its neck and head are jet black, the rest of the body white The bill protuberance is most marked, and red of colour, the bill treff being of a leaden hue. This bird swans with the neck straight like a goose, and its

of colour, the bill inself being of a leaden line. This bird synais with the neck straight like a goose, and its bird synais with the neck straight like a goose, and its bird synais with the neck straight like a goose, and its cyneits grow with great rapidity.

Bwan-keeping.—Given a stretch of water and some privacy swans of the common breed may be trusted to look after their own affairs. They make an enormous nest close by the water in which the hen lays six to nine thick-shelled, dirty-white, green-tinged eggs. These take thirty-five days to hatch, and the downy-grey cyneits are taken into the water by the mother at two days old, both the parent birds giving their young the most assidious attention. A few groats or a little coarse contineal thrown upon the water will be eaten with avidity by the youngsters, and corn may be fed regularly to lite old birds; or a trough by the edge of the stream or pond may have suitable food placed in water for the benefit of the whole family, who are models of affectionate attachment. The cyneis may often be seen on the back of one of the old birds whilst swinning. Swans fly well, for such great birds, when once fairly on the wing, but get up into the air with some difficulty, and always from the water. Their flesh is considered good eating when the birds are young, and used to be much esteemed at the tables of the great. They live to a great age, and resent interference, especially during the sitting period and when the cygnets are small; at these times the maleswan will exhibit pugmacity on the approach of any intruder, especially if a stranger. The young are very nardy. Swans pair for life, and in the wild state migrate from place to place in flocks.

## TURKEYS.

Utilitarian Turkeys.—The great "gobbler" of our farm yards came to us first from across the Atlantic four centuries ago. He was a wild aboriginal roamer of the praines and brush of North and Western America, and occurred in a varied form in Mexico, Yucatan, Honduras and the whole central portion of the New World. To Britain he took kindly and the Eastern Counties suited his development particularly well. In Norfolk the turkey-raisers fixed a type which secured high favour for the Christmas table, black, spotted white on the wings, and fine of favour, but not usually so large as what came to be called the Cambridge turkey, tawny grey of feather. Both breeds have latterly been improved considerably by the introduction of new blood from the mammoth cultivated bronze birds of America. Size, quality of feeth, and length of breast are much more sought after in the marketing turkey of to-day than beauty of apflesh, and length of breast are much more sought after in the narketing turkey of to-day than beauty of appearance or purity of pedigree. There are white turkeys to be met with occasionally in the yards, but they are not encouraged, being supposed to be delicate constitutionally. The Cambridgo "bronze" predominates inte stubbles of East Anglia because it comes to greater size than the darker Norfolk variety, though the latter gives the whiter and finer meat. The Cambridge turkey cock, April hatched, should make eighteen pounds for the Christm is market, the hen about two-thirds of that weight, both in their feathers. The bigger birds thirty pounds weight and over, are usually two-year-olds.

The American Bronze Turkey is the product crossing by Transathuto breeders between the best domesticated varieties and selected wild brids, and has been shown up to forly-five pounds weight and over.

been shown up to forty-five pounds weight and over.

The White Turkey runs rather small, but is pretty to look at, and choice flavoured in eating. The

pretty to look at, and choice flavoured in eating. The cock generally retains the hairy black tuff on his breast, and the red and blue on the head add to the attractiveness of the bird when alive.

Fanoy Turkeys.—The Mexican turkey has white in his tail and covert feathers. The Honduras turkey is beautifully ocellated, bionzy green in ground colour, bounded with gold, lustrous black, and lower down with intense blue and brilliant red. He has no hairy tuft on the barast, and the lower part of his naked nee k is smooth. This handsome bird seems only to flourish in tropical or sub-tropical regions. Crested turkeys have been known, but they were probably "sports" or freaks of nature.

Turkey Rearing.—Turkeys lay on an average from twenty to thirty eggs before wanting to sit, somethines considerably more. The period of incubation is twenty-seven to twenty-eight days. For the

first few weeks of their lives young urkeys require unremitting care at the hands of the rearer, being most delicate and liable to cramp, and so stupid as not to be able to forage for themselves sufficiently. As to be able to forage for themselves sufficiently. As they are mostly hatched under lens—six or seven is as many as can be covered properly—it is a good plan to put a few common fowls' eggs into the nest about the seventh day of incubation, so that the more active chickens, coming out at the same time as the turkey poults, may teach their foster brothers and sisters how to feed. The turkey is herself a good sitter and a capital mother, and she is generally given her last seven or eight eggs to incubate herself. The poults should be kept to a dry and sunny covered run, free from draughts and damp, which is death to them. Cleanlness must be observed in every particular, both as to feeding urensls—to prevent sourness in the food should be kept to a try and samy, which is death to them. Cleanlness must be observed in every particular, both as to feeding utensive-to prevent sourness in the food-and as to the state of the run and the coop or sleeping shed, the floor of which should be mised from the ground and covered with often-replenished dry soil of the floor of which should be mised from the ground and covered with often-replenished dry soil of the miss part litter. Reinember that on no account should the young turner to the floor of which should be mised from the ground and covered with often real, and see not used to the floor of the poults, just as much as they will clear up eagerly, and no more; and the diet needs to be judiclously varied. For four or five days custart of egg and milk, hard-boiled eggs, and mine d dandlehon leaves, or chopped boiled nettles, should only be given; afterwards greats, barley meal, with a mixing of boiled potato, and occasionally a little nee or other small grain, are good. To this must be added young lettuce or green onnons, cut up small, or dandelions again. A little pepper with the food is often given for stimulating purposes. It will do the poults no harm to run about on a sunny short-shaven giass plot when they are a month old. About the third day, and again at six and eight weeks old when "shooting the red," are their most critical times, and at holls these periods they require extra vigilance. Later they pick up strength wonderfully, and become exceedingly hardy, roosting out in the open in all weathers. They feed on barley tabiling, ineal, potatoes, turnips, and all kinds of food, especially if made into a mash with milk; they eat greedly when past the peris of poulthood, and glean most assiduously in the oat and barley stubbles after harvest. They want plenty of green meat, and some barck dust rts. scour their stonachs with, but they should never be given peas of any sort of pulse, for it is hurful. Turkeys are killed for market by ireaking their necks. never be given peas or any sort of pulse, for it is hurtful.
Turkeys are killed for market by breaking their necks,
the breast bone also being broken to plump them out.

## PEA FOWLS.

Everybody knows the peacock and his almost indescribable beauty, his proud carriage, and his harsh scream. He is a danty ornament of the lawn of many a mansion, walking, with mucing gait and wondrous tail extended, over the greensward, or sunning himself on some picture-sque terrace-wall or spreading tree branch. He comes from the gorgeous Orient, and has been acclimatised in Britain for lundreds of years. He has graced the banqueting board at many a royal feast, for his flesh makes fine eating. The domesticated pea fowl of this country is identical with the wild bird as found in India, China, and Ceylon to-day. The Javanese pea fowl inhabiting Burmah, Siam, and Sumstra also, is of even glossier indescence than the more generally known variety, and has a creat nearly twice as large; his hen, like that of his Indo-Chinese relatives, is very much soberer of plumage than himself, and also minus the noble occlusted tail. The black-winged or black-shouldered pea fowl would appear to be more of a "sport" than a distinct variety, and the white and pled specimens of the bird one occasionally sees are also "freaks." and not nearly so strikingly landsome as the typical species.

**Enagement.**—Pea fowls, once at maturity, seem pretty well able to manage themselves, given suitable surroundings; that it to say, a park to wander in at

will, and shade and shelter against climatic inclemency: and even these they prefer to discover and select. The shrill screech of the took when weather changes impend, or when he believes it will bring him a food The shrill screech of the kock when weather changes impend, or when he believes it will brung him a food donation, is scarcely chaming to the car. The birds should be fed with regularity, which will keep thein from flying far afield, and four to five females may be permitted to each male. The heav lay in a cunningly hidden nest, in some dense copse by preference, and six well, if quite undisturbed, for the incubatory spell of four weeks; they are the very best of mothers, and lead about their hitle ones for fully six months. The feeding of the chicks should approximate to that proper for the young of the guinea fowl: but if there is a good range of short grass, and immunity from feline interference there will be no need to hother much about them after the first fortnight, for the four mother will see to their every want. In the beginning the young cocks and hens are alike in appearance, the males not attaining any of their domainatingly distinctive beauty until eighteen months old, and not coming to full magnificence till the moult of the third year has passed. The pea fowl is a sorry sight during the moulting time, when he will mope and hide away, but it is soon over, and in his new bright plumage is proud enough to show himself again for admiration.

## 782 GUINEA FOWLS.

**Varieties.**—Three distinct sorts of the Guinea fowl are found in British collections, the speckled type from West Africa, Called there the Vulturine Royal Guinea West Africa, called there the Vulturine Royal Gunnea Fowl, and met with wild also in an identical form in the Cape Verde Islands and the West Indies. It is sometimes called the Pearl Gunnea Fowl, from the fancied revemblance of its spots to pearls. The body colour is grey, the neck lackled brownish-grey, homed on the top of the head, red-wattled, white under eye and on the earl lobes, slate-coloured legs. It carries the stern low, and has an arching back and tail in one long circular sweep. The white variety is wild in Madagascar, and the pied sort is said to be the result of a cross with the darker buds. There are blue and dun Gunnea fowls, almost spotless, occasionally to be met with, and in same cases the colouring of the commoner knul is reversed. cases the colouring of the commoner kind is reversed. the ground huc being almost white and the specking clark purple. The brids weigh about four pounds each, the male and the feniale being very much alike in appearance. Generally two heirs run with one male bird, and the feniale has a very harsh coll-note, like

the creaking of a greaseless axie. They are delicate eating, and lay many cream-coloured eggs pointed at one end, hiding their nests when they have liberty.

Rearing—Guines fowls are of wild and wandering habit, and will find food for themselves if not penned and kept in the country, roosting in the trees at night. They are quarrelsome, and "drive" other birds, such as pheasants and game, remorselessly. Guinea fowls do not often themselves want to sit, so that their eggs are placed under ordinary hens, and take twenty-six to twenty-seven days to hatch out. The chicks are pretty little brown-bodied things, beautifully striped, with the legs and beak orange red. They have very small crops, and require feeding it first almost half-hourly, on ants' eggs and insects, ground oats, chopped small crops, and require necting in first almost nam-hourly, on antis eiges and in-octs, ground oats, chopped egg, cooked meat, and chuken meal. It is quite as necessary to keep them free from damp as is the case with young turkeys, and the care in their rearing must be in no wise relaxed until the horn on the head is grown. Gumea fowls never dolyed! closely confined; they must have range to be healthy.

## PIGEONS AND PIGEON KEEPING.

Pigeon-keeping is a very interesting hobby, indulged in by many in town and country. As such it seems Pigoon-keeping is a very interesting hobby, indulged in by many in town and country. As such it seems to demand some little attention here, though of course ingoins are not poultry, neither do they properly come within the category of Cage Birds, because usually they are permitted where and whenever, possible by their owners to fly freely at blierty during at least some portion of the day, reliance being placed up at the "homing" proclivities of each pageon to bring it back to its own cote, where it knows food and protection await it. This of course does not uply to the more highly bred and valuable exhibition varieties which are kept in avances.

Pigoon-Breeding is a hobby which appeals strongly to those fanciers who have not spice at continuand to enable them to "ge in" for poultry-rearing, but even pigeon-keeping may become both engressing and costly if prized irds and champion flyers are "thinkered after." Before giving a few practical notes on poultry-keeping, we will briefly enumerate the leading

## Pigeons and their Points.

Antwerp.—A strong big-bodied bird, in fact, he largest of our English fancy pugeons, excepting the Runt. It has a very stort beak and massive skull, the preponderating colours are silver, dun, and red Archangel.—Rather uncommon; heal and breast copper coloured, wings, back, and tail rult, lustrous black or green, small crest, rich red eye
Barb.—Small, shightly wattled, rich pink ceres round the eyes, came first from Barbary; the colours are black white, vollow, red, and they

round the eyes, came first from Barbary; the colours are black white, yellow, red, and dun Blue Rook.—Common, good flier, containing many of the points of the dull originator of the domestic pigeon breed Carrier.—The "king of pigeons," almormally developed as to beak, wattles, and eye ceres; bother larger than the ordinary pageon. Colours principally black and dun, others white, blue, and pied. Head should be flar, narrow, leng, and struight. Not the fantous flier, but an exhibition bird entirely, and very costly, many having heen sold at Aroo cach.

costly, many having been sold at £100 cach.
Cropper.—A variety of Poiner, smaller than the
Ordnary English Ponter, and differs in shape and
feathering of legs. The Nowich Cropper has been
nuch faucled by breeders in the city of Nowich, hence the name. The Cropper is smarter and more active than the Ponter. Colours: black, blue, white, yellow, red, dun, silver.

Doves are mainly indoor pets, and are dealt with in

Dows are mainly indoor pers, and are dealt with in the Cage-bird section of this dictionary.'

Dragoon.—One of the wattled family, stouter and stronger in build than the Carrier, has a pey-shaped wattle, and its ceres are much smaller and finer than those of the Carrier. Colours: blue, blue-chequer, gruzz'e, silver, yellow, red, red-chequer, white, and meable.

mean.

Fantall. — Sometimes called the Broad-tailed Shaker. Tail spread and erect, neck long and tapering, breast round and protuberant. Colours: white, blue, black, silver, red, yellow, and chequer.

Helmet.—Rare, white-bodied, coloured, helm-shaued cap and coloured tail.

Homing Pigeon.—The "Carrier" of to-day—the fund most used for long-distance figure races. has been bred up to perfection by fanciers in Belgium and escewhere on the Continent, also in this country.

Homers, Show.—A large, strong variety which has been evolved by crossing the Aniwerp with the Homing or Racing Pigeon. A very handsome and powerful-looking bird, with stout beak, long, gract-infly-curred face and skill, dark ceres, and white eyes (foliours) black, black, sliver, yellow, red, dun, also chequers in these colours. The chequers produce the best show specimens. best show specimen

best show specimens.

Homers, Exhibition Flying.—Among the most popular varieties known to Lingboll breeders. It has been produced by the crossing of the Working Homer with the Show Homer, and is the latest creation in English Pigeon Circles. The clief points are stouties of heak, length and levelness of face, which should take somewhat after that of the Magpie in shape, dark ceres, white eyes, smart, alert carriage, shorine's of body and ferther. The Exhibition Flying Homer is a very landsome Pigeon, and a decided accuration. is a very handsome Pigeon, and a decided acquisition

Horseman.—A cross-bred Carner, rather less wattled, smaller and shorter in the neck, now

Jacobin receives its name from the frill of turned-

Jacobin receives its name from the frill of turned-back feathers running up the neck to the top of the head. Preity and distinguished looking. A very popular and largely bred vanety. Laugher.—Now rare : in size resembles the common Flying Tumblers, generally grey motted or red. Has a curious prolonged set of call notes broken with a sound like a little laugh.

Masple.—Marked like the mischievous bird of that

name; descended from a strain of German Tumblers. A smart, engaging bird, and one of the most largely

bred in England. Colours: black, red, yellow, blue,

bred in England. Colours: black, red, yellow, blue, sliver, dun, cream.

Modena.—An Italian breed which has secured great popularity amongst English breeders in the second decade of the twentieth century. It is a member of the family known as Hen Pigeons. The chief points are a short, round body, short wings and 111, the latter being cocked up and not carried down like that of most breeds. It is found in a great variety of colours, with most delicate and beautiful lacings, bequire inces, and markings.

chequerings, and markings

Num.—Small in size; the body colour is white, the
bread, ten outer flight feathers, and the tail are coloured;
at the back of the head there is a shell crest. Colours:

black, red., yellow, dun.

Owl.—Small, round-headed, shy, rose-frilled after
the fashion of the Turbit. Blue and silver the most esteemed colours.

Pouter. — A high-class bird with a globularly developed crop, should measure twenty inches from beak tip to tail end, stand very erect, and keep his tail off the ground. The English variety is said to be a cross between the Horseman and Cropper. Colours: blue, black, yellow, red, strawberry.

Rock .- The common pigeon generally provided for shooting matches

Runt.—A bird of extreme antiquity, one of the oldest, as it is the largest breeds; a pair of Runts will weigh from 4 lbs, to 5 liss. They are ungamly, clumy looking birds, and not much appreciated in this country. Colours principally blue and silver.

Shaker .- Another name for the Fantail; the narrow-

tailed shaker is a half-bred Fantail.

Trumpeter.-Takes its name from its deep voiced note; is noisy in spring, or when highly fed Feathered on feet and legs, has a shell crest at back of head, and

on test anti legs, has a sine; crest at tack of head, and a twin-crown arrangement on head, known as the rose. Colours: black, white, and mortled.

Tumbler,—Short and long-faced, fine filers, with a peculiar falling attitude at times on the wing. Short eigged, wings drooping to the ground, neck squat, chost broad, head circular, eye central: Almont umblers are much prized, the normal colour being the command colour being the command colour being the control of the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being the colour being that of the shell of the nut named, with black and white on the end of the quil feathers, and the body spangled with black. There are many colours and varieties. In self colours, red, yellow, black, white, silver Beards which have a white mark under the boak, and Baldwhich have a white head are found in all colours mentioned. There are also chequers and blue-harred. In the Mottles and Rosewings there are blacks, reds,

and yellows. The Tumbiers are again divided into Muffed and clean-legged.
Turbits he have the breast feathers reversed and standing out full fashion. The best fetch fancy prices. Turbits have short beaks and small round fronted heads, with the top somewhat depressed, and a large eye. Colours: black, blue, yellow, red, dun, straw-

Pigeon-keeping Notes.—Pigeons are best kept in a dry and draught-proof loft—into which neither rats nor cats can get—with shelves ten inches broad or so running round the walls, and partitioned into compartments of say, sixteen inches wide, with an entrance hole towards the end, yver an alighting board. The water fountains should be replenished daily. The old birds must be properly fed with maple peas, tares, dari, wheat, and a little small maize. Some of the larger breeds need the addition of teck beans, especially the Homing Pigeons, while some of the smaller, such as Short-faced Tumllers, Ornertals, and Foreign Owls, do not require maize, and few peas. They must be supplied with old mortar, gravel, and salt—or "salt cat"—and great cleanliness ought to be observed in the cote or with old mortar, gravel, and salt—or "salt cat"—and great cleanliness ought to be observed in the cote off. The pigeons will begin to breed at nine months old, and each pair will, if allowed, have six to eight nests (always two eggs at a time) during a year, and continue to breed for several years. Valuable pigeons should not be allowed to nest more than three times in the senson. The period of incubation is 18 days, and the "squeakers" are fed at first by a secretion of the old birds called "soft food," and later with disporged corn. The young cock birds are rather larger than the hens, and have a more prolonged squeak. A variation in dietary is good; the birds will eat any kind of corn and small beaus, as well as peas, tares, and vetches. Lettice, mustard and crees, small cabbages etc., are suitable green food. Pigeons are apt to etc, are suitable green food. Pigeons are apt to breed feather lice, which tobacco funigation will clear away; white-washing and the free use of disinfectants will keep mites out of the nest-boxes and off the birds; while ticks may be dislodged by sulphuring. The white ticks may be disloaged by suppliering. The birds are hable to a few ailments; wet roup should be combated by steeping green rue or mixing permanated of potash in the drinking water; dry roup, which comes mostly at the moulting time, may be cured which comes mostly at the moining time, may be cure to be two or three cloves of garlic sometimes; canker is often caused by the birds pecking each other, and the sore parts may be rubbed with honey and burnt alum; magnins are incurable. In difficult moulting saffrom may be given in the water to stimulate the birds; heinp seed is also beneficial at such times.

## CAGE BIRDS.

## British and Foreign,

It will be convenient in this section of the dictionary, to give in alphabetical order a few particulars of the principal kinds of birds, foreign as well as Batish, kept as cage-pets or in aviaries, indoor and outdoor, noting the leading points of the chief feathered favourites. These notes are supplemented by concise useful information concerning cages and their selection, the stocking of aviaries, the treatment of bird diseases, etc.

Bengalee.—Pretty fawn and white birds, much petted in Japan, and introduced as aviary subjects into this country by the dealers. Not much of singers, nest freely, but generally neglect or entirely desert

nest freely, but generally negrect or enursy uses...

Blackbirds.—Lively and bright, this familiar songster of our shrubbenes and hedgerows takes kindly to a cage if hand-reared from the nest. He needs a good-sized wood-shell cage, and besides crushed hemp-seed and bread, rape and other seeds, should have a few worms, slugs, and misse-ts given him as ut-bits, and a bittle ripe fruit occasionally. He will sing his thanks for these attentions, and his ebony feathers and crocus beak and eye ceres will be all the brighter fire them.

feathers and crocus beak and eye ceres will be all the brighter for them.

Bulbul. Oriental varieties of the Nightingale, useful avary birds, very fond of ants' eggs and mea worms. Head, crest, and throat jet-black, rest of plumage chiefly olive-green, tail long and graceful,

must be protected from frost. The red-vented Bulbul is brown on back, tail, and wings, black on crest and top of head, red on vent, and red spot under eye; chin,

top or nead, red on vent, and red spot under eye; chin, throat, and ears white.

Bullfinch.—Black on head, rosy red-breasted, this familiar hard-beaked British finch is very much of a small cage or awary favourite. Freed on Cerman a smail cage or aviary isodonic. Freed on German summer rape and canary seed, and occasionally, by way of a treat or change, give crushed hemp-seed; also give a tree branch to peck at for buds and insects. Bull-finches will pipe almost any tune if patiently raught.

Buntings are all pretty avirary birds and the Yellow-hammer is the most familiar of the family. It

Yellow-hammer is the most familiar of the family. It requires insects as well as seed food to keep it in good health. The Cirl Bunting is distinguished by a dark trangular patch on the throat; the Corn Bunting, a shy bird, is rather larger than the Yellow-hammer, greyer in colour, and speckled on the breast; the Blark-headed Bunting, is black on the throat as well adhe head, it is a winter visitor to Britain; so is the

apland Bunting a somewhat smaller bird, with the lack marking reaching on to the breast. The Snow black marking reaching on to the breast. The Snow Bunting is mainly white, with some chestnut feathering; it dislikes heat, and prefers a stone to sit on to a

it disilies heat, and prefers a stone to sit on to a perch.

Canaries are of many sorts, much hybridised and specialised by the fanciers. The bird came originally from the Canary Isles, where in the wild state it was not yellow as we generally know it, but a dark folive green. The deep yellow colouring, originally a sport, has been fixed by selection. The leading varieties are the Yorkshire, the Belgian, the London fancy, the Scotch fancy, the Norwich crest, the Norwich plainhead, the Lancashire, the Lizard, the Cinnamon, and the Border fancy, all of which have numerous well-defined sub-divisions. The canary has also been a great deal "crossed" with other birds of various breeds, the result being what is known as "mules," as the goldfinch mule, the limnet mule, the greenfanch mule, the siskin mule, and the builfinch mule, all these, of course, being inferrile. Of what are known as canaries proper, there are several distinct classes of newly every one of the leading varieties, the plain or self-coloured, and the variegated, each of wnich is again divided into yellows and buffs, or as the old used to style them jongues and meales. There is considerable diversity of size as well as of colour, shape and marking; thus the Coppy has been bred to eight inches long, while the little Border has been dwarfed down to nearly half that length. In different localities the fanciers fix their types of excellence according to their own ideals, and set up standards which "rule out" all the rest. The Yorkshires, whatever their colour shade, must be models of extended uprightness; in the Soctch, shoulders must perch which "file our au the rest. The Torkshires, what-ever their colour shade, must be models of ex-tended uprightness; in the Scotch, shoulders must be as heavy as possible, whilst the front of the bird must be cleaned out like a half circle or bent like a bow must be cleaned out like a half circle or bent like a bow in tension; the Belgian must droop the head and shrug out the shoulders, the more the better; the Norwich is nearer the normal as to outline and build, high colour being aimed at by the breeder as much as nicely-rounded plumpness. Cinnamons are slightly less "stocky," fawn of hue and always red-eyed; the Lizard must be dark and dusky of body colour, capped and expended smallness such hum is congrally recoped. Lizard must be dark and dusky of body colour, capped and spangled, smallness with him is generally reckoned detrimental. The Lizards arestyled golds and silvers, not yellows and buffs as are all the other breeds. Variegation, too, is the forte of the London fancy; and, as for the crested classes, everything with them is subordinated to "topping" development, even to the point of compelling the poor bird to look only downward upon its little world. Green canaries there are too; and every shade imaginable of yellow-self, from intense orange, eloquent of cayenne and mangold diet, down to the pale primrose of the buffs. Harking away again from simplicit, all the graded colourings. down to the pale primrose of the buffs. Harking away again from simplicity, all the graded colourings, from the full rich jonque to the washed-out white, may be either mottled or splashed in contrasting darkness, clearly and without "running." So that the canary fancier can give "points," almost to infinity, to the feathered object of his hobby, even though he may incline to contemptuousness of the divergent choice of others. In addition to all these, which may be termed the show varieties, there are the German Rollers, so much esteemed for their song, which at one time were always called Harz Mountain Rollers, but now-aclays the best are not those from the Harz district. Choice Rollers are very valuable and may cost anything

Choice Rollers are very valuable and may cost anything from sex to f.to.

Cardinals are American birds, some of them as large at hurshes, rather sparrow-like in shape, big and strong of beak, pugnacious of habit, and often prettly geathered. The Cardinal Grossbeak, on-Virginian Nightingale, is the gayest of the group, carmine red with a black ring round the bill and a patch on the chin of the same hue. The Grey Cardinal, rather smaller, comes from Brazil, is sitely grey to white on the under parts, crest, head, and throat scarlet; the Green Cardinal is yellow and black, with a greeny sheen; the Pope is a little smaller, crestless, with the red feathering short and slight; and the Yellow-billed Cardinal is the least of the family, with a browny-red head and a bright yellow beak. All make active and pretty aviary birds, and require some shalter in winter; food, chiefly

canary seed and millet, with ants' eggs, insects, and

Chaffinches are handsome little birds favoured in Chaffinches are handsome little birds favoured in Germany as house pets. They sing and learn tricks well under patient teaching. Their food should be similar to that of the Canary, only giving more rape seed. In the moult they mope much and are very apt to pine and die. They brighten up an outdoor aviary much, and will nest if given the necessary accommodation.

accommodation.

Cockaticles are properly speaking parakeets, and though crested not at all allied to the cockatoo family, with which on that account some associate them. Cockatiels are grass or ground birds, with great switness and activity as a forager for food on foot. Seeds, insects, succulent roots, and small fruit, are the staple food. The cockatiel is a capital aviary subject where space is ample. It is grey and white, with a little yellow in the breast and on the face, dull red on the ear coverts, and black under the tail.

Cockatoos are amongst the most striking and attractive of the paror trace, most of them capable of a considerable amount of culture in the matter of tricks and talk, and generally gentle and graceful

act considerable amount of culture in the matter of tricks and talk, and generally gentle and graceful under domestication. The snowy-white lemon-crested Cockatoo from Australia is a prime favourie; the rosy breasted, triple-crested Leadbeater's Cockatoo is particularly handsome; the Great Salmon Cockatoo from the Moluccas is also mainly white, with a pearibloom tinge on the front, a broad backward inclining crest, and puffy, loose feathering; the barne-ped Cockatoo of Western Australia, spare of crest, red-throated, is about the best of talkers of a numerous loquacious family. The Antipodean Rose Cockatoo is occasionally mistaken for the Grey African Parrot, but his white head and small crest should save him from being so confounded, though the latter lies flat when the bird is not excited, and he has his bit of red colour on the breast and not on the tail; the slender-billed Cockatoos have the upper mandible curved forbiddingly and lengthly over the lower, but are very tractable birds for all that. There is a Goliath Cockatoo, by of beak, and sooty feathered, which tractable birds for all that. There is a Gollath Cockatoo, big of beak, and sooty feathered, which comes from New Guinea; some "all blacks"—forming a kind of fink between macaw and cockatoo—rather scarce Australian birds; and a number of pretty sulphurous to ochre-crested white cockatoos from the Carolinas and Philippines, all small and black-beaked.

Thinkare are shy stream-raders and unjuly water.

Dippers are shy stream-waders and mainly water-feeders, as big as blackbirds, save for the shortness of the tail. State grey on the back, white breasted, browner below, tripping of gait, can swim well, using their wings as fins. Only fit for a large aviarr, with a

browner below, triping of gait, can swim well, using their wings as fins. Only fit for a large aviary, with a little stream and secluded nooks in it.

Dowas are gentle, engaging little pets, and will, most of them, breed in suitable wicker cages or aviaries if themselves hand-reared. The Turtle Dowes are prime favourites, but the Ring Dowe or common Woodpigeon, the Stock Dove, and the Rock-pigeon are all kept in eages, or aviary compounds, with success. Our Turtle Dowes or are all kept in eages, or aviary compounds, with success, our Turtle Doves or the larger Egyptian Turtle Dove. Those with plenty of aviary room may keep some of the other very pretty foreign doves which the dealers have spectmens of at times, such as the Long-tailed Masked Dove from the Cape, sometimes called the Harlequin; the crosted Goura of the Philippines, the Nicobar Pigeon, the Bronze Wing, the delicate Diamond Dove, the plump little Zebra Dove, the gistening Greenwinged Dove, both from the gorgeous Orient; the charming Tambourine Dove, chocolate above and white below; and the plink-eyed pure white Java Dove. All the latter must be kept warm and given room to come to

white below; and the pink-eyed pure white Java Dove. All the latter must be kept warm and given room to exercise their wings to be a success. Canary and milet seed, with dari and soft oats, suit the smaller doves, the larger may have any good corn peas, vetches, and buckwheat as well.

Finches of all kinds, foreign as well as British, make admirable aviary birds, and most of them will nest under confinement. Chiefly seed-caters, they are all, more or iess, fond of millet and canary seed, and like ants' eggs and meal worms, gentles, etc., especially when rearing young. The Green and Grey Singing Finches are great favourites with many bird lovers, the

former being sometimes styled the Cape Canary. The tropical and sub-tropical finches are, of course, suited only for indoor aviaries, at least in the winter time. Some of them cost a lot of money.

Flyoatchars are shy but restless little birds, not unlike itts in action, but longer tailed. They need either a large cage or an aviary to do well, and must have as much insect food as possible, mealworms, ann's eggs, etc. The Pied Flycatcher is the commoner, the Spotted Flycatcher and the Red-Breasted Flycatcher—the latter not unlike a little Robin—are also sometimes seen in confinement,

catcher—the latter not unlike a little Robin—are also sometimes seen in confinement.

Greenfinches are pretty birds, but poor singers. They have powerful pointed beaks, and a patch of bright yellow on the wing. Ordinary bird-seed will do for this hardy finch.

Goldfinches, or Redcaps, as some people prefer to call them, are the most beautiful of British birds, besides being fine songsters. At first—and until the moult—the young birds are grey feathered on the lead. Their rape-seed should be scalded, and any hemp seed given them ought to be crushed; thistie and teazle-seed should also be given them. Goldfinches are very fond of green-stuff, but it is important that it should be fresh, and their dranking water should

finches are very fond of green-stuff, but it is important that it should be fresh, and their drunking water should come from a pond or well.

**Backda-wa are the smallest or our crows and not the least mischievous. The bard is generally allowed to ramble at large during the day time, having half a dozen wing feathers clapped to keep him from flying right away. The male has more crest and more grey on the head than the hen. They can be taught a lot of tricks and seem to know many intuitively. Jackdaws are onnivorous and will take anything from the table; but they ought to have a dead mouse occasionally as a treat to keep them in condition.

treat to keep them in condition,

Jays must be kept to themselves, or there will be murder in the avary; a big lasket cage is best for them. They are beautiful birds, with a lot of blue about them, and very bold. The cocks can be taught to talk. They are fond of pens and beans, worms and insects generally; and must have a certain proportion of animal food of some sort.

Keas are the Parrots of New Zealand, and though Reas are the Parrots of New Zealand, and though by nature mainly hel bivorous, enjoying a varied diet of roots, berries, and seeds, they have contracted a taste for kidney fat, and indulg at to such an extent that they have become wanton sheep-killers in the eagerness to procure thus damy fare.

Kingfishers are bright and beautiful birds, and require a large avairy with running water and living fish in it for their food, and convenience for seclusion.

They take very badly to confinement, and are so dirty in their habits as to be quite mosnited to any sort of imprisonment. The Halcyon of the ancients, the Kingfisher is altogether out of place in a cage.

Larks will strive to soar whenever they wish to sing, so that a soft cloth or baize top must be provided for their cage, also a fresh turf for them to peck at. They do much better in a large cage than in a small one,

They do much better in a large cage than ma small one, with plenty of room to run about, and road-dust to roll in. Larks require insect food as well as seed.

Manakins are Central American birds about as big as our thrushes. The Bronze-Spotted and Golden-Winged species are mainly black and white, with very sheeny shoulders. They live in the damp depths of the forests of Brazil and Guiana, and feed on seeds and insects. Sometimes will breed in a large and warm aviary or bird room. The voice is inharmonious.

**Hocking Birds** are American thrushes, long of tail, grey and white in colour, and not such fine singers

tall, grey and white in colour, and not such fine singers as they are generally reputed to bo. They may be treated in captivity like our own thrushes, and should have a little insect food in variety.

Nightingales do not sing in cages so well as in the woods or shrubberies, which they make melodious with their summer warbling by day as well as night. They are readily hand-reared when taken from the rather slovenly nest and fed on ants' eggs, meal-worms, gentles, and almost any insects. Very small red garden worms, not over an inch long, and cut in two, may be given to them; but being migrants, they are difficult to retain in captivity for any length of time in

Matchless in song they are soberly clad,

brownish-red above and grey below.

Nuns are Asiatic and African finches with white or black heads, and should be treated as other foreign birds of the same character, whether kept in small

birds of the same character, whether kept in small carges or as aviary specimens.

Rusmag Birds, sometimes called Spice Birds, may be reckoned relatives of the Nuns, and need similar treatment in captivity. They are chocolate coloured above and brown speckled on white beneath.

Linnests are sweet singers, and should in captivity be accommodated with larger cages than the tiny cramping wired boxes usually provided for them. Grey, brown, or speckled feathers are worn at different periods by these birds, and the cocks have a rosy breast tint autumnally when at liberty. Small seed are their only accessory food. They interbreed with are their only accessory food. They interbreed with

are their only accessory food. They interbreed with the canary, the linnet mule being a very fine songster.

Love Birds are most interesting pets, pretty of way as well as pretty of feather. Millet is the best seed staple, while or spray, and they will most of them eat cooked maize, ants' eggs, and sweet sponge cake. The so-called Abyssinian Love Birds are green and yellow with back markings and red bills, surrounded by a broad band of orange. They really come from the West Coast of Africa, and must be kept warm and out of all draughts. The Rosy-faced Love Burds are rather larger, and have the mask on Love Birds are rather larger, and have the mask on the face of a pretty peach shade, and the bill white. They will bred in confinement sometimes if given a cocca nut husk to nest in.

Magples are chattering and destructive Pies, and should either have restricted liberty or a large cage. They will eat anything, and are restless lumps of mischief. The common British Magple is in the spring-time, velvety-black, relieved by pure white on

wings and breast.

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Parrakeets are magnificent birds, many of them. Much smaller than the macaws, they have long taper-mg talls like them, but feathers on the cheeks instead of bare skin. There is an intermediate group. minicis smaller than the macaws, they have long taperming talls like them, but feathers on the checks instead
of bare skin. There is an intermediate group, with
partially-feathered checks, called macaw parrakeets.
Parrakeets are gentic, vivacious, and apt at talking.
They are found in the forests of every part of the
world save Europe, and their plumage is chiefly green,
with markings of red or blue. Perhaps the Rosella
Parrikect of Now South Wales is the most beautiful
and brillain of any, though the King Parrakeet, the
lighest of the Antipodean Broad-tails, is another particularly gorgeous burd. Of the smaller parrakeets,
noue is more striking than the Auriceps, or Goldenheaded parrakeet of New Zealand. It is only \$\frac{3}{2}\$ inches
long which full grown, and half of that is tail. The
forehead is scarlet, with a band of golden-yellow
behind. Most of the rest of the feathering is green,
with some blue and yellowish-grey. Maize, either
cooked or raw, hemp-seed, mits, fruit, biscuit can be
fed to parrakeets and all the parrot tinbe, and they
should be offered clean water to drink two or three
times a day. times a day.

times a day.

Parrots are a large family, and properly speaking, do not include the long-tailed macaws or the gorgeous lories and lorikeets, nor the parrakeets, cockatoos, and cockatuels already treated. All of them require protection from cold, and cages or perches, which may be placed out of doors in the simmer. The dietary has been indicated sufficiently, save that the lories need boiled rice, sweetened with honey. They want water to bathe in, and must be kept out of draughts. Sop is not a bad thing for parrots for a change, but they ought not to be given meat. Chickweed and ripe corn in the ear are enjoyed by most of these birds. Some will live to a great age in captivity. Perhaps the corn in the ear are enjoyed by most of these birds. Some will live to a great age in captivity. Perhaps the Grey Parrot from the African West Coast is the greatest favourite, but the Green Amazon is favoured by some. Their beaks are very powerful. The aras or macaws come from Brazil and other parts of South America. Rawens are quick, segacious birds, full of fun and frolic, and quick to learn any kind of talk. They want a lot to eat and plenty of room. What they can't eat they'll hide. The hen is larger than her male, but not or closely black. They like tasty food, and will destrow

so glossy black. They like tasty food, and will destroy anything for mischief's sake, even to eating white lead and staircases, as Dickens's used to do.

Redpolls are very like linnets, except as to size, being a little smaller. They come to Britain to winter, and tame readily, breeding late. The young may be hand-reared on bread and milk, or a paste of buckwheat flour. The red on the poll and breast will not long remain under captivity, either in cage or aviary. Shamass are Indian birds of robin-like habit, ten inches long. They are good aviray burds, of very handsome black-blue, and rich brown plumage, and may be fed as recommended for the nightingales.

Bhrikess are the smallest of British birds of prey, and must, of course, have insects and flesh food, such as small mice, or pieces of rabbit with the fur adherent. In an aviary they must be kept away from the young of other birds, or they will certainly destroy the nestings. The Red-backed Shrike, or Butcher Bird, is rather a fine-looking fellow; the Great Grey Shrike is more of a rarity, and the Lesser Shrike and the Woodchat are not often seen in collections.

Biskins are yellowy-green to greenish-grey, with black on the head and throat of the male. They smaller feeding to that bird or the linnets and other flowers are the small stallers at times and good.

Starlings are capital talkers at times, and good awary birds, with a quaint way of walking when foraging for food. They eat many insects, and are fond of berries and soft, ripe fruit. In the springtime they are very beautiful when the sun glints on their justrous plumage.

plumage.

Tanagers are American fruit-eating birds who like
a few insects occasionally, but prefer grapes, ripe pears,
sunanas, oranges, and summer fruit generally. Sometimes they live solitanly, sometimes in flocks, the Grosbeak Tanager building quite a luttle bird town in the
top of a palm tree for the accommodation ot a large
family group. The Scarlet Tanager is the brightest
of the Tanager species.

Thrushas require similar feeding and accommodation to their Blackbird relatives. They will sing very
sweetly in a cage, are very fond of sunflower seeds and
fat white slugs or shell snails.

Tita fire most interesting avlary birds, their quaint

sweetly in a cage, are very fond of sunflower seeds and fat white slugs or shell snail.

This fip most interesting aviary birds, their quaint next building and peculiar way of turning topsy-urvy in searching crannies of bark for insect food being most diverting. The Great Tit is black on the head; the Blue Titmouse is half his size; the Coal Tit has white checks and a grey back; the Crested Tit is a rare Scottish bird with a tuft on its head; the March Tit is darker that the Coal Tit except for the absence of the black patch on the throat; the Long Tailed or Bottle Tit hangs up its wonderful mossy nest to a tree branch; the Bearded Tit is now very rare. All must have ants' eggs or insect food of some sort, and they prefer to find it for themselves.

Maghalia are restless waders, some call them 'Peggy Dishwater' because of their quaint habits. They are insect eaters in the main, all the varieties, and they should never be caged, but kept in aviaries with a running stream and a grass plot.

Marblars are a numerous family, headed by the Nightingale, already noticed, and including the Blackcap, Dartford Warbler, the White Throats, the Wrens, and the Chiffchaff. In captivity they must have ants' eggs or similar food.

Waaver Birds are little African species varying from sparrow to starling size, and very good aviary birds, especially when they can be induced to do their wonderful nest making either for pastime or nidification. They are a numerous family of many colours, as some of their names sufficiently indicate, and all will eat millet and canary seed.

Maybab Birds are long-tailed, hard-iffiled, seed-

eat millet and canary seed.

Whydah Birds are long-tailed, hard Miled, seed-esting birds about as big as Canaries, and coming from Senegal, and South Africa. The peculiarity is the disproportionately long tail which the male develops

at the breeding season. They change their plumage twice a year, and the Paradise Whydah has take feathers thirteen to fourteen inches long, without being the most liberally endowed of the family. They want millet and other soft seeds as a staple, with

They want milet and other sort seeds as a staple, with some insect food or ant's eggs.

Awiaries and Ewizary-stocking,—aviaries may be indoor and outdoor affairs, simple and inexpensive, or ornate and costly, according to the taste and the means of the bird-fancier. They may be part of a conservatory partitioned off, with hanging and other plants in it, and capable of being heated to sunt the needs of tropical and sub-tropical birds. In that case there should be ample accommodation for the numbers plants in it, and capable of being heated to suit the needs of tropical and sub-tropical birds. In that case there should be ample accommodation for the numbers and species included, and a proper sorting of the birds without overcrowding. Ventilation should be perfectly arranged for, and great attention given to cleanliness, for strange bright birds otherwise would soon become bedraggled and miserable looking. A good deal can be done in a bird room with exotic feathered favourites by an ingenious handy man; but the hobby is rather an expensive one if the fancier has to go often to the dealer's. It is well not to attempt too much, and a study of the foregoing paragraphs will be found helpful if the natures of the various birds and their habitat be borne in mind. As regards the hardier British birds, most of them are suitable for keeping in an outdoor aviary of sufficient dimensions. It should be about fifteen feet high, zunc-roofed, and properly guttered, opened to the south with a wired front and glazed sides, and a stout back of brick or woodwork, all well-constructed. The perches and trees, nesting accommodation, etc., should be as close a following of Nature as possible at all points, and there nuss be proper cover and seclusion and the necessary water supply. and seclusion and the necessary water supply.

Cages.—Blackbirds, thrushes, and such birds should

and seclusion and the necessary water supply.

Gages.—Blackburds, thrushes, and such birds should be placed in roomy cages, with a draw-out floor for cleaning, boarded back, and covered food and water vessels; larks require a board front to take fresh turves, and a soft top to the cage; canaries and the finches generally may have all-wire cages, or wire with apanned metal top or back, in the shapes known as Chinese, Gothic, Cottage or Arched. Glass part of the way up conduces to cleanliness.

Bird Diseases and Bird Medicine.—Fip is the commonest of bird ailments, being of the nature of a cold. A pill of butter or pepper will sometimes of good. Epilepsy arises usually from over-feeding; olive oil may afford relief, or plunging in very cold water. Moulting time requires very careful feeding, extra cleanliness, and perfect freedom from draught, with a little iron infusion in the drinking water. Safron is good for costiveness, especially if given with linseed oil, and for catarth speed well infusion and some pectoral elixir may be recommended. Giddiness may be prevented by covering the cage-top with a cloth in many cases. Feather eating is most frequent where the confinement is close and the cage small; room for flight will generally cure it. Overestimulating for will make any bird ill, and very likely kill it in the end, will make any bird ill, and very likely kill it in the end. the confinement is close and the cage small; room for flight will generally cure it. Over-stimulating food will make any bird ill, and very likely kill it in the end; let not this error of dietary be perpetrated by any bird-lover. Asthma comes of letting a bird, accustomed to artificial heat, get into a draught; many cage-birds are ruined thus. Generally speaking, a bird hanging in a window is in a draught. We are no advocates for bird coddling, but keeping your pet out of currents is most essential. If your cages and perches are quite clean always, and you keep the claws of your birds mostly cut, there will be little fear of sore feet. Camphor water, weak, is good for washing the feathers of birds suspected of harbouring of sore feet. Camphor water, weak, is good for washing the feathers of birds suspected of harbouring washing the leathers of birds suspected of harboring red mite, and a good insecticide may be used at the nesting period with advantage. Fir-tree oil is recom-mended. The higher the cage is hung in a room the worse the air for the bird.



EDITED BY

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Editor of the Cuisine and Le Ménage Department of " The Queen."

# Pears' Dictionary of Cookery

## INTRODUCTION.

## By A. BEATY-POWNELL

(Editor of the Cuisine and Le Ménage Department of "The Queen").

When "wild in woods the savage ran," the art of cookery was not much better understood than the art of painting; but as civilisation advanced the sense of taste developed as well as our other senses (as Nature intended), and the cook came into existence. So, from century to century, the art of cookery has progressed, and at the present day has attained a degree of

perfection unknown in any previous age.

But cookery is an art of many branches; and it may be on expensive or on economical lines.

There are people who imagine that good cookery is mainly a matter of cost; but this is a mistake. Good, sound, healthy cookery comes as much within the scope and duty of people of moderate purses as of the rich. Beyond a certain limit, cookery loses itself in those higher reaches

of delicate refinements that may properly be left to gourmets of leisure, taste, and means.

This Dictionary of Cookery aims at being a practical, serviceable guide to good cookery, adapted for the ordinary household.

Everyone knows the difference between a meal, simple in itself in the extreme, and yet nicely served, and the same meal served anyhow, and it is the aim of this Dictionary of Cookery to show how this may be done.

English cookery has long been a term of reproach, but this at last, owing to the strenuous efforts of men and women who are authorities on their special subjects, is fast becoming a thing

of the past.

For some time now the meals of those who have not to consider expense have been served with a view to obtaining the best results in the simplest manner, and yet with absolute perfection. with a view to obtaining the best results in the simplest manner, and yet with absolute perfection. All fashions filter down, and lixely by some has proved no exception to the rule. Little as it may be imagined, in years long gone by English cookery held a really high position in the culinary world, and English cooks were justly famed, and there is every prospect, with the increased advantages at people's disposal, that this may once more become the case.

The great secret of success in cooking lies in making the best of the materials at our disposal, and this applies equally to every class. It is gradually being borne in on us that there is no reason to limit ouvselves to the eternal round of joint, whether beef or mutton, varied occasionally by a chop or beef steak. Everyone should air, at giving variety, and the directions that follow

are such that any one with a good will may follow them,

Every woman should make a point of grasping the fundamental principles of roasting, boiling, and frying, and last, but by no means least, should understand the proper way of making the simple sauces, for there is the greatest difference between melted butter, for instance (the sauce that is perhaps the most commonly used), properly made, and the ghastly paste-like substance which usually is served in many households.

The following recipes are intended for the average household, but offer a number of ways of serving the most ordinary food, and yet are within the means of most homes. They are alpha-

betically arranged for greater convenience, and are given in the simplest possible terms.

Much of the happiness of the home depends upon the manner in which the daily meals are cooked and served. Where the cooking is bad, it is wasteful; where it is good, not only is exoneny served, but health; and by varying the menu from day to day, however homely the range of fare may be, the palate is ministered to, the appetite is strengthened, and every day becomes more or less a day of good cheer. A sense of comfort and gladness always accompanies

the serving of a dainty meal; and in the following pages will be found an adequate round of suggestions for satisfying all reasonable culinary tastes and requirements, without involving unnecessary cost.

Before proceeding to give a selection of approved recipes for various dishes, savoury and sweet, covering the whole range of cookery-poultry, fish, meat, vegetables, fruit, pastry, and confectionery, as also pies and puddings of many kinds—suited to the table of an ordinary house hold, we propose to devote two short introductory sections to useful notes and hints on the kitchen and cookery generally. The opening section deals with kitchen work, kitchen utensils, and the care of the larder, and each paragraph, complete in itself, is sequential in a way to what has preceded it. This is followed by the section in which numerous homely, but important, Cookery Hints are similarly arranged; after which, in alphabetical order, under a sectional system of entry, with cross-references to prevent repetition and facilitate consulta tion, come the culinary recipes, all given in the plainest possible language.

## KITCHEN NOTES.

Beef Choosing.—When beef is chosen see that it is of a bright red colour, and the fat a rich yellow. Should a sirioh be purchased, see that it has the undercut, if you are able to cook fillets of beef; they are quite delicious, and make a sirioin a two days hot dish. The fillets should be served the first day, as they are taken from the undercut, and the next day

they are taken from the undercut, and the next day you have the sirloin ready to roast.

Beaf, to keep Sweet.—To one gallon of water add one and a half pounds of coarse salt, half a pound of brown sugar, half an ounce of pearlash, and half an ounce of saltpetre; mix and heat to boiling point, and skim well; let cool, then pour over the meat.

Butter,—To test whether a suspected compound is butter or oleomargarine, melt it, immerse in it a bit of cotton wick, and set the tip alignt. Butter burns with a desirt and acrees ble odour. While oleomargarine.

a dainty and agreeable odour, while olcomargarine has an unpleasant smell.

Butter, to keep Firm.—In hot weather, fill a large basin with cold water, put as much kitchen salt in as the water will dissolve, fold butter in grease-proof paper, and drop it in. Stand basin in the coolest corner of larder.

Cakes, to keep Nice.—Have large cake boxes, or a stone jar, and cover closely with a tight-fitting lid.

Cheese, to prevent Mould in.—Rub the cut

Cheese, to prevent mould in.—Rub the current with butter, and cover with white paper.
Coffee and Teapots, to be kept sweet, should be scalded after using every time; also, occasionally throw into them a cupill of wood ashes or some powdered borax; fill with cold water, and bring slowly to a boil.

Eggs, Buying and Teating.—In buying eggs, a clean; rough shell is to be preferred to one that is smooth and attely. The most certain test is to put

smooth and sticky. The most certain test is them one at a time into a basin of cold water. laid egg will sink like a stone; an egg that has been laid a few days will rise a little at the largest end, and in proportion, as they become actually stale, will

in proportion, as they become actually stale, will assume nearly an erect posture in the water; an egg that floats is infallibly very bad.

Fish Chocsing.—Any fish that is broad and thick of its kind is to be preferred to those that are thin and narrow. See also that the eyes are bright, the gills red, the scales closely laid and shining, and that the fish feels stiff. Stale fish has always a limper feel, especially about the vent; the eyes become filmy, the scales brown and flabby, and the whole presents a dinry appearance.

especially about me vent; the eyes become many, the scales brown and fiabby, and the whole presents a dincy appearance.

Figh, to Keep.—If fish is found to be slightly tainted, a good thing is to steep it for a short time in a weak solution of permanguante of potash or boracic acid, which destroys the tainted particles, and leaves the fish perfectly sweet and wholesome.

Food of any kind must not be suffered to become cold in any metal utentil; even film or iron, however cleen, give an unpleasant favour.

Food, keeping Warm.—When it is necessary to keep a meal warm for a late country, place the plate or

dish in a steamer, over a pan of boiling water, pro-tecting with a cover that will just fit over the edge.

Glasses in which milk has been served should be plunged into cold water before they go into warm water. Egg-spoons and cups should be treated simi-larly. Egg stains can be removed from spoons by rubbing with a little sail.

Ritchan tables and shelves may be kept very white and clean if you have this mixture used for scouring them with. Half-pound sand, half-pound since. Work the dissolved soap into the dry ingredients. Fut the mixture on with a scrubbing brush, and wash off with plenty of cold water. Lemon-juice well rubbed into kitchen tables quickly removes all grasse.

Knite aleaning may be facilitated by taking a strip of old carpet, tack it tightly on the knife-board, and sprinkle with bath brick. This will produce a good polish without scraping the knife.

Mean may be kept good in summer by lightly covering it with bran, and hanging it in some dry calar.

Mean sakes should always be put in an firty place, and if possible where a draught may blow through. It should be emptied daily in summer and wiped with a

should be emptied daily in summer and wiped with a clean wet cloth. Keep a dish of charcoal standing

Pails of all kinds should be cleaned and put a way directly after use. If this should no occasion be impossible, fift the pan immediately with hot water and soda, to preven! the grease getting hard and caked. Saucepans should always be washed inside, and out. and in these days, when one rarely meets with an open fire, it is easily done, A pan that is rusty, or even a little dirty, will prevent soup which is cooked in it from being clear. Every cook should be provided with a saucepan brush, and armed with this, and a little soap and soda, she will scour the insides and outsides of her

pans till they shine like new.

Poultry, Preparing for Table.—If obliged to dress poultry immediately after killing, steep in boiling water, and feather while in the water. This method will make it as tender as if killed some days previously. To prevent drying, and to improve the bird, tie a slice of raw bacon over the breast when roasting. By rubbing the breast of a fowl with lemon juice before boiling, you will be able to send it to table with a snow-white appearance.

table with a snow-white appearance.

Spoons of wood are far superior to metal ones for cooking work. Fruit which is being stewed or cooked in, any way should never be stirred with an ordinary metal spoon.

Stains on baking dishes can be easily removed by dipping a piece of fannel in whiting, and rubbing it well into the stain.

Tea and Coffee should be kept in glass jars rather than tin canisters.

than tin canister

Wine, to Cool .- To cool a bottle of wine without ice, wrap a fiannel wetted in cold running tap-wates round the bottle.

## COOKERY HINTS.

crumbs and baked

crumos and based.

Baba.—A peculiar sweet French yeast-cake.

Béchamel.—A rich, white sauce, made with stock.

Bisqué.—A pure made of shell-fish.

Blanch. To.—To place any article on the fire till to bolls, then plunge it in cold water; to whiten poultry, vegetables, etc. To remove the skin by immersing in boiling water.

bolling water.

Bouchées.—Very tiny patties or cakes, as the name indicates, mouthfuls.

Boullion.—A clear soup, stronger than broth, yet not so strong as consommet, which is "reduced" soup.

Braise.—Meat cooked in a closely-covered stewpan, so that it retains its own favour, and those of the vegetables and flavourings put with it.

Bricohe.—A very rich, unsweetened French cake, made with yeast.

Cannelon.—Stuffed, rolled-up meat.

Consommé.—Clear soup or bouillon boiled down till very rich, f.e. consumed.

till very rich, f.e., consumed.

Groquettes.—A very savoury mince of fish or fow, made with sauce into shapes, and fried.

Grountades.—Fried forms of bread to serve minced or ther meats upon.

Entrée - A small dish, usually served between the courses at dinner. Fondant.—Sugar boiled and beaten to a creamy

paste. paste.
Fondue.—A light preparation of melted cheese.
Marinade.—A liquor of spices, vinegar, etc., in which fish or meats are steeped before cooking.
Matelote.—A rich fish stew with wine.
Mayonnaise.—A cold sauce or dressing, chiefly for serving with salads.

Meringue,-Sugar and white of egg beaten to

-Cold meats warmed in various ways, and dished in circular form.

Pures.—This name is given to very thick soups, the ingredients for thickening which have been rubbed through a sleve.

**Rémoulade.**—A salad dressing, differing from mayonnaise in that the eggs are hard boiled and rubbed in a mortar with mustard, herbs, etc.

Bouffie—A very light pudding, steamed or baked.

Trifle.—A sweet made from sponge cakes, macaroons, etc., with jams, wine, or liqueurs.

Yol-au-vent.—Mincemeat, in light puff paste, cut oval or round.

Vol-au went.—Mincemeat, in light puff paste, cut oval or round.

Cooking by Gas.—Joints cooked in a gas stove sometimes have a gassy taste because they are placed in the oven before the stove is lighted. You should always see that your oven has fully ten minutes to get warm, when the gas is only half-turned on. Open the door for thefirst few minutes that the air within the oven may free itself of gas. When this has been done, close the door, turn the gas full on. These remarks also apply to bread.

The Stock-pot.—This is an important thing in cookery. Put whatever bones you may have into a pan kept for the purpose (previously breaking them in pieces), boil them for three or four hours at least, then pour off the liquor into the stock-pot, and add to each gallon the meat off a knuckle of veal, a pound of lean beef, and a pound of the lean of a gammen of bacon, all sliced, with two or three scraped carrots, two onions, two turnips, two heads of celery sliced, and two quarts of water. Stew the meat quite tender, but do not let tourn. When thus prepared it will serve either for soup, or brown or white gravy.

Claritying Dripping.—To clarify beef or mutton dripping, put into a basin, pour over it boiling water, and keep string the whole to wash away the impurities. Let it stand to cool, when the water and dirty sediment will settle at the bottom of the basin

Owan, Tasting the Heat of.—Place a piece or white paper in the oven, and if the heat be too great it will blacken or burn; if it only turns a light brown colour it is fit for pastry. If the paper turns a dark yellow shade, the oven will be right for baking the heavier kinds of cake; if a light yellow, then it is fit for sponge cakes and the lighter kinds of biscuits.

A teacupful of flour equals four ounces.

Tomatoes, to Silce.—Put them for a few

A teacupful of flour equals four ounces.
Tomatoes, to Bloce. – Put them for a few
minutes into bolling water; they will then peel easily
and cut without waste, and in no way spoil the flavour.
Bestroot, to Feel. – When the beetroot is
thoroughly cooked, take it out of the saucepan and
hold it in your hand with a clean cloth; then, with the
other hand, gently draw the skin off. This leaves the
beet smooth without waste. It must be done when hot.
Onions, Peeling.—To remove the smell of onlone,
rub the hands after peeling them on a stick of celery,
and the odour will be entirely removed.
Candied Peel should always be placed in the
oven before cutting up.

oven before cutting up. 

Raigins will stone quite readily if warmed before stoning them.

stoning them.

Currants and Raisins.—To clean raisins and currants, roll in flour, and then pick off all large stalks. If currants are washed, they must be dried before being added to cakes.

Taploosa, Cooking.—Before cooking taploca for a pudding, soak it in water until it is swollen, and allow a pint-and-a-half of milk to every ounce of taploca.—weighed before soaking.

Dishing and Garnishing.—Dishes which are served hot do not permut of an nuch garnishing as cold ones. Proper attention should always be given to the cutting and trimming of meats, to the moulding of croquettes, meat-balls, or anything served in pieces, and also to the dishing of the same. The garnishes for meat dishes are so various that it might be said their only limit is the resourcefulness of the cook.

Flour, Browned.—Have always handy a jar of

their only limit is the resourcefulness of the cook.

Flour, Browned.—Have always handy a jar of browned flour for colouring gravies, soups, etc. To prepare this, place a quart of flour at a time in a dripping-tin, in a moderate oven, and stir it about at intervals till brown. Keep the jar well covered.

Cream, Bubatticute for.—Stir a dessertspoonful of flour into a pint of new milk, taking gare that it is perfectly smooth. Simmer it to take off the raw taste of the flour. Beat well the voke of an ear, and stir it

perfectly smooth. Simmer it to take off the raw taste of the four. Beat woll the yoke of an egg, and stir it gently mot the milk. Pass all through a fine sleve.

Butter, to Cut Clean.—When cutting butter from a large roll in very cold weather, first dip the knife into boiling or very hot water, when all trouble of breaking the butter will be obviated.

Cake, Teaching a.—A sure way of telling if a cake is well cooked is to lightly insert a skewer in the centre, and if clean when withdrawn the cake is perfectly cooked. To find out whether there is any slum in rates for loves heat a first on the true it is

centre, and if clean when withdrawn the cake is serfectly cooked. To find out whether there is any alum in cakes lor loaves, heat a knife and thrust it in. Any alum will partially cover the knife.

Chop, Cooking a.—Pour boiling water over the chop, when it has been placed in a colander, in order to close up the tissues and enable the chop to retain the nutritive juices. Grill over a clear, hot fire, and turn carefully so as not to prick it in any way.

Boiling.—When boiling meat, keep the ild of the stewpan down tightly. When boiling dumplings, keep the ild of the saucepan raised. If this is done, the dumplings will never be ineavy; that is, if the water is, kept boiling the whole time. Boiled puddings should be plunged at once into boiling water, and should boil fast, not simmer.

Broiling.—To broil meat or fish, the fire should be critically in the bed done.

Broiling.—To broil meat or fish, the fire should be quite clear. Set he gridiron over the fire to get hot, while a lump of butter or nice sweet dripping is melting on a plate in front of the fire. Well wash the fish

or meat, whichever you wish to broil, under the tap.
Never put any but salt fish to soak. Dry the fish on a clean cloth, lightly sprinkle with salt and popper.
Oarving Fish.—The implements generally used for carving boiled or braised fish are either a silver fish-

slice, spoon, or fork. If a long-shaped fish is to be carved, such as bass, salmon, &c., trace first a line along the backbone, beginning at the head and finishing at the tail; then cut the fish into slices, and lay each piece on a separate plate.

Aspie Jelly—Simple. Put ingo a pan 2 oz. of oest leaf gelatine with a quart of hot water, a dessert-spoonful of sait, the juice of a lemon, r bay leaf, a teaspoonful of good brown vinegar, a tablespoonful of tarragon vinegar, a small onion sliced, so mixed peppercoms and allapice, and the whites and shells of a eggz. Let this all boil up, and then run it through a jelly-bag rung out in hot water.

Bacon Kromeskies.—Cut some very thin slices of streaky bacon about one and a half inches broad by two inches long. Lay each slice fait, and place a little nicely-seasoned minced meat on each. Roll up the bacon tightly, taking care that the meat does not escape, and put aside in a cool place. Prepare the flying batter and let it stand for two hours. To serve, dip each roll into the batter, plunge into deep boiling fat and fry a golden colour. Garnish with parsley.

Bacon, Macaroni and Tomatoes.—Take halfs pound of bacon, half a pound of macaroni, six tomatoes, grated cheese, butter, pepper and sait, boil the macaroni in salted water till tender, then drain and cut it in short lengths; fill a buttered baking it is the stantact leaves of macaroni and trousters.

drain and cut it in short lengths; fill a buttered baking

drain and cut it in short lengths; fill a buttered baking dish with alternate layers of macaroni and tomatoes, flavouring each layer with grated cheese, pepper and salt, and putting small pieces of butter between them; cover the top with fine breadcrumbs and bacon cut in dice; bake in a moderate oven and serve hot.

Bacon and Tomatoes.—Peel a pound of ripe tomatoes, and cut them into a stewpan with one-third their bulk in fine breadcrumbs, a seasoning of salt, pepper, lemon juice and minced parsley, three ounces of fresh butter, and a teasphonful of very finely chopped onion, and stew over a gentle fire from fifteen to twenty minutes; then have ready some damtily fried pieces of stale bread, half inch thick and two and a half inches in damneter, which have been fried a colden brown in of stale bread, half such thick and two and a half inches in diameter, which have been fried a golden brown in boiling christed fat, and well drained in order to render them quite crisp and dry-and arrange these neatly on a very hot dish; pour the stewed tomatoes over these, garnish round the edge with small slices of prime bacon, cut thin, and toasted or fried, and dish

up very hot.

Beef, Choosing. (See "Kitchen Notes,"

Beet, Choosing. (See "Ritchen Rotes," Introductory.)

Beet, a la Mode.—Melt two ounces of beef dripping in a stewpan; fasten two pounds of steak in a nice shape, flour it and fry it a nice brown on both sides. Pour in good stock to barely cover the beef; add a dozen or so of mushrooms, peeled and cut in halves. Simmer gently for three hours, when the meat will be quite tender. Serve on a hot dish, with the mushrooms round it. the mushrooms round it.

the mushrooms round it.

Beef, Bolled...-Sait the aitch-bone joint or brisket for about four days. Cover with water in a Saucepan and boil. Quick boiling will make it tough. Remove all scum, and add, to boil until soft, some turnips and carrots. Also dumplings, if inked.

Beef, Belled. Round of...-Take about eight to ten pounds of the silverside of beef, and sait for nine or ten days. Slewer up into a round, bring to the boll with sufficient water to cover and then very slowly.

or ten days. Skewer up into a round, bring to the boil with sufficient water to cover, and then very slowly simmer until tender.

simmer until tender.

Bed, Brisket of (Baked).—Thiv joint is very appetising, stuffed and beised, and very cheap too, which is an object in most households. Take out the bones, and fill the holes up with good stuffing, of whatever sort is liked best. The stuffing must be well seasoned. Dredge the pleces of meat well over with flour, and pour over it about half a pint of broth or stock; bake it for three hours. Skim all the fat off the gravy, and serve.

the gravy, and serve.

Beef, Brisket of (Boiled).—Lay the brisket in brine, turn every day, and rub into it brown sugar

and pickling spice. In about a week the beef is ready, Boil very slowly until the meat is quite tender, remove the bones and gristle, and press. Glaze and garnish.

Beef Calte.—The remains of cold roast beef; to each pound of cold beef allow a quarter pound of ham or bacon and pepper and salt, a few herbs, one are two eggs. Mince the meat and mix all the other ingredients, and bind with one egg, or two if required. Make into small square cakes, fry in hot dripping, and serve with home gray noured over

small square cakes. By in hot dripping, and serve with brown gravy poured over.

Beef, Fillet of.—Put this in a pan to pickle for twelve hours. Cores with bacon to lard it, and add a aliced onlon, parsley and seasoning. Roast for one and a quarter hours for four pounds of beef. Glaze, and pour Spanish sauce around.

Beef, Roast.—Allow one-quarter hour for each pound of meat, and one-quarter hour over. Place two metal skowers through the middle of the joint, which can be easily withdrawn before serving. The metal conducts the heat to the middle, and ensures it being cooked right through. If you prefer underdone meat, do not use skewers through the middle. Garnish with scraped horseradish. scraped horseradish

scraped horseradis.

Beaf, Roast Ribs of.—Dredge the joint with s
little flour, and place before a clear fire or in a hot
oven. Baste often, and allow two and a half hours ten pounds of beef. When cooked pour the dripping
from the pan, add a little boiling water with a sprinkle
of salt, and boil up in the pan, then pour this gravy
over the Joint. Serve this with Yoi khire pudding and
horseradish sauce. When the ribs of beef are boned
and rolled, a little more time should be allowed, such
as three hours to ten rounds, as the loint is more as three hours to ten pounds, as the joint is more

Beaf, Spiced (Cold).-Rub coarse sugar into

Beaf, Spiced (Gold).—Rub coarse sugar inte thick fiank or rump beef, and leave for twelve hours. Then rub in one ounce of pounded salipetre, and : quarter of a pound of pounded allspice. Leave this for another twelve hours, then rub in one pound of sali. Dry the joint, put in a pan with a little water, and bake very moderately for four hours. Turn a few times while cooking, and cover if getting too gisp.

Beef Steak and Guoumber.—Dip a rump steal in salad oil and broil over a clear fire until done; place on a dish and serve with cucumber, after peeling it, into spices about three inches long; cut each piece hird quarters, put in a stewpan with a dessertspoonful of butter, four spring onloss finely sliced, pepper and salt, put the hd on and stew quickly until tender, about ten minutes, tossing the stewpan frequently to prevent iruning, then add a teaspoonful of flour mixed with two tablespoonfuls of milk, or, preferably, cream, with two tablespoonfuls of milk, or, preferably, cream, and a lump of butter the size of a walnut. Place round the steak and serve.

the steak and serve.

Beaf Steak, Stuffed (Cold),—Make a stuffing with three ounces of bread crumbs, thyme, chopped onions, suet, salt, pepper, and bind with a beaten egg. Spread this over the stoak, roll up, and tie together with string. Tie in a cloth, put it into warm water with a little salt in it, and boil slowly until tender. Serve cold, cut into thin slices, with some salad gamishing.

#### BEYERAGES, SOME HOMELY.

BEYERAGES, SOMP HOMELY.

Beet and Apple Cider.—One bushed of sugar beets mixed with nine bushes of apples makes a cider richer and of superior flavour to that made from apples. Dandelion Wine.—Gather two quarts of dandelion petals—that is, the yellow petals of the flower, pour over them half a gallon of water, warm, but that has been bolled; stir, and cover with a flannel cloth, and leave for three days stirring now and again. Strain it then, put the water into a pan and boil for half an hour with the rind of a lemon and an orange among it, and a little ginger. Then slice the lemon into it, and add one and a-hulf pounds of lump sugar; when cool put in a bit of bread with a quarter of an ounce of yeast in it, and leave it for a day or two; then put it in a jar and leave it for a month or two.

ti for a month or two.

Ginger Wine.—To make ten gallons of ginger wine, take eight gallons and five pints of water, twenty-

four pounds of loaf sugar, thirteen and a-half ounces of ginger, four pounds of raisins, eight Seville oranges, ax tablespoonible of yeast. Bruise the ginger, and boil the ingredients haif an hour; left it stand till nearly cold, then put it into the cask with the juice of the oranges, raisins, and yeast chopped small. Let it stand six or seven days, put in haif an ounce of isinglass and a quartern of the best brandy. Burg up the cask and a quartern of the best brandy. Burg up the cask and it it stand three months, then bottle off.

Grean Gooseberry Wine.—To make nine gallons of wine, take haif a bushel of fruit crushed or pounded, twenty-eight pounds of loaf sugar, a quartern of brandy, and haif an ounce of isinglass. When the full is the sugar. When dissolved, put it in your cask, it will farment very much. In three days add your brandy and isinglass and bung it up. Bottle it in March, and in three months will be very like champagne. It will keep good for years.

March, and in three months it will be very like champagne. It will keep good for years.

Hop Bear,—Boil five ounces of hops slowly in nine gallons of water for about three-quarters of an hour. Strain over three pounds of brown sugar in a large pan, add a little bruised ginger, and when luke-warm add about three or four tablespoonfuls of yeast, and let it ferment. If this is to be kept, add a little brandy, for it is not easy to keep any fluid containing sugar without it. After twenty-four hours, strain off and bottle, the down the corks tightly, or draw from a stone or wooden cask as required for use.

Lamon Byrup.—Put in a basin a pound and a-half of loaf sugar, one ounce of citric acid, with the rind and juice of two lemons. Pour over all one quart of boiling water, and let it stand till cold, sitring occasionally. Strain and bottle. A winer assful of this to a tumblerful of water.

Monally. Strain and a tumblerful of water.

#### BISCUITS.

Riscuits, American Breakfast.—One pound of flour, two teaspoonfuls of baking powder, quarter pound of butter, a luttle salt. Well rub butter into flour after sifting in baking powder, then make into a nice

after sifting in baking powder, then make into a nice sort dough with mills; stale milk is really best. Roll out to half an inch in thickness, cut out in rounds with a pastry cutter, bake in a very hot oven. When wanted for use cut open and butter. These are very good.

Biscults, Glean-out.—Take half a pound of descrated cocoanit, quarter of a pound of casters ugar, and a tablespoonful of flour. Put them in a bowl, and mix them well together. Beat up the whites of three eggs into a stiff froth, and very lightly add it to the mixture. Drop a spoonful at a time on greased paper or tin, and bake in a moderate oven until pale brown.

Biscults, Gracknel.—Take a quart of the best

maxture. Drop a spoontul at a time on greased paper or tin, and bake in a moderate oven until pale brown.

Bisoults, "Iraokinel.—Take a quart of the best four, and four yolks of eggs well beaten, in which has been mixed a little nutmeg, a small teacupful of caster sugar, and half a gill of orange or nose-water; pour this labe the flour and make a stiff paste. Then roll it out, and work into it by slow degrees a pound of butter, and when thoroughly united roll out to a proper thickness, which is about the third part of an inch, and cut into shapes; throw them into boiling water and let them continue to boil till they swim on the top. They must then be taken out and plunged in cold water to harden, after which they are to be slowly dried; wash the tops with well-beaten whites of eggs, and bake on the plates in an oven sufficiently brisk to make them crisp, but by no means too dark a brown.

Bisoulties, Gingar.—Mix a quarter of a pound of butter to a half pound of sugar, add one pound of butter to a half pound of sugar, add one pound of sour with ground ginger to taste and two custilis of water. Roll this out thin, stamp out, and Ekke on greased flat tins. When the biscuits are done, brush head over with beaten egg, and place on sleve till cold. Keep is alt-dight ins.

Keep in air-light tins.

Eiseuits, Flain.—Mix one pound of flour and treaty ounces of butter together, a plach of salt, and scough water to work into a smooth dough or paste. Roll out thin, cut into ingers, and bake in 3

Blancmange, Almond.—Take four tablespoon-fals of cornflour, a quart of milk, and sugar to taste. Mix the cornflour with cold milk to a smooth paste,

then make the remainder of the milk hot, and pour it gradually over the corniour. Return to the saucepan and boil gently for eight minutes, string all the time. Sweeten to taste, and flavour delicately with almonds. Sweeten to taste, and flavour delicately with almonds. Have ready two ounces of blanched and chopped almonds, stir them in the blancmange, and then pour into a wet mould. Turn out when cold.

Blancmange, Chocolate.—Grate an ounce of chocolate, and mix it with cold milk, then pour over it a quart of boiling milk. Return all to the saucepan and boil until it tastes cooked. Mix four tablespoonfuls of cornifower smoothly with cold milk; now pour over it, stirring all the time, the milk and the chocolate. Sweeten and return to the saucepan, boiling it for four or five minutes. Remove from the fire, add half a teaspoonful of essence of vanilla, and then pour into a wet mould.

wet mould.

wet mould.

Bread, to make.—Dissolve a halfpennyworth of fresh German yeast in a breakfastcup of lukewarm water. Half a teaspoonful of brown sugar mixed with the yeast will help it to froth. Mix in a dry, warm bread-pan three pounds of good four, with three teaspoonfuls of sait, and one and a half pints of water. Then make a hole in the centre, and pour in the dissolved yeast, stirring it with a spoon. Fut the pan, covered to, keep off draught, near the fire to rise, leaving it about an hour and a half until the centre bubbles up. Knead lightly and well. Cut the dough with a knife, shape a little with floured hands, and put in the greased tins. Fut the tins near the fire, covered with a light cloth, until the dough has risen to the top. This will take from one and a half to two hours. Then bake in a hot oven, Small loaves take about an hour,

hour.

Bread, Brown, to make.—Take seven pounds
of whole meal, put it into a pan and make holes in the
centre. Mux two ounces and a half of yeast with one
quart of warm water, pour this into the pan, and with
a spoon work enough flour over and set to rise for one
hour near the fire. After this time the dough will have
risen, and the meal will be cracked. Then work in
more water and a dessertspoonful of salt till you have
kneaded all into a light dough, and all the paste has
worked from your hands. Set this to rise for an hour,
covering with a cloth, Make into loaves, bake one
hour.

#### BUNG.

Buns, Aimond.—Put half a pound of ground almonds in a basin with a quarter of a pound of brown sugar, and a teaspoonful of ground cinnamon. Mix these well together, then break in one whole egg, stir this well in; if not quite moist enough, break in another small egg, but it must be quite imm, not too moist. Put tablespoonfuls of the almond paste on well-buttered paper, not too close together, and bake in a moderately hot oven, taking care the buns do not burn, nor get too brown. too brown.

Buns, Cherry.—Sift together three-quarters of a pound of flour and one pound of ground rice; rub in a quarter of a pound of butter. Add three ounces of dried cherries cut in four, four ounces of caster sugar, two teaspoonfuls of baking powder, two eggs, and a little milk. Bake in small, well-greased tins for about twenty minutes, and in the centre of each bun place a cherr

cherry.

Buns, Plain Doughnuts.—Beat into a cupful of milk with a pinch of carbonate of soda, one egg, a cupful of sugar, a very little flour, and stri until smooth. Add a tablespoonful of melted lard, a little salt, and enough flour to make a stiff dough. Shape the doughnuts, and drop into almost bolling fat.

Buns, Maids of Honour.—Boil gently for a quarter of an hour helf a pint of milk, with two tablespoonfuls of fine breadcrumbs, two ounces of butter, and a little lemon peel and sugar; then add three well-beaten eggs, and sir till the mixture becomes quite thick. Strain through a sleve, line a dish or several partry pans with puff paste, fill it half full of the mixture and bake.

Buns, Raisin.—Take one cup of sugar, one cup

Buns, Raisin.—Take one cup of sugar, one cup of sourmilk, one cup of raisins, small cup of butter, one teaspoonful of sods. Flour enough to mix stiff.

#### CERES.

Cake, Aimond.—Put half a pound of ground almonds in a basin with half a teacupful of flour, a teacupful of sugar, the grated rind of a lemon, with one whole egg, the juice of the lemon poured on the egg. Mix this egg and lemon well into the cake egg. Mix this egg and lemon well into the cake mixture; if not moist enough, use part of another well-beaten egg. The cakes must be merely moist enough to make into round balls with well-doured hands. Fut the cakes on a well-buttered cake-tin; bake in a cool oven until crips and brown.

Gake, Beanana.—Put in a saucepan four table-spoonfuls of sugar, four of sherry, and the same amount of orange juice; place over the fire, peel and slice thinly six bananas and add to the liquid. Cook them five minutes. Make a sponge or cup cake and bake it in a biscuit in. When the cake is partly cool, split it and spread half of the prepared bananas over the lower part; place the top of the cake on the fruit, and put the remaining bananas over the top.

sower parr; place the top of the cake on the fruit, and put the remaining bananas over the top.

Cake, Boston.—Rub half a pound of butter into one pound of flour with the hands, then mix well with a heaped dessertspoonful of baking-powder, half a pound of brown sugar, and six ounces of grated coconut. Break in two whole eggs, and with a little sour milk or buttermilk mix all together. It must not be too stiff or too soft. Put it in a well-buttered cake-tin; bekels to et too het a ware one hours and a guern and bake in not too hot an oven one hour and a quarter.

Dake in not too te an oven one hour and a quarter. Cake, Bread.—Separate from the dough when making common white bread as much as is sufficient for a quartern loat. Knead well into this two ounces of moist sugar, the same quantity of butter, and half a pound of currants; warm the butter in a teacupful of good milk. When thoroughly kneaded, make the dough into the form of a cake and bake in a tin.

Cough into the torm of a case and bake in a tin.

Cake, Carraway.—Put half a pound of flour in a basin, and with the hands rub in four ounces of sweet dripping or butter, a teacupful of brown sugar, and half a teacupful of carraway-seeds, a heaped teaspoonful of baking-powder, and two whole eggs. Mix well together with a little sour milk to a fine dough; well butter a cake-tin or baking sheet, put in the cake mixture, and bake in a hot oven three-marters of a hour. quarters of an hour.

Cake, Currant. - Rub four ounces of butter

in the cake mixture, and bake in a hot oven three-quarters of an hour.

Cake, Gurrant,—Rub four ounces of butter lightly into two pounds of flour, add half a pound of sugar, one pound of currants, half ounce of carraway seeds, and a quarter ounce of alispite. Warm a pint of milk, stir in three tablespoonfuls of fresh yeast, and make the mixture into a light dough with this liquid. Knead well, and put the dough ir, this lined with buttered paper. Leave in a warm place to rise for an hour or more, then bake in a well-heated oven.

Cake, Rich Fruit.—One pound of seedless raisins, one pound of currants, half a pound of finely siliced citron, half a pound of butter, quarter pint of good brandy, half a pint of molasses, half a pound of norwn sugar, one teaspoonful of grated nutneg, one teaspoonful of grated nutneg, one teaspoonful of grated nutneg, one teaspoonful of grated nutneg, one teaspoonful of grated nutneg, one teaspoonful of grated nutneg, one teaspoonful of baking soda. Dredge the fruit with flour, stir butter and sugar with a wooden spoon, and add the oggs one at a time, stirring a few with one teaspoonful of baking soda. Dredge the fruit with flour, stir butter and sugar with a wooden spoon, and add the oggs one at a time, stirring a few winnutes between each addition. Next add the molasses, brandy, spice, and sifted flour, and lastly stir in the fruit. Butter one large round cake-tin and line it with brown paper, fill in the mixture, and bake in a slow oven from three to four hours. Great care must be taken that the oven is just right.

Cake, Geround Bloe.—Two tablespoonfuls of ground rice, four ounces of flour, the same of butter, two ounces of caster sugar, two eggs, and a teaspoonful of baking powder, with a few drops of almond or lemon flavouring. Beat the butter and sugar to the substance of caster sugar, one pound of sweet ainonds, the whites of four eggs and the rose-water. Blanch the ainonds and pound them to a pasta with a little rose-water. Beat the whites of four eggs to a stiff froth. Mix the

Spread over a very rich cake, and put into

smooth. Spread over a very rich cake, and put into the oven to dry.

Gakea, Johnny,—Beat three whole eggs till light, then add to them one pint of milk (or butbersnik if at hand) and one pint of malze meal, beating them all well in. Dissolve a teaspoonful of bicarbonate of soda in two tablespoonfuls of bolling water, and add this to the above mixture with a teaspoonful of salt and two tablespoonfuls of liquefied butter. When thoroughly mixed pour it all into a well buttered shallow baking dish, and bake for thirty minutes in a quick own.

Gake, Lennon.—Take three-quarters of a posmof dried and sifted flour, mix with a teaspoonful of baking-powder, a plnch of salt. Work a quarter of a pound of butter to a cream (or two ounces of butter and two ounces of clarified dripping), with the same quantity of caster sugar, and one egg. Grate the rind of one lemon, and add the flour; gradually sift in the dry ingredients with the butter, etc., and beat till all properly mixed. If the cake mixture is a little dry, squeeze into it some of the lemon juice, beat again, pour into a greased tin and bake.

Gake, Load.—One and a half cupfuls of sweet milk, one cupful of yeast. Stir together at night, adding flour to make a thick batter. In the morning add one cupful of sugar, one egg, and hulf a lemon; nutneg, make, citron, raisins, and a tablespoonful of water. This makes two loaves.

Gake, Bullik.—Iwo pounds of flour, one ounce of yeard, a teacupin of milk, two eggs, half a teaspoonful of salt. Mix the sugar and flour top-greath of the troub of salt. Mix the sugar and flour top-greather, then rub in the butter, and the salt, discove the yeast in the warm place for about an hour and a half. Flour the pastry that the sugar, and leave the rolls to rise again for an hour near the fire, bake for twenty minutes in a quick owen, brush of small portions, and form them into flat cakes, place on butter, and the rub of sugar, one ounce of cakes, Platace, and serve hor flour, six ounces of butter, and the rub of the salt, discove the yeast

until both are stirred in; flavour with leunon.

Cake, Plum (small).—Rub three ounces of butter into a pound of flour, then beat up the yolks of two eggs, and the white of one; warm a little milk, and mix the flour and butter with them; wash, pick, and dry a pound of currants, and stir them well m, then form into small cakes. Bake on a tin in a hot oven.

Cake, Quean.—Take the weight of two eggs is sugar, flour, and butter to a cream, then work in the yolks of two eggs, sift in the flour, add one ounce of currants, and, at the last, the stiffly whipped whites of the two eggs. Bake in buttered tins for ten minutes.

Cake, Rios.—One pound of flour, half a pound of

butiered tins for ten minutes.

Gake, Rica.—One pound of flour, half a pound of rice flour, half a pound of sugar, half a pound of butter, four eggs, two teaspoonfuls of baking-powder, one teaspoonful essence of vanilla, salt, and milk. Bent the butter to a cream, add the yolks of the eggs, and the sugar; beat very lightly. Then add the flour, after being well dried before the fire or in the over, baking-powder, pinch of salt, vanilla, and sufficient milk to make a nice thick batter. Beat up the white of the eggs to a stiff froth, and add them last. Mix all very lightly, and bake for two hours in a moderate even.

Onke, Seed,—A quartern of dough, half a pound of butter, three-quarters of a pound of sugar, one ounce of carraway seeds, and three eggs. Cream the butter, and kneed it in with the dough, and the sugar,

Cake, Sponge.—Five eggs, the weight of four eggs in caster sugar, and the weight of three eggs in caster sugar, and the weight of three eggs in caster sugar and peel of half a lemon. Mix the eggs with the sugar and peel, add the lemon juice, whisk for three-quarters of an hour, then stir in the flour by degrees, whisking all the time, and pour into time which have been previously buttered and sugared, and put at once into a moderately hot oven.

and put at once into a moderately hot oven.

Cake, Bultana.—Pass three-quarters of a pound of dry flour through a sieve, with a heaped teaspoonful of baking powder, and a pinch of salt. Beat togother five ounces of butter with five ounces of caster sugar, a tablespoonful of brandy, in which some mixed spice has been stirred. Into the flour put half a pound of sultanas, and two ounces of clopped peel. Work in three eggs to the butter and sugar, and then the dry ingredients very slowly. Beat the whole for five singues. Put into a tin, and bake steadily

Cake, Tea.—One pound of flour, half a pound of butter, a teaspoonful of salt, and a satespoonful of baking powder. With a little milk or water mix these ingredients to a paste, roll to ut, cut it into rounds the size of the cakes required (small ones are best), and bake them over the fire or on a fast tin in the oven. When raing the cakes should be turned, and allowed to bake to a golden brown. Serve buttered in a covered dish.

#### CHEESE.

Cheese Creams.—Roll out puff paste very thinly, and cut into rounds. Stew two ounces of cream, and the same quantity of grated Parmesan cheese, adding a little salt and cayenne, and place the mixture in little piles on each round of pastry, moisten the edges, put a round on each, making tiny turnovers of thom. Egg these over, roll in breadcrumbs, and fry in boiling

Cheese Patés.—Put two ounces of grated Parmesun cheese into a basin with one ounce of butter, yolks of two eyes, the white of one, and a little salt and cayenne. Fill patry-pans, lined with paste, with the mixture and bake. Sprinkle a little grated cheese over

mixture and bake. Sprinkles little grated cheese over these, and serve hot.

Cheese Rarebit.—Take half a pound of cheese, one ounce of butter, a tablespoonful of ale, a little salt and mustard, some buttered toast. Put the butter in a pan, and when it has melted put in the cheese, sliced, the seasoning, and the ale; and when all are incorporated into a thick cream, pour it over and serve

hot.

Cheese Rawabit without Ale.—Put into a saucepan a tablespoonful of tomato ketchup, a teaspoonful of relists or bottled sauce, and one pound of chopped soft American cheese, and half a gill of water. Stand this ever the fire, stir and beat rapidly until smooth. Pour on to toasted bread, and serve.

Cheese Rashers.—Fry some nice rashers of bacon in thin slices. Take out when cooked, and fry some thin slices of onions in the fat. When done, take out of the pan, and keep hot with the rashers, then fry some slices of good old cheese. Add all together, and serve hot.

fry some slices of good old cheese. Add all together, and serve hot.

Cheese Spaghetti.—Break half a pouncing spaghetti in a pan of salted boiling water, boil until tender, and strain thoroughly. Melt one ounce of butter in a saucepan; stir into it a teaspoonful of flour and one tablespoonful of mustard. Add the spaghetti with a tablespoonful of milk; when hot mix in a quarter of a pound of cheese to taste; boil up, turn into a buttered pie-dish, sprinkle breadcrumbs on top, with a few pieces of butter here and there; brown on the surface, and agree with dirt posts.

and serve with dry toast.

Cheese, Straws.—Take two ounces of Vienna flour, mix in a little pepper and salt, and the merest

pinch of cayenne. Rub in two ounces of butter, then add two ounces of grated Parmesan or some grated cheese of a strong, dry kind. Mix this into a smooth paste with the yolk of an egg and a few drops of lemon junce. Knead the paste and roll it out thin and square. Cut into strips, and bake on a greased tin.

Cheese, Tomatoes and.—Put an ounce of butter into a small stewpan, with a tablespoonful of nuinced onion, and fry it. Before the onion colours, throw in halfa-dozen large tomatoes cut in small pieces, and allow them to cook thoroughly. Butter a fireproof dish, pour in the contents of the stewpan, and cover with a layer of Parmesan or any similar cheese. Bake for ten minutes, and serve very hot.

### CHILDREN, COOKERY FOR.

CHILDREN, COOKERY FOR.

Children, Dumplings for.—Chop finely twopennyworth of fresh beef suet and mix it with halfpound of flour, a large pinch of salt, and sufficient water
to make a large stiff paste. Next chop finely together
the following ingredients:—two ounces of any meat—
beef, mutton, or veal, which may have been left from
the previous day's dinner, a Spanish or large English
noine, a good-sized sprig of parsley, a pinch of sweet
herbs, salt to taste, and a very little pepper; bind with
the yolk of an egg. Next work this mixture thoroughly
into the suet paste, and form into small dumplings.
Boil in the stockpot, which should always be placed at
the side of the stove as soon as the fire has "drawn
up." Serve with a little plain, very free has "drawn
them, beat them up well. Have ready a sile of
buttered toast. Put a small reacupit of milk to warm
with a little salt in it, in an enarvelled saucepan. When
the side of the stove as a soon and the ready a sile of
unith bot, mix the eggs and nilk, and keep stirring it
mixed in here on the factors. Two eggs will be enough
for three little children.
Children, Gingaranaps for.—One cupful of
their treade, one helf-cupful of fresh butter, one tea.

for three little children.

Children, Gingarsnaps for.—One cupful of thick treacle, one half-cupful of fresh butter, one teaspoonful of ginger, one half-teaspoonful of powdered chanamon, one-fourth of a teaspoonful of salt, gone small teaspoonful of baking soda. Flour enough to roll. Work the butter and treacle well together, add soda, and beat again to a foam; sit in salt and spices, then the flour, sifted. Turn out on the bread board, and roll out one-fourth of an linch thick; sprinkle the top with granulated sugar, then grated fresh cocoanut (two tablespoons of each is all that is required) cut out with a round cutter, and buke in a quick oven.

Children, Ellik for.—Should be given boiled, and with or without water, to children, both for tea and breakfast. Coffee and tea, even if weak, are unsuitable for the little ones, and the longer they will take milk atone the better it will be for them. Mils should not, however, he given at dinner, as it is too

take mix atone the better it will be for them. Milk should not, however, he given at dinner, as it is too heavy to be taken as a drink with substantial food. Children, Porridge for.—Porridge should be freely eaten by children. Oatmeal contains lime, which is necessary for hardening children's bones. It should be thoroughly boiled, or it is indigestible.

#### CHRISTMAS COOKERY.

Christmas Cake.—One pound of butter, one pound of caster sugar, one pound of mixed poel, one pound and a half of four, one pound of dried cherries, eight ounces of almonds, half a pint of brandy, ten eggs, one teaspoonful of salt, and one pound of sultanas. Cream the butter, add the sugar and salt, then the eggs one at a time, beating well for four or five minutes with the hand after adding each egg. Mix in the chopped cherries, almonds, picked sultanas, and brandy, and last, stir in the flour. Put the mixture in a cake-tim lined with three folds of buttered paper, and bake from three to four hours in a moderate over.

Christmas, Minoe Pless for.—Mix one pound

from three to four nours in a moderate oven. Christmas, Mince Pies for.—Mix one pound each of raisins, currants, minced peel, suet, apples, and add the juice of three lemons, sugar to taste, a little nutmer, and a little marmalade. All the ingredients should be minced or chopped together.

Christmas Plum Padding.—A pound and a

half of raisins, a pound and a half of currants, a pound and a half of moist sugar, a pound and a half of suet, one pound of breadcrumbs, one pound of flour, six ounces of candied peel, one nutmeg, one sunce of mixed spice, the rind of a lemon, two wineglassfuls of brandy, ten eggs, and a quarter of a pint of good old ale. Chop the suet, stone the raisins, wash and dry the currants, cut the candied peel into thin slices, then mix all the dry ingredients together. Beat the egg (whites and yolks together) and strain them into the pudding; stir in the brandy and ale. Grease one large, or three or four small pudding-basins, and fill with the mixture; cover with a stout greased and floured pudding cloth, and boil for from six to seven hours. Christmas Pudding, another way,—one

pudding cloth, and boil for from six to seven hours.

Christman Fudding, another way.—One pound of raisins stoned and cut, one pound of currants, one pound of suitanas, one pound of foot sugar, one pound of suet, three-quarters of a pound of mixed peal (chopped finely), one pound of breadcrumbs, quarter pound of sweet almonds (chopped), half pound of golden syrup (soften with a cup of warm milk or more if needed), two lemons (rind and juice), eight eggs (beat well), one carrot (scraped), two wine-glassfuls of rum (can be omitted if not approved). Be sure fruit is well dried after washing. Teaspoonful each of salt, nutmeg, and spice, about breakfastcupful of flour. Mix thoroughly together, and boil twelve hours. This will make three convenient sized puddings. sized puddings.

#### COLD MEAT COOKERY.

COLARIAN. TO USE AT COURTERY.

Cold Chicken, To USE ATE. Steep the remains of cold boiled chicken in oil, pepper and salt. Flavour halfa plut of milk with a little carrot, turnip, onlon, blade of mace, few peppercorns, mixed herbs, and half an ounce of isinglass or gelatine. Boil well, and then strain away the vegetables, etc. Add butter and thicken, let it boil for five inmutes, add a gill of cream, and boil again, stirring well; season with pepper and salt. Pour this sauce on the meat, leave to cool and ornament with bestroot on the top, surround with salad and cucumber, and serve.

ornament with bestroot on the top, surround with salad and cucumber, and serve.

Gold Meat, Curried.—Cut thin slices of cold roast meat into rather small pieces; slice thinly, and fry an onion in about two tablespoonfuls of butter until nicely brown; then pour in as much good broth as required for the gravy; add a little salt and a tablespoonful of curry powder; let it boil up, and add the beef; sitt constantly for ten minutes; make a wall of boiled rice round dish, and pour the curried meat in the middle. the middle

Cold Meat, Rolls made from.—Take any little pieces of cooked meat, two or three different sorts if you happen to have them, and mince them; season them with pepper and suit, and either herbs or parsley

you happen to have them, and mince them; season them with pepper and sult, and either herbs or parsley alone, or curry powder, according to taste; make a crust with cold boiled potatoes, a little milk, and flour; place little pieces of the seasoned ment inside the crust, which must be cut according to the size you wish; moisten the meat with gravy, water, or milk, roll up in the crust, and bake for half an hour.

Cold Meat, Stawwed.—Take about two pounds of cold meat, beef preferably, and cut it into small square slices. Fry four onions brown, put them in with the meat, add one and a half pints of stock, together with cut up carrot, a teaspoonful of mixed herbs, pepper and salt to taste. Let all gently boll for one and a half hours with the lid on. Colour a rich horown and thicken with flour, boil up and serve with toast and small potatoes.

Cold Meat, Using up,—Cut slices from a cold joint of beef or mutton not more than half an inch thick; break one whole egg on a plate and mix white and yolk together; season with pepper, salt, finely-chopped onion, and a stablespoonful of grated cheese. Mix these, dip in each slice of meat, and put at once in frying pan of boiling dripping Fry for two minutes on each side, and dish them on a mound of mashed potatoes. Serve hot.

#### CONFECTIONERY.

Candy, Lamon.—Take three pounds of preserving sugar, set it over a slow fire with a half-pint of water, and let it boil about thirty minutes; then

dissolve one teaspoonful of gum and add it with caspoonful of vinegar to the sugar. Boll all together till it is brittle, remove from the fire, and fixvour to taste, with lemon juice or essence of lemon. Rub the hands with butter, and pull the mixture till it is assardy white, then stretch it into a long stick and twist it.

Confactsion, A. Mion.—Take and twist it.

Confactsion, A. Mion.—Take not two pounds of granulated white sugar and put it in a clean pan, with water sufficient to melt it, on a clear fire, and stir. Have ready one pound of good raisins or currants, dry and clean picked. When the sugar is meited put the fruit in, put on lid, and steam for five or ten minutes, taking care that it does not burn. Then add gradually one to three ounces of fresh butter if you want it to be very rich. After five minutes take of the fire, and stir the contents of the pan with a stick till it turns thick, then pour out into a buttered th. Leave to cool a little, and season with lemon to taste. Turn out tight canister or glass bottle.

Toffee, To Make.—One pound of brown sugar, two ounces of butter, and a saitsponnful of cream of cartar, bolled for about twenty minutes, or until a piece will crack if placed in cold water. It must not estired during cooking.

Toffee, Almond, To Make.—Boll together one pound of Demerara sugar, two ounces of butter, three tablespoons of milk, and a sait-spoon of cream of turtar, for about twenty minutes. Then drop a small quantity into cold water; if it hardens at once, so that the toffee will snap, it is done. Have read two ounces of ahmonds,

for about twenty minutes. Then drop a small quantity into cold water; if it hardens at once, so that the toffee will snap, it is done. Have ready two ounces of almonds, blanched and cut in shreds, scatter them on greased tin, and pour the hot toffee over.

Toffee, Ewerton.—Take one pound and a half of brown sugar, nune ounces of butter, a teacupiul of water, and one lemon. Boil the sugar, water, butter, and half the rind of the lemon together for about ten and the contract of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the deep second of the dee minutes. Drop a little into cold water, and if it is done enough it will turn hard at once. Draw this off the fire, and stir into it the lemon juice. Then pour it on a

and str into it the lemon juice. Then pour it on a buttered plate to cool.

Turklish Delight.—A pound of loat surar, hair an ounce of gelatine, juice of one lemon, and six drops of cochineal; one teacupful of water. Soak the gelatine in half a teacupful of water for three hours. Boil the sugar for five minutes with the remainder. Pour ever gelatine, and cochineal, and lemon juice, and stir well.

Pour into wetted pie-dish, and cut when cold. Roll in icing sugar.

#### CROQUETTES.

CROQUETTES.

Croquettes, Figh.—Almost any fish, fresh or dried, is suitable. Mix a proportion of one quarter of fish to bread crumbled. Mix with well-beaten eggs, and season with pepper, salt, chopped parsley, and a very small quamity of dried sweet herbs. For salmon croquettes a good way is to make a teacupful of thick melted butter sauce, grate a little nutmeg into it, a teaspoonful of chopped parsley, and a cupful of shredded remains of salmon. Stir it well in the saucepan and put over the fire, when hot take it off and whisk into it the yolk of an egg beaten up with the juice of half a lemon. Spread it on a plate to get cold. When quite cold divide it into tablespoorfuls, dip each lightly is flour, then brush over with a beaten egg, and cover with breadcrumbs. Fry brown in bolling fat.

Croquettes, Lentil.—Wash a plut of lentils, boll them in three pints of water till the lentils are soft. Strain, and run through a sleve; add a minced onlost, pepper and salt, a lump of butter, and a well-beaten egg. Form into bulls, egg and breadcrumb these, fry in hot fat. Drain and serve with curry sauce.

Gurry, Indian.—Rub smoothly together half an ounce of coriander seeds, three chopped onions, a drachm of cayenne pepper, a drachm of ground ginger, and four cloves. Put a good lump of salt butter in a stewpan, and after rubbing a chicken inside and out with the seasoning, put it in the melted butter, and fry it until nicely browned. Turn constantly and squeeze lemon juice over. Serve at once with plainly-boiled rice in a separate dish, and sprinkled with chopped red capsicums.

#### CUSTARDS

Gustard, Eunt Maria's.—Put half a pint of milk into a successan with a little lemon and, and let it stammer gently till favoured. Sweeten to taste, and let it cool, taking out the lemon. Whish three eggs lightly, and add to the milk. Line a ple-dish with a good short crust-pour in the custard, grate a little milk of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of

#### EGGS. (See also Omelattes.)

Edds, Boiling.-Eggs are far more nourishing if, instead of boiling over the fire, they are placed in a basin with boiling water over them, and allowed to stand for five minutes.

But a Boiling Hard.—An egg may be boiled hard in five minutes. But it is a curious fact that if an

egg be boiled steadily for an hour it becomes mealy, and in this state is much pleasanter to eat than one boiled for a shorter time.

Bags, Buttered (with Mushrooms) .- Put two ounces of fresh butter into a stewpan, break over it four very fresh eggs, and three tablespoonfuls of chopped mushrooms, half a teaspoonful of salt, one altispoonful of ground white pepper. Stir this mixture over a clear free with a wooden spoon until it is of a thickish consistency, and serve very hot, poured over hot well-buttemed toast.

bot well-butteard toast.

Bass, Curried.—Slice thinly an onlon, fry brown in two tablespoonfuls of butter, add a tablespoonful of curry powder, one pint of good broth, and a luttle salt; led it cook until the onlons are tender; blicken one-fourth pint of cream with a little comflour, and stir into the other ingredients; let it summer a few muntes, then add twelve hard-boiled eggs cut into halves, warm through, and arrange the eggs upon a platter with the

through, and arrange the eggs who a party poured over them.

Eggs, Ponched April of salt, as many eggs as are wanted. Put the vinegar and salt into the water, wanted. Put the vinegar and salt into the water, and the put the vinegar and salt into the water. are wanted. The the vinegar and sair into the water, let it boil, then break the eggs very carefully into it, and boil gently for three minutes until they are set; when cooked take them out with a slice, let them drain, and serve on buttered toast.

drain, and serve on buttered toast.

Eggs, Posched, on Anchovy Toast—Posch
the eggs very carefully, and when cooked and nearly
rimmed round the edges, place each one upon a hot
buttered toast, previously spread with a thin layer of
prepared anchovies. Butter, sprinkle the surface very
ghtly with minced parsley, and serve immediately.

Eggs, Posched, writh Tomato Bauce—
Place a pound of sliced tonatoes in a stevpan, add a
slice of enion, a bay leaf, and some whole pepper.
Cover, simmer gently for five minutes, strain, and pass
all the pulp through a sleve. Return the pulp to the
stevpan, add two ounces of butter rubbed into a table
apoonful of flour. Stir all together till thickened,

adding a little white stock or water if necessary; season carefully, and stand aside. Fosch as many eggs as you wish to serve, and turn them out on rounds of buttougd toast cut the size of the eggs. Four the tomato sauce round each egg, scatter chopped pariley

tomato sauter sound earn egg, scatter coopped parsity over the eggs, and serve.

Eggs, Bersambled.—Four eggs, two ounces of fresh butter, half a teaspoonful of sait. Have ready slices of hot buttered toast to put the eggs on when done. Lay the toast on a dish in front of the fira Place the butter and salt in a white enamelled saucepan, break the eggs quickly on the butter, place on the fire, and stir one way with a spoon until a change is seen in the mixture. Take it from the fire, still stirring, and spread upon the toast in four portions; pepper

and spread upon the coast in total postures; prepare and serve very hot.

Eggs, Enow—Separate the whites from the yolks of six eggs, and whisk the latter to a stiff froth with a tablespoonful of caster sugar. Put a quart of milk into a saucepan, sweeten it to taste, bring nearly to the boil; then take two descrit spoons, and shape the white nou; then take two dessert spoons, and shape the white of egg, dropping it one by one into the milk; when set on one side, turn over; then take out and drain on a sieva. Strain the milk into another saucepan, and let it get cold, mix with the yolks of the eggs and simmer gentity over the fire to make a custard; favour with vanilla, pour into a glass dish, when cold lay the snow eggs on the top.

#### FIRH.

Cod Fish Balls.—Pick the fish, when washed, into one cupful of fine shreds. Peel some potacoes and cut into small pieces. Boil the fish and potatoes together until the potatoes are tender. Then strain through a colander. Mash these, and add butter, pepper and salt, and a beaten egg. When his impredience is the control of the prediction of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prope

and fry in boiling fat.

All the roe for about eight minutes in water with a little salt and vinegar, divide the roe into neat pieces, egg and breadcrumb it, and fry a light brown in deep fat. Serve with anchovy

Cod Steaks, Stewed.—Fry one chopped onion

Tod Steaks, Stewed.—Fry one chopped onlon' in a little butter, add to it a teacupful of fish stock, a piece of lemon rind, pepper and salt. Boll for a few minutes. Put in two cod steaks about an inch thick put on the lid, and stew gently until done. Dish up the cod, and thuken the liquor, adding butter and chopped parsley. Four on the fish, and serve, Eels, Stewed.—One and a half pounds of eels, one onlon stuck with cloves, lemon puel, half a pint of stock, half an ounce of flour, lemon juics. Wash and skin the eels, cut into pieces about three inches long, sprinkle pepper and salt over them, and lay them in a stewpan; pour in the stock, add the onton, lemon peel, etc., and stew for about half an hour, lift out the slace with the flour, add cayenne and peel, etc., and stew for about half an hour, lift out the fish, thicken the sauce with the flour, add cayenne and a squeeze of lemon, boil it up, pour round the fish, and

servie lot.

Fish and Tomato.—Take about a breakfastcupful of cooked fish, remove all the skin and bone,
and break up finely. Pass the pulp of four tomatoes
through a sieve to remove the seeds, and blend it with
he fish. Season and add a beaten egg and one ounce
of melted butter, stir well, and press into small buttered
cups, cover each with a buttered paper, and steam for
half an hour. Turn out on to tried bread, and garnish
with plainly-bolled rice (prepared as for curry).

Fish, Baked.—Wash and dry any fish, weighing
four or five pounds, dredge with salt and penner, and

Fig. Baked.—Wash and dry any nsh, weighing four or five pounds, dredge with salt and pepper, and place in a buttered pan. Pour over it a quart of chopped formatoes, a large onion chopped fine, and a large spoonful of chopped parsley. Add a little cayenne pepper and salt. Pour over all one half-cupful of fine oil or melted butter, and then bake slowly until well done

Fish Balls.-Shred cold boiled flaky fish very fine, and add a sauce made with one ounce of butter, one tablespoonful of four, and shalf a cupful of milk; put all in a saucepan; the sauce should be very their. When all is hot, add two beaten eggs, pepper asit. Then drop the mixture, which should be like

batter, from a spoon into very hot fat. It win puff, and be very light.

Flash Chakes.—Take equal weighth of fish and potato which has been previously boiled. Broak up the potatoes through a fine sleve. Mix potatoes and fish together and season with sait and cayenne, adding a few drops of anchory and a squeeze of lemon juice; put all into a basin, and make into a paste with a little milk, melted butter, and a lightly-beaten egg. Make the paste into small round cakes, roll-first in a beaten-up erge, and then in breadcrumbs. Fry the cakes up egg, and then in breadcrumbs. Fry the cakes

up egg, and then in breadcrumbs. Fry the cakes until they are golden brown, then serve hot.

Final Pastiles.—Poor boiling water over a dried haddock, let it stand until cool, remove the skin and the bones, break it in pieces, and put it into a basin with two potatoes masthed amouthly. Make, and cut out some rounds of paste with a tumbler, two for each patry. Mix up the fish and potato with one whole egg, a little partley, and pepper; put a piece of the mixture on one round of the paste, just wet the extreme edge of the paste, cover with a second round, press them well down at the edge, put them on a baking th, and bake for twenty minutes in a moderately hot oven.

Fini Pudding.—Shred a pound of any cold boiled fish, add one ounce of butter, and let it stand over a slow fire till the fish is warmed through. Soak bread in milk until soft, then beat it up finely with two eggs.

slow fire till the fish is warmed through. Soak bread in milk until soft, then beat it up finely with two eggs, a teaspoonful of anchovy essence, one of ketchup, salt and cayenne. Mix, put in a greased basin, and steam for one hour, or bake in the oven for thirty minutes. **Haddook Finnie.**—Rinse a deep ple-dish with very hot water, then lay the fish in the dish, pour boiling water over it, cover the dish closely with a plate, and let the fish remain in this boiling water

some eight or ten minutes, or less, according to size. When heated through remove the haddock from the dish, lay it on another hot one, pepper nicely, rub over

with butter, and serve.

Haddook. Stawed.—Hold a dried haddock before the fire, when the skin will come off easily. Then cut it up in square pieces, lay it in a pan, pour boiling water over it, and stew ten minutes. Pour of the water, and add sufficient milk to cover. Add butter, pepper, and salt. Stew ten minutes longer, then thicken the milk with flour. Take out the fish, and

thicken the milk with flour. Take out the fish, and pour the sauce over it.

Hake, Baked,—Slice the hake into pieces one inch thick, dip each slice into vinegar, and then in the following dry ingredients well mixed together, sk tablespoonfuls of breadcrumbs, one tablespoonful of prated cheese, the same of paralety, onlon, and flour, pepper and salt one saltspoonful each. Thickly butter a baking tin, lay the shoes in after they are well coated, put a piece more butter on each slice, and bake for thirty migration.

thirty minutes.

Hallbut Cutlets.—Before cutting the fish into silces put it into a dish with some salt over it, and three parts fill the dish with water, but it must not touch the salt. After an hour take it out, dry it, and cut it into a batter and fry in boiling lard. When brown turn, and fry the other side. Drain, and serve with

shrimp sand my the three sales. Plant, and serve with the sales and the sales and the sales and the sales and the sales and peppercorns, a blade of mace, and a teaspoint of grated horseradish. Add a gill of cold water and the same quantity of vineyar. Bake in a slow oven for thirty-five minutes. Serve cold.

Harrings, Davilled Balt.—Fillet the herrings, and soak in two tablespoonfuls of olive-oil mixed with one tablespoonful of tarragon vinegar for an hour, then wipe dry. Crill for five minutes. Spread toasted bread rather thickly with cheese kneaded into a paste, with a high seasoning of mustard and some hot sauce. Place a grilled fillet of herring on each place of toast, and serve on lettuce leaves.

Place a grilled filled of herring on each piece of toats, and serve on lettuce leaves. Lebester, Baked in the Shell.—Divide two small lobsters, chop the meat into small pleces. Dissores an ounce of butter in a succepan, sir in a table spoonful of four, a chopped onion, and by degrees half a plat of milk. Sirt till all bods, add a beaten egg, and season with sait and cayenne. Fur the chopped lobster

back into the half shells, pour dressing over it. Scatter breadcrumbs over, and bake fifteen minutes.

Eacheral, Filleted.—Well wash, cut off the head, and cut the fish from the bone on both sides. Cut each half in two, well season with peoper and sak, beat up an egg until white and yolk are well mixed; dip each plees of mackered in flour, then in beaten egg, and again into finely grated breadcrumbs. Have ready a frying pan half full of boiling dripping, put in the fail, and fry for ten minutes. Serve with paralley sauce and reacher the contractions of the same paralley sauce and reacher the contraction. d potatoes.

mathed potatoes.

Mackerel.—Cleanse, and lay it flat in a deep frying pan, the bottom of which has been rubbed with butter or beef dripping, and just cover it with milk. Put two onions sliced, and a spring of parsley and lemon thyme into the milk, and a sprinking of pepper and salt; cover the fish with a plate or dish, and boil it for twenty minutes. Turn on to a hot dish when ready.

Oysters, Broiled.—Beard two dozen large oysters, and lay then, for a few minutes in a clean dry cotch. Brash cach over with a little warm butter, and sprinkle with pepper and salt. Brush the bars of the gridlion with a little of the butter. Cook over a brisk fire for about three minutes. Serve hot on buttered toast.

Oysters, Creamed.—Heat the oysters in their own liquor till plumped out. Stir in a lump of butter, and add pepper and sait. Heat some cream in a double boller. Before placing each oyster into puffpaste case, put them into the hot cream, heaping e top.

on the top.

Plaice, Boiled.—Wash the fish, and place in boiling water, with a tablespoonful of sait. Simmer gently for twenty manutes. Carnish with sliced lemon and parsley, and serve with white sauce.

Frawns and Mayonnaise.—Cut strips of bread about two inches long and an inch wide; fry a light brown and let them get cold. Lay some this slices of tomate on the fried bread, cover thinly with mayonnaise sauce, then put a small strip of cucumber next, and on top of this a prawn dipped in mayonaise.

Balmon, Boiled.—Place about two and a half bounds of fresh salmon in a fish kettle, and cover with boiling water; add one heaping tablespoonful of sait, one onion cut into quarters, one small carrot, six whole popers, a bouquet and half gill of white vinegar, boil up, and then let it all simmer for ten minutes. Remove the fish carefully and serve.

up, and then let it all immer for ten minutes. Kemore the fish carefully and serve.

Balmon Guilets, Bolled,—Take a slice of salmon of a good thickness, and put in a stewpan with a small onton, a spoonful of chopped paraley, a few small mushrooms, pepper and salt, and half a plnt of stock and red wine in equal quantities. Boll the fish till done; take it out, roll a bit of butter in fwo spoons ful of flour, thin it with some of the liquor of the fish let it boil up, and pour it over the salmon. This fist

full of flour, thin it with some of the liquor of the fish let it boil up, and pour it over the salinon. This fish should be eaten directly the sauce is poured over it. Sardines and Cheeses—Warm some sardines in the oil from the tin, add pepper, salt and juice of lemon. When hot, lay the sardines on a hot dish sprinkle grated cheese over them; thicken the sauce with a little flour and the yolk of an egg, and mask the sardines with it; a mish the dish with fried croftons. Shrimps with Eggs.—Shell about three dozen shripps, dust them lightly with cayenne pepper, and put in the oven with melted butter to get warmed through. Meanwhile, put one ounce of butter in a stewpan, break into it three eggs and season to taste with salt and pepper. Sir for two minutes, then add the warmed shrimps, and str all together until it begins to set; then draw the pan to the side of the fire, so the warmed shrimps, and stir all together until r organic to set; then draw the pan to the side of the fire, so that it may not cook too quickly. When the eggs have thickened lay the mixture on squares of hot buttered toast, and serve.

Soles, Baked.—Fillet a large sole; cut each fillet into long strips about an inch thick and tie into a knot, put them in a buttered tin with a piece of buttered

paper over them, bake in moderate oven for so minutes, place on dish, and pour tarragon vinegar over

· Forcement Balls for Hare.—Cleanse and boil the liver of the hare. Mince and mix with about six tablespoonfuls of white breadcrumbs, two table-

spoonfuls of ham or bacon, four tablespoonfuls of suet, one tablespoonful of paralley, and half the rind of elemon, all chopped finely. Season with cayenne and salt, and mix all together, moistening with two eggs well beater. Form into small balls, Flour well, and

well beaten. Form into small balls. Flour well, and fry in boiling fat.

Forcameat, Chestnut, for Bolled Poultry.

Peel half a pound of chestnut and boil. The remove the skins, and cook in a little stock. Pound them with an equal quantity of winte breadcrumbs and butter, and season with grated nutueg, pepper and salt. Bind with the yolk of an egg.

Forcameat (Dry) for Fish.—Add to six table-spoonfuls of fine white breadcumbs two tablespoonfuls of chopped parsley, one teaspoonful of mixed herbs, half a teaspoonful of grated leuion rind, and a seasoning of salt and pepper. Mix thoroughly, and lay, dry as it is, between the fish, boned and cleansed, and bake on a greased baking sheet.

a greased baking sheet.
Forcemeat for Game.—Take about half a pound of raw weal, quarter of a pound of bacon, quarter of a pound of call's or lamb's liver, and the livers of the game to be used. Fry these, addung seasoning of sait, pepper, and the yolk of one egg. A small quant ty of mushroom purce is sometimes used.

mushroom pure is sometimes used. A sana quant you mushroom pure is sometimes used. Yeal, etc.—Mix together half a pound of white breadcrumbs, quarter of a pound of finely-chopped suct, a texpoonding of salt, half that quantity of pepper, a tablespoontial of chopped parsiey, a teaspoontial of mixed herbs, a saltspoonfail of grated hemon rind, and a little grated nutmer. Mosten with two eggs well beaten, and a small quantity of milk.

Forcement, Oyster.—Half a pint of oysters, five ounces of breadcrumbs, one ounce of butter, the peel of half a lemon, a sprig of parsley, salt, nutneg, a very ittle cayenne, and one egg. Beard half a pint of oysters, minco very fine, and mix with them the lemon peel chopped small, the chopped parsley, salt, nutmeg, cayenne, and about one ounce of butter in small pieces. Str in five ounces of breadcrumbs, and bund with the Stir in five ounces of breadcrumbs, and bind with the yolk of an egg, and part of the oyster liquor.

#### FRITTERS.

Fritters, Apple.—Peel, core, and slice the apples Mix a batter of four ounces of flour, a pinch of salt, add two beaten eggs. Dip the rings of apple into the batter, and fry in boiling fat to a nice golden brown. Serve hot, and sprinkle with fine caster sight.

Fritters, Cheese.—Cut some long, thus strips of cheese, about two inclues long and an inch wide. Lay them for half an hour in a little oil, vinegar and popper.

them for hair an nour in a intereoil, winegar and pepper.

Next make some batter by putting two ounces of flour into a basin with a few grains of salt; make a hole in the middle, and mix slowly into it three tablespoonfuls of tend water, to which half a tablespoonful of melted fat has been added. Beat all well together, then whisk stiffly the white of one egg and stir it in lightly. Have a pan of fat so lot that a faint smoke rises from it. Dip the slices of cheese into the latter with a skewer, then drop them into the fat, and fry a golden

brown.

Fritters, Custard.—Half a pint of milk, five eggs, half a cup of sugar, one gall of cream. Beat milk, cream, sugar and eggs together, strain, put into a small bowl, set in a saucepan, with boiling water to reach half-way up the side of the bowl. Steam gently until set, allow to cool. Cut into pieces about one and a half inches long by one square; dip in batter and fry

Fritters, Fish .- Pound the remains of any cold fish, mix it well into some batter. Drop the mixture by spoonfuls into a pan of seething fat, and serve immediately. An excellent breakfast dish, or good as

immediately. An excellent breakfast dish, or good as a garnish to serve with a dish of fish.

Fritters, Sayoury.—Five ounces of onion, one teaspoonful of powdered sage, four eggs, and four ounces of stale bread. Soften the bread thoroughly in a dish with a little boiling water, covering it over, and letting it soak for an hour; mash it with a fork, picking out the hard pieces; boil the onion in two or three waters nil quite soft; clop small, add the powdered sage, jepier and salt, and the eggs well beaten; mix

the whole intimately with the bread, and fry in fritters about half an inch thick and three inches broad,

#### FRUIT COOKERY.

Almonds, Salted .- Put the shelled nuts into a bowl, and pour boiling water over them. Cover them and let them stand for about ten minutes. Then strain and let them stand for about ten minutes. I then strain and skin them. When blanched thus throw them into cold salted water. Dry them, and sprinkle with olive oil, string well. Sprinkle with salt, and bake in shallow dish.

Ambrosia.—Peel six oranges and cut into pleces. Slice up one lemon with the rind on it; cover all with caster sugar. Allow to stand for two or three hours before serving.

caster sugar. Allow to stand for two or three hours before serving.

Apple Chutney.—One and a half punts of vinegar to a pulp. When cold add quarter of a pound of brown sugar, three ounces of salt, quarter pound onions, chopped fine, two ounces ground ginger, three ounces mustard, quarter ounce of cayenne pepper, quarter pound raisins, chopped fine. Fut in a jar and keep, the longer the better.

Appless. Coddled.—Choose some large, sharp apples of even size. Remove the cores, then peel them. Place them in a stewpan, sprinkle thickly with sugar, and put a clove in the middle of each. Fut on the hd, and steam them on the back part of the stove till soft, but not broken. Dish carefully.

Appless. Compote of.—Peel six ripe apples, halve and core them, and rule each with a slice of lemon. Fut half a pound of lump sugar and half applies, the thisly pared rund of the lemon, and to puce Simmer until tender, then take up carefully as not to break the fruit. Straut, and reduce the syrup as not to break the fruit. Straut, and reduce the syrup as not to break the fruit. Straut, and reduce the syrup as not to break the fruit. Straut, and reduce the syrup jucce simmer until tendor, then take up carefully so as not to break the fruit. Strain, and reduce the syrup by boiling very quickly. Arrange the fruit, when cold, on a glass dish, colour the syrup, pour it over the fruit, and garnish with little strips of citron.

Bananas, Baked—in South America bananas are baked and eaten as a substitute for meat. They are slit and buttered, then baked, like the homely potato "in their juckets" for half an hour.

potato "in their jackets" for half an hour.

Bananas, Soalloped,—Covera buttered pudding dish with a thick layer of sliced bananas; over this put two tablespoonfuls of sugar, and moisten with lemon juice, and then sprinkle a layer of breadcrumbs, repeating this process till the dish is filled; pour a little melited butter over the top, and bake till the top is slightly browned.

Chestnuts, Devilled.—Boil half a pound or chestnuts in their shells till tender, peel and skin them, and soak in a good strong bottled sauce for half an hour or more, melt half an ounce of butter in a saucepan, put the nuts in. Stir about till heated

saucepan, put the nuts m. Str about till heated through and serve very hot.

Gooseberry Gream.—Cook a quart of green gooseberries till soft with three ounces of white sugar, and pulp through a hair sieve. Beat up the yolks of four eggs, add half a teacupful of milk or cream to them, and stir in. Sweeten and stir till it thickens, but do not let it bul. Add the whites of the eggs whipped to a stiff front to half a teacupful of cream, also whipped, and pile lightly on the top of the glasses to cool. Nuts.—Even the common hazel nut will make an

excellent dessert dish arranged on their own leaves. while few winter dessert dainties are nicer than a plate of freshly-roasted chestnuts. It may not be generally known that Brazil nuts can also be shelled and roasted like chestnuts. Dried and salted almonds are also an excellent addition to dessert. Spanish nuts may be dried in the same way. They should be rubbed in salt and placed in the oven till they get crisp, and of a

sair and placed in the oven the free get crisp, and or a light brown colour.

Olives, Stuffed.—Stone the required number of olives, stuff quite full with pounded anchovies and butter, and cook for five minutes in olive oil, drain and

Peaches and Rice.—Boil some rice in milk slowly for an hour, and when it becomes quite firm add sugar to taste, and some essence of vnnilla, two yolks of eggs; str on the fire till the eggs are set, then fill a mould. Stew some peaches from a tin for a few

PEARS' CYCLOPAEDIA.

minutes. Turn out the rice, dish up the peaches on it, and decorate with strips of blanched almonds.

Pears, Ginger.—Feel and core ripe pears, and cut into thin slices. Weight the pears, and allow to four pounds of them the juice of two lemons, a gill of water, three pounds of sugar, and one pound of ginger root 'ut into very thin slices. Put ail, except the temon-juice and fruit, over the fire, and heat until the sugar is dissolved, next lay in the pears, add the lemon-juice, and cook uncovered for an hour.

Pears, Small.—Boil a pint and a half of water with three pounds of loaf sugar to a syrup, peel the pears, and stew gently in the syrup until tender. Flavour with cloves, and place in jars with barely enough syrup to cover them, cover with bladder, and keep in a dry place for use.

Pears, with Rice.—Put four large p-ars, cut in half, in a stewpan with a pint of water and eight conces of sugar; sammer gently until tender. Take out the pears, and let the syrup boil down to half, flavour with vanilla. Spread a teacupful of rice, nucely boiled in milk and sweetened on a dish, lay the pears on it, pour the syrup over, and serve.

Plum Charlotte.—Heat the pluins, made sweet.

milk and sweetened on a dish, lay the pears on it, pour the syrup over, and serve.

Plum Charlotte.—Heat the pluns, made sweet, very slowly. Cut four slaces of light state bread, and soak them in the juice. Cover the bottom of a mould with the fruit, and lay a slice of prepared bread on top, then another layer of pluns, and so on, alternating until the receptacle is full, finally pouring the remainder of the juice over all Cool, and serve with cream.

Prunes and Taploca.—Soak half a pound of prunes in cold water, and next day remove the stones, and the pound of prunes in cold water, and next day remove the stones, and the purch of the prunes and the later to the request and the later.

add two ounces of sugar to the prunes, and boil them in the same water for half an hour. Str in three table-spoonfuls of tapicca, and continue the boiling for another half hour. Turn the mixture into a pie-dish,

another half hour. Turn the mixture into a pie-dish, and pour on it a custard made by mixing two eggs, one ounce of sugar, and half a pint of milk. Grate a little nutnage on top of the custard, and cool for serving.

Rhubarb Fool.—Cut the rhubarb mto inch lengths, cover the bottom of a saucepan with water; when it bolts, put in the rhubarb, with the rand of a lemon cut thin and a little cunamon. With plenty of brown sugar, let the rhubarb cook until soft, then strain.
When cold, whip halfa pint of cream, and sur m lightly
the pressed rhubarb. Serve with rice pudding.

Gingerbread .- Half a pound of flour, a quarter of Gingerbread.—Half a pound of flour, a quatter of a pound of raisins, two ounces of butter or drapping, two ounces of butter or drapping, two ounces of sugar, one tablospoonful of treacle, half a teacupful of butternilk, one egg, one teaspoonful of ginger, one teaspoonful of spice. Rub the butter into the flour, add the dry things, and the raisins incely prepared. Mix the treacle and the butternilk together

prepared. Mix the treacle and the butternulk together and stir them in, then the egg well-loaten; mux all together with a spoon, pour in a greased and floured cake-tin, and bake till ready.

Ginger Loaf.—To four pounds of dough add one pound of raw sugar, half a pound of butter, one ounce and a half of carraway seed, one ounce and a half of carraway seed, one ounce and a half of ground ginger. Bake in the usual way.

Girelle Cakea.—Half a pound of fine oatmeal, a teaspoonful each of sugar and baking powder, a pinch of salt, milk or butternulk. Mix the dry ingredients, add enough nulk to make a light batter, and bake in spoonfuls either in the oven, on a baking tin, or on a girdle. girdle.

Grawy.—Keep all scrapings of gravy from beet steaks, all that is found under the dripung from a road-joint, etc. If you have nothing of this kind, you can always make some by taking some bones of cooked meat, breaking them snail, covering with cold water, and stewing them slowly for two days. When cold, remove the fat, and you will have a nice gravy, as a

remove the lat, and you will have a nice gravy, as a foundation for hash or any made dish.

Gravy, a good Beef.—Cut up half a pound of beef into small pleces, and put it, with a pint of cold water, in a stewpan. Add chopped onion, half a test spoonful of sait, pepper, a tablespoonful of sauce, and summer gently for three hours. It must not bod quickly. Fifteen minutes before taking it up add half a teaspoonful of arrowroot, previously wetted with cold water, stirring all together. Boil and strain just before serving. Gravy, Erowning.—Into a pan, kept specially for the purpose (as the sugar will discolour it), put foun ounces of granulated sugar, over a hot fire, stirring with a stack till very dark and almost at burning point. Then add quickly, still stirring, a cup of cold water. This is boiled up very slowly, and allowed to continue boiling for four or five minutes. Bottle and cork for use in browning gravy, sauce, or soup. It will keep good for a long time.

Gruel, to Make.—One tablespoonful of oatmeal, one plut of boiling water, two tablespoonfuls of cold water, and sugar or sait. Max the oatmeal smoothly with the two tablespoonfuls of cold water, then pous on the boiling water gradually, string all the time; put it into a small saucepan, bring it to a boil, and let it sinuer for half an hour, stirring it very often to prevent

simmer for half an hour, stirring it very often to prevent its burning, and to make it smooth. Serve it with sugar or salt. If the oatmeal is very coarse, the gruel should be strained.

be strained.

Haggis, Scotch.—Wash well the stomach of a sheep, turn it inside our, scald it, and put into salted water until wanted. Bot the liver, lights, and heart; mince them, and add half a yound of chopped suet, four minced onions, and half a pound of chopped suet, four minced onions, and half a pound of toasted oatmeal caker pounded into powder. Season with pepper and salt and stufffice "lag" with the variors ingredients. Add a teacupful of good broth or gravy, and sew up. Put this into a saucepan (pricking the "loag" to keep it from bursting), with sufficient water to cover, and a plate under to keep it from stacking to the bottom Boil for four and a half hours, keeping covered with boiling water. boiling water.

#### HAM.

Ham and Eggs, Baked.—Cut some ham incomall shees, partially cook, then drain the pieces carefully from the fat, and arrange them at the bottom of a well buttered dish. Cover the surface entirely with skilfully broken fresh eggs, sprinkle a little salt and pepper over the top, and bake in a moderate oven until the eggs are lightly set, then serve as hot as possible. possible.

Ham Balls.—Take half an ounce of breadcrumbs, and mrx with three-quarters of a pound of lean ham chopped fine. Beat two ergy, add to the ham, and form into balls with the help of a little flour. Fry in

form into balls with the nerp of a new now.

deep tat, and dry on paper.

Ham, Boiled.—Ham requires longer to boil than beoff or monition, and if long cured, it must be well soaked before bedling. Put the ham into a good-sized pot, and let it come alonly to the boil. Then allow it to boil quickly, and when done, draw off the skin, rub with sugar, and place before the fire to brown.

How Gakea.—Minec cold boiled ham gry finely

Ham Cakes.—Mince cold boiled ham reery finely after removing all gristle, skin, and fat. Add a little cayenne pepper, and pound in a mortar with butter, when quite smooth, form into small cakes a quarter of an incli thick; cover with mashed potatoes, and fry in boiling fat. Soaked breadcrumbs may be mixed with

He hain II preferred

Ham, Potted—Mince cold hain, and mix it with
a dash of cayening grated nutner, and mix it with
no a buttered pie-dish, pitt greaved paper over the
op, and bake in the oven for twenty-five minutes. Then pot into jars, with a superficial lafter of clarified butter, and put away to cool before use.

Hare, Jugged.—When the hare is skinned, allow all the blood from the upper part of the body to run into a basin along will the liver and heart. Divide the hare into joints. Put these in a stewpot with water, and one conon stuck with cloves, a tiny bunch of heibs, a bay leaf, and a lemon rind. Stew gently for about three hours, and in the the blood two tablespoonfuls of flour and a little the blood two tablespoonfuls of flour and a little winegar. Boll this and strain. Parlool the liver and heart, pound them, and mix with some forcemeat, make into balls, and fry in boling fat. Use these balls as a garnish. Add a glass of port wine to the Jugged hare, and serve with red currant jelly.

Hash, a Cold.—Lady Chancy, writing in 1920, gave this quaint receipe: "Take a turkey and let him be cold, then mince the white of him smail, with

anchovy and oysters, so draw it out in the dish in flowers and lay it round with all sorts of pickles, and it is proper for the middle of the table."

Hash, a Savoury.— Dissolve two ounces of butter in a stewpan with a spoonful of red currant jelly. Place slices of cold mutton in this, turn and heat sleave not letting it get give. Place surparhe jelly. Place suces or cold mutton in this, turn and heat slowly, not letting it get crisp. Place some hot, finely-chopped spinach on a hot dish, and arrange the meat on it. Add a tablespoonful of vinegar mixed with a little dry mustard, lenon juice, and some gravy. Str., thicken with conflour, season well, and pour around the mutton and spinach.

#### INVALIDS. COOKERY FOR

Invalid Beef Tea.—Mince lean gravy beef. Put it into a jar, cover it with water, add a little salt, and stir it with a spoon. Cover and put the jar into a saucepan with the water reaching to the middle of the

saucepan with the water reaching to the middle of the pot, and steem for four hours and a half. See that the water due not dry up in the vessel. Strain carefully before errung to the patient.

Invalid beef Tea Custard.—Where eggs may be given the following forms a nice change for the invalid from ordinary beeffea, and is usually much appreciated. Beat up two yolks and one white of new laid eggs, a pinch of salt, and a small cupful of beeftea made either from fresh beef or any good essence, put into a small beam, and steam it over a saucepan much smaller than the basin, so that the latter will not touch the bottom of the saucepan. The waters should touch the bottom of the saucepan. The water should only simmer. The custord may be baked by putting

touch the bottom of the saucepan. The water should only simmer. The custard may be baked by putting it in a small dish, and placing in the oven till set.

Invalid Blancmange.—Bottom on the other till set.

Invalid Blancmange.—Bottom on the feet stangles, with a stack of camainon, in half a pint of water. In half an hour the isingles will have the solved and become a very thick jelly-like substance; then mix to it a pint of new milk, and loaf sugar to taste. Let it bod up once, and then strain into a basin. When neanly cold, pour it into a mould it should turn out a beautiful white jelly, like marble.

Is valida, Eggs for.—Bring the water to the bod, then trike the saucepan off the me, and place the egg in it for five namitre. This will cook the egg per rectly without bardoung the white.

Invalid's Pudding for Christmas.—Five

Invalid's Pudding for Christmas. - Five sunces of breadcrumbs, three ounces of caster sugar, three onices of sultana, but a pint of milk, three onices of sultana, but a pint of milk, three onices of candid peed, one onice of hump sugar, mid of one lemon grated, yolks only of two eggs. Mix breadcrambs, peed, raid, sultanas, and caster sugar Place loaf sugar and a teaspoonini of water in saucepain over fire, stir until dark colour, add milk, and let boiled sugar discolve in it. When cold pour this gradually to yolks of eggs, strauming all then; add a lettle sherry or extra milk, steam for one and a half hours, and serve

or vatra milk, steam for one and a half hours, and servic with a white same. This being devoud of suce will allow invalidy to partake of Christinas hadding without mjury. Invalid's Pudding, Handy.—One egg, a third of a part of milk, one-endant of an ounce of gelatine, and an ounce of hunty sugar. Beat up the yolk and the white of the egg separately, and sook the gelatine in enough milk to cover it until it is swollen. Then add the egg yolk and sugar. Boil the rest of the milk and pour if over these labelies and sugar as soon as they are ready. Sir well, and let the mixture come to the boil, then nour on to the breyonsity well-wilmoned white of then pour on to the previously well-whipped white of egg. Mix thoroughly, and poin it into a mould. Do not disturb until cold, when it will be ready to serve.

Jam, Blackberry (Spiced).-Make a syrup of

Jam, Blackborry (Spiced).—Make a syrup of two pounds of light brown sugar, one pint of best cider vinegar, and one teaspoonful each of ground cloves and cunnamon. When boiling, put in six pounds of blackberries, and let simmer very gently for fifteen minutes. Seal, boiling hot, in pint jars.

Jam, Cherry.—Take good sound cherries, and remove the stones; put the cracked stones in a small pan and boil them for half an hour, and strain; then take one pound of sugar to one pound of fruit and half a teacupful of the water the cherries were boiled in; if necessary, make up the water with a little red currant juice; boil the sugar and water for ten minutes, then

put in the cherries, and boil for about forty minutes till it jelles.

ill it jelies.

Jam, Cranberry and Apple.—Cranberries one quar, one and a half quarts of sweet apples, two-thirds of a quart of cold water, two and a half pounds of sugar. Put sugar, water, and cranberries on together; boil until the cranberries begin to crack; add the apple and boil elowly until soft. Bottle for use.

Jam, Damaon.—Allow a pound of sugar to each pound of truit. Wash the damsons and dry them well in a towel. Put a large cupful of water and the same of sugar into the preserving pan, and when melted out in in a towel. Put a large cupful of water and the same or sugar into the preserving pan, and when melted put in a third of the damsons and a third of the sugar. When that melts, put in half of what remains; let that melt before adding the rest. Let it simmer slowly for half an hour, then boil quickly for a quarter of an hour, pour into jars, and leave them undisturbed for two days before tying down.

#### JELLIES.

Jelly, Apple.—Pare, core, and slice the apples, Boil the slices in a little water till they are pulpy; strain them through a hair-sleve; that which runs through is to be used. Tale one pound of lump sugar for each puit of juice, and boil for twenty minutes. The juice of a lemon with a bit of sugar may be boiled along with it. Pour into jars, and cover tightly when cold. cold

abily, Calves' Root.—Put two prepared calves' feet into a pan with two quarts of water, and let it boal steadily but gently till the luqual is reduced to half. Then strain and leave till stoff, remove all fat by pouring a cupful of bouling water over it, and plaking a lisect of clean blotting paper on the top after ski muing. Take one and a half pints of this stock, free from any fat or sediment. Put it into a pan with the strained juice and thinly-ne cled rinds of two lemons, a glass of sherry, three connecs of pounded leaf sugar, and the whites and crushed shells of two eggs. Whisk all these migredients over a gentle heat till the liquid bools up to the top of the pin, let it sink and reboil twice, then draw the pan to the side of the free, and let it stand for ten immutes. Wring out a jelly bag in hei water, let the jeily run through, and pour into shaper

to mould.

Jelly, Coffee.—One teacupful of very strong coice and an ounce of gelatine are required. Dissolve the gelatine in the coiffee. But into a succeptan one part of milk and eight ounces of lump sugar. When nearly boiling pour in the coffee and gelatine. Boil together for ten manutes and pour into a wetted mould; set it in a cool place till stiff.

Jelly, Crab Apple.—Cut the apples in sections, well pared and cond, and put in a jar. Place the jar in a sancepan of boiling witer, and let it simmer until the juice is well drawn from the fruit, then strain. Measure the juice and allow to each purt a pound of

Measure the juice and allow to each purt a pound of Measure the juice and allow to each pint a pound of locf sugar; put these in a preserving pain, set it over the fire, and keep stirring for about half an hour removing the scum as it rises. When a lattle jelly put on a plate, cods firm, it is done. Pour into pots cover with olden paper. Store in a dry place.

Jelly, Cranberry,—Allow a cupful of water to a quart of berries. Boil until soft. Turn into a cheese cloth bag to drain. Allow sugar in equal measure to the brice. Boil officer invusive, sensower the sturn.

the juice. Boil fifteen manutes, removing the scum When it thickens on the spoon turn (hot) into the

glasses.

Jelly, Currant.—Pick stalks from fine, large red currants, put them in a preserving pan over a moderater, and crash with wooden spoon till juice is extracted. Strain through a jelly-bag, and to every cupful of juice add half a pound of sugar. Put juice and sugar back in the pan and gradually boil. Let it boil for about ten minutes, and then, when a lutic cool, turn into glasses or moulds. Turn out when cold.

Jelly, Strengthening.—Put one ounce each of sago, ground rice, pearl, barley, crying-root, and gelatine, previously soaked in cold water; boil gently till reduced one-half. Strain and set aside. A few spoonfuls may be dissolved in broth, tea or milk.

**Kedgeree.**—Pick cold cooked fish from the bones, chop it, add two hard-boiled eggs, and mix well

together. Now take a teacupful of well-boiled rice, seasoned with white pepper, a dash of cayenne and salt. Put all into a saucepan, with two or three ounces of fresh butter cut in lumps. Stir it all over the fire, and serve hot.

and serve hot.

Ketchup, Granberry.—Take five pounds of cranberries, one pint of vinegar, two and al-half pounds of sugar, three dessertspoonfuls of cinnamon, two of allspice, one of cloves, one of salt, and a little cayenne. Boil slowly one hour and hottle.

Ketchup, Elderberry.—Pour a gallon of water over a gallon of mpe elderberries (with stalks already picked) in a large jar. Place it the back of the range to romain all night. Then drain off the vinegar, add three ounces of shallots, one ounce of root runger, one tablespoonful of cloves, two blades of mice, and one tablespoonful of peppercons. Boil for twenty muntes,

tablespoonful of peppercons. Boll for twenty minutes, and one tablespoonful of peppercons. Boll for twenty minutes, stand for twenty-four hours. Stram and bottle.

Ketchup, Mushroom.—Large flap mushrooms arranged in layers sprinkled with salt in an earthenware pan, and well mashed on several consecutive days, should be stewed in close lars for two hours with allspice and seasoning, the liquor passed through a hair sieve, and then boiled gently for half an hour, cooled, bottled and scaled, storing thereafter in a cool

place.

Ketchup, Tomato.—Quarter ripe tomatoes, lay on dishes and sprinkle with salt. Next day dram away the june, stram it, and boal for half an hour with capsicums and shallors; pulp the tomatoes, passtrough a fine sieve, boil with the june for a further half hour, and bottle off hot, sealing tightly.

Kidney, with Haricos Beans.—Wash one pound of hancut heans, and leave them sadking for resolve hours. Place them in a deep contributions.

welve hours. Place them in a deep earthenware pain with a quart of water and some salt, in a good oven When half the water is absorbed out the kidney into pieces about one and a half inches square, and add it to the beans. Add also three currots, three ounces of butter, herbs, celery, pepper, and a much of mustard. Cover the dish and replace it in the oven, to simmer for an hour and a-half. Remove the herbs before

Kidney, with Tomato Sauce.—Cover the haved kidneys with flour, and fry in butter, with a finely-shredded shallot. Singuer this in a saucepen for mery-streamed states. Similar this in a sattegar for one hour, with half a pint of founds saide, a sprinkle of mixed herbs and pepper and salt. Thicken with butter and flour, add a hitle gravy colouring and the juice of half a lemon. Serve hot.

#### LAMB.

Lamb and Cucumbers.—Peel three cucumbers and remove the seeds. Put them into a quirt of water with sait and vineger; let them stain for three hours, then drain off the liquid. Work a quarter of a pound of butter into a table-spoonful of flour, add a pinch of of butter into a tablespoonful of flour, add a pinch of cayenne and a teaspoonful of sugar, then shake swiftly over a fire until it is of a pale yellow colour. Add the cucumber, and cook gently for twenty minutes, shaking the pan at intervals. Then put in one gill of white stock and cook for ten minutes more. Add the junce of one small lemon, and serve over well-seasoned lamb

cutlet.

Lamb, Braised Breast of.—Remove the skin from the breast of lamb and put the meat into boiling water for a few immutes. Take the meat out and let it cool, then put into a pan with about half a pint of stock, some thin slices of lemon peel, and a few slices of bacon. Add pepper and salt, two chopped omons, a bay leaf, and a few carrots. Parley, thyme, muit or any savoury herbs you like may be added to give it a flavour. Simmer gently until tender.

Lamb, Rossi Breast of.—Put a nice breast of lamb into a saucepan with hot selved water, and bring to the boil. Boil for ten immutes, take the meat out, well dry in a cloth, put in a Dutch oven, and roast office a clear fire until meely brewned all over. Serve on a hot tish with new potatoes, with nint sauce.

or a hot this with new jointoes, with nint sauce.

Lamb, Rosat Neck O.—Roavi a neck of lamb.

Melt in a steepan one ounce of butter, put in a score
of small onions, two carrots cut into thin slices, two

turnips similarly treated, a teaspoonful of brown sugar,

pepper and salt; when the butter is all absorbed, add half a pint of good brown gravy and a little parsley. Stew gently till the vegetables are tender; dish with the roast lamb, and some baked potatoes on top.

Liver, to Fry.—Cut it into slices a third of an inch thick. Put them into a pan of boiling water, and let them stand for five minutes. Then dry in a clean cloth, dredge thickly with flour, pepper and salt, and fry until brown in drapping or butter. Parboil and finely chop some onions, and when the liver is partly done put in the omons, which should have been drained dry, and fry brown. When cooked through set it one bot dish, make a good gravy, and pour over all.

Macaroni and Cheese.—Throw some macaroni into boiling water, add some salt, and let it cook thoroughly. Well butter a pie-dish, arrange theleosked macaroni neatly therein. Dust with pepper, pour round it a large cupful of well-made white sauce, into which has been mixed three onces of grated cheese.

which has been mixed three ounces of grated choose. Let this run well amongst the macarou, and shake over all a liberal coaring of grated cheese. He st in the over, and brown the surface by passing a red-hot iron about half an irch above it; serve immediately

#### MADE DIBHES. (See also Moulds.)

Brawn.-Wash a pig's head and feet, then place

Brawn.—Wash a pit's head and feet, then place in bibling water along with a sint of heef weighing about one and a half pounds. Boil for two and a half hours, lift from the water, remove all hones and chop fine. Mix a tablest pointful of silt, a teasyconful of white pepper, a dast of cayenne and easyconful of white pepper, a dast of cayenne and easyconful of white pepper, a dast of cayenne and easyconful of white pepper, a dast of cayenne and easyconful of all peppers and place a weight on top. Turn out when sold.

Brawn, Ox-cheek.—Clean, removing all small boues, sook in salted water for two or three hours, way again and put to boil. Then add two or three carnist, turnips, and omous, thrine and parsley, peppersons, turnips and omous, thrine and parsley, peppersons two reapponfuls of salt, and a blade of nace pet algently boil until the meat will leave the bones, about four or five hours. Then temove the bones, about when cold cut the meat nate small pieces. Well wet a basin, put some pieces of hard-holled egg on the Op, fill in with the cheek about half-way up. Dissolve are ourse of gelatine in some of the hujure, let it boil ar ourse of gelatine in some of the liquor, let it buil season, strain and fill up the tusin or mould

Marmalade, Orange.-Boil the oranges in witer until the rmu can be pierced with the head of a pin When cold cut the fruit in quarters, and with a spoon take out the pulp and junce, carefully removing all planad white skin. Cut the peed in this strips and add double the weight in sugar, thoroughly clarified, adding three-quarters of a point of water to each pound of sweetching. Boil all up for thurly-five minutes, and place into scaled jars for use

Mayonnaise. Cucumber.—Take half a punt of salad oil, the yolk of a raw egg, and a luttle silt, pepper, and vinegar or lemon inne. Set the bowl in which the mayonnaise is to be maxed in a basin of ice. to make the ingradients blend perfectly; put in the egg yok, half a fessionful of simal hit perpective care in the egg yok, half a fessionful of simal hit pepper, a mix to a smooth cream, then begin to sur in the salar oil unit a thick paste is formed, she in vinegar slowly on unit a links pasters promen, an invinegal slowly until the sauce is creamy, then stir in more oil gradually until it is thick again. Proceed in this way until the oil is all used, taking care that the sauce is not too thin. When done add two or three tablespoonfuls of grated cucumber.

grated ducumber.

Mayonnaise of Vegetables.—Take new potatioes, green peas, artichoke bottoms, cut small and
cooked, pile tastefully on a dish and cover with
mayonuaise sance, arrange little bunches of chopped
lettuce, celey, tomatoes, beetroot, &c., sprankle a
little tarragon, chervil, and young onions around the
border. border.

Msringuo of Rhubarb.—Weigh a pound of young rhubarb stems after they have been carefully pared and cut in lengths; max en th ounces of pounded sugar with them and stew gently until they form a

smooth pulp, then quicken the boiling; stir often until stiff, then turn from the pan, and stand until quite cold. Whisk the whites of four fresh eggs to a solid froth. No drop of liquid must remain at the bottom of the basin. After this mix gently with it four tablespoonfuls of dry sifted suyar, stir gently together, and lay lightly over the rhubarb in a rather deep tart-dish. Place the méringue in a moderate oven, and bake for about half an hour.

half an hour.

Mincod Boef and Tomatons.—Cut four goodsized omons into rings, since half a pound of tomatoes,
and fry in beef dripping veasoned. Mince one pound
of beef, put it into a saucapan with the omons and
tomatoes. Let it come to the holl, then remove the
pan to the side of the fire, and summer for half an hour.

pan to the side of the fire, and similar nor man an non-flucken and make a wall of mashed potatoes, put the mince in the middle, and serve.

Minced Mutton.—Finely mince the meat, free from fat and skin, season well with salt, pepper, and a little piece of clanified butter. Put into some incely favoured stock, with the yolk of an egg well-beaten. Turn into a stewpan, and gradually warm without boiling. Stir constantly. Bul and mash some potatoes, season, and place round the dish that the mince is to be served on. Pour the muce in the centre, scatter over all some finely-minced parsley, and take hot to table.

Mincemeat for "Faggots."—A savoury
Faggot" may be made of a unnerneat of liver,
and fresh fat pork. Finely clop one and a halt
pounds of fresh pork. Season the nance with onton, pounds of tresh pork. Season the nince with doubt sage, salt, thyinc, and pepper. Steam it over boiling water, and throw off all fat. When cold add a large cupful of breaderunbs and three well-batten eggs. Mix all together thoroughly, favour, make into round balls, and bake in a greased dish with a little good

gravy. Mincemeat, Yesetarian .- One pound currants, half a pound of stoned and chopped raisins, half a pound of sugar, four ounces of brown breadhalf a pound of sugar, four ounces of brown bread-crumbs, three oranges and three lemons a pound of appleasa little spice, a quarter of a pound of mixed ped, half a pound of mannihade, salt, and half a pound of any kind of nuts. Cut off thinly the rind of the oranges and lemons, boil them in sufficient water to cover, and when quite soft, chop and mix them with the other ingredients, all prepared and numeral previously, moistening with a little of the water in which the rinds were boiled.

Mould, Fish.—Take away all homes and skin from any cold cooked sh, and chop into small pieces, mixing in pepper, salt, and finely-chopped parsley. Butter some small moulds, and sprinkle with inely-chopped parsley. Put the fish lightly into moulds; make a stiff sauce with two or three eggs well beaten and a very little mik, and pour slowly in to fill up the cups. Cover each with buttered white paper. Stand the cups in a pan of boiling water three fourths up their sides, and steam until set. Serve hot after caucfully turning out, with suitable sauce.

Mould, Lemon.—Boil a pint of water in half a pound of sugar, and the finely-grated rind of two lemons. Beat together the yolks of two eggs and the white of one, and str in gradually two ounces of comfour and one tablebyouthil of butter. Boil all together for five minutes. Place in a well-systed mould, a talt et it stand for four hours. Turn out, and before serving whip up the whites of the other egg, and pile lightly on the top. Mould, Fish.-Take away all bones and skin from

lightly on the top.

Mould, made from an old Fowl.—A good way to cook it is to boil it gently till the resh slips from the bones. Place the pieces of meat into a flat mould, and ornament with hard-boiled eggs. Sk in the fat from the broth, add half an ounce of gelatine powder, a little tarragon vinegar, mace, pepper, and salt. Strain this over the fool whilst still warm. Put

salt. Strain this over the fowl whilst still warm. Put on ice, and serve cold, whole or cut in slices.

Mould, Ox.Foot.—Bul an ox.foot in three pints of water, with a blade of mace, two bay-leaves, twelve peppercorns, four cloves, an onion, and a slice each of carrot and turnip. Bul until the foot separates. Mince two pounds of cooked beef, and cut a pound of cooked ham into dice, season well, and lay in a mould that has been ornamented with hard-boiled yolk of

egg. Strain the liquor from the ex-foot, and pour it into the mould. Turn out carefully when cold. Muffins.—To every pound of four mix one egg, one ounce of butter, and two tablespoonfuls of yeast. Melt the butter in half a pint of milk. Beat the mixture thoroughly, and set it to rise for two hours from into cakes and bake on a gruddle. When the Form into cakes and bake on a gradle. When the bottoms are brown, turn and bake on the other side.

#### MUTTON.

Mutton Chops, Sauté.—Slice thinly one small onion and one small carrot. Put these in a pan where butter is already meling. Add water, and boil for about three-quarters of an hour. Remove the onion and carrot and season with pepper and salt. Put in the chops and cook gently for fifteen minutes, stirring

the chops and cook gently for fitteen minutes, sturring the saute well all the time.

Mutton, Curried.—Put four ounces of butter into a stewpan with four minced onions, then add an ounce of cur y powder, a teapoonful of salt, a dessert-spoonful of flour, and half a pint of cream, sitring it until smooth. Gently fry two pounds of mutton, cut in smill neat pieces, to a light brown colour. Lay the meat in a stewpan and pour the sauce over it, and

meat in a stewpan and pour the sauce over it, and simmer it very gently until the meat is quite tender. Mutton Cutlets, with Chillies.—Work together two teaspoonfuls of chopped green or red chilles into two ownces of butter on a plate with a knile. Add half a teaspoonful of made mustard, grated hor-gradish, and a teaspoonful of walnut ketchup. Spread some of this mixture over each cutlet. Have some incely-mashed potatoes, in the centre of a hot dish, and place the cutlets around, with stress of feman. slices of lemon

Mutton, Devilled.—Since the meat neatly to equal sized pieces, and maintade them for an hour or so in a mature of two tablespoonfuls of oil, a teaspoonful of vinegar, a spring of parsley, two or three peripercorns, and a medium-sized shallot, shied; now drain, and roll the slices in breadcrumbs mixed with

drain, and roll the slices in breadcrumbs mixed with cayenine pepper, broil these slices over a clear fire, and serve with sharp cauce.

Mutton, Fillet of (Boiled)—Remove the bones from the thick end of a keg of mutton, and fill the cavity with some micely-seasoned veal stuffing. Roll out some light suet crust, season the joint all over with salt, pepper, and chopped onion, and put the meat make suct crust, wetting the edges with cold water to prevent the juices of the meat escaping. Wrap all this in a damp and floured cloth, and drop into fast boiling water. Cook until the meat is tender allowing the venty water. Cook until the meat is tender, allowing twenty immutes for each pound of meat, and a quarter of an

inhurtes for each pound of ment, and a quarter of an hour extra for every four pounds. Turn the meat out of the cloth, sprinkle with brown incaderunibs mixed with chopped parsley and serve. Nice rich grayy will pour out when the crust is cut. **Mutton, Fillet of (Stewed).** Have ready a half leg of mutton, and take the fillet end. Cut two dices off it about half an inch thick, rub butter and slices on it about had an in a stewpan with just enough pepper on it, and put in a stewpan with just enough water to cover the two fillels as they lie flat. Aid a little onion and chopped carrot, and simmer gently for thry minutes or a little longer. Take up the fillers and brown them before a brisk fire. Strain the gravy and thicken it.

gravy and thicken it.

Mutton, Leg of, with Caper Sauce.—Wipe
the leg with a damp towel, put into a kettle, cover with
boiling water, and simmer gently for fifteen ininutes to
every pound. Add a teaspoonful of salt. When done,
trke up, lay the joint on a heated dish, gamish with
parsley, and serve with caper sauce.

Mutton, Roulades of.—Cut some underdone or
raw mutton into pieces about three inches long by one

raw mutton into pieces about three inches long by one and a-half inches broad without fat. Season and put a few capers on each piece, which then roll up and run a skewer. Place in the oven on a baking-dish with just enough water to cover them, and bake for about half an hour. Slip the roulades off the skewer, and serve with caper sauce, made thick, and mashed potatoes

Mutton, Saddle of.—Remove any superfluous fat from the saddle, lightly sprinkle the meat with a mixture of two ounces of salt, half an ounce of pepper,

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and a quarter of an ounce each of ground cloves, mace, and nutmeg. After twenty-four hours wash off the spices, dry the meat thoroughly, and roast in the usual way, basting constantly with one and a-half \$\psi\$ into \$c\$ stock. Serve with red currant jelly, potatoes, and nicely bolled vegetables.

**Watton, Borambled.**—Season two cupfuls of chopped-up mutton, add two tablespoonfuls of gravy and half an ounce of butter. Put all into a small saucepan. When the meat is hot, add three slightly-beaten eggs; stir, and when the eggs stiffen, place on slices of buttered toast and serve very hot.

**Wutton.** Shoulder of (Bolled).**—Hang a

Exited of buttered toast and serve very hot.

Exited, Shouldar of (Bolled).—Hang a shoulder of mutton, until tender, and salt it for two days; turn it and sprinkle it with pepper and mace. Lay some of a dozen and a-half of oysters inside the joint, roll it up tightly, and the together. Then put it in a stewpan with enough water to cover it, put on the ild of the pan and fasten firmly. Stew the remaining oysters in the gravy, which must be thickened with a little flour and butter. When the meat is cooked remove the tane and your the craw over it.

little flour and butter. When the meat is cooked remove the tape and pour the gravy over it.

Mutton, Shoulder of (Stuffed and the bones, Make the stuffing by mixing together three tablespoonfuls of bread crumbs, three ounces of bacon, some mushrooms, one small onion and parsley chopped fine, a teaspoonful of powdered herbs, and seasoning. Add one beaten egg to bind the ingredients together. Stuff the spaces caused by the removal of the bones with this, and roll up tightly. Cut up in large pieces a carrot, onion, and turnip, and place these in a stewpan with some parsley and herbs and the bones taken from the shoulder and about two quarts of stock. Simmer for about two hours. Take out the meat, and, when for about two hours. Take out the meat, and, when cold, brush over with melted glaze, and garnish with

cold, brush over with melted glaze, and garnish with pleces of the cooked vegetables.

Mutton, Steamed—Put a small piece of muton into a pudding basin, dust with pepper and salt, and put the basin into a saucepan with boiling water to come half-way up the basin. Put on the lad, and keep the water boiling, adding to it as it boils in. Allow half an hour to each pound of meat. Add any bottled sauce preferred to the gravy found in the basin, or the gravy alone may be thickened with flour Mutton, Stewed.—Buy the lean end or scrag of a neck of mutton, and have it well cracked but not divided. Put it into the stewpan with old water to cover

divided Put it into the stewpan with cold water to cover it, sufficient salt and two omous cut in ladves. When on point of boiling add a cupful of tapioca suaked overnight. Let them summer together till cooked. Fut the meat into a dish, pour the liquo with the tapioca around.

#### OMELETTES.

Omelet, Asparagus.—Boil and chop the tender par's, and bent up with four eggs. Put three ounces of butter into a perfectly clean onnoiet or frying pan. When it is hot, add salt and pepper, beat up well pour into the pan, and fry quickly, turn over, and send to table as soon as possible.

Omelet Cheese.-Beat together thoroughly two

to taile as soon as possible.

Omelet Cheese.—Bleat together thoroughly two eggs, a pinch of salt, pepper, half a teaspoonful of inely chipped parsley, and double that quantity of grated cheese. Dissolve butter the size of an egg in a frying pan and fry quickly and carefully.

Omelet, King.—Mix two tablespoonfuls of flour, three ounces of sugar, yolks of two eggs, one breakfast-cupful of milk in a pan, and str until it thickens over a slow fire. When cold, whip the whites of the eggs to a froth, mix all together lightly, and fry like pancakes. Put apract jam between.

Omelet, Sayoury.—Best up three eggs with a little salt and a teaspoonful of finely minced parsley. Have ready a clean pan (only used for omclets), and melt in this some butter allowing balf an ounce for each egg, and when quite still and beginning to colour, add in the egg mixture, let it stand for, a minute or so on the fire, then carefully tilt the pan a little, slip a broad bladed knife underneath, and let the uncooked egg run under, repeating this till there is no more liquid, slip the knife under, and turn it on to a hot plate, service.

at once.
Omelet, Taploca.—Soak two ounces of taploca for an hour, boll gently for thirty minutes, adding salt;

stir in one pound of breadcrumbs, two ounces of boiled and finely chopped onlons and thyme. Beat all together and bake.

Omales, Tomato.—Cut three or four ripe tomates into pieces, and cut an onlon into the thinness slices possible. Melt a teaspoonful of butter in a pan, and cook the onlon and tomato for ten minutes. Keep the mixture hot and pour it over the surface of an ordinary omelet just as you are turning it out of the pan. The omelet will roll over of its own accord enveloping the tomatoes as it passes into the dish.

Pancake-Beef .- Make a thin pancake, spread it out, cut into pieces two inches wide and three inches long, and upon the surface of each place a very thin slice of bacon slightly smaller than the cake. Overthe bacon put a tablespromini of minced beef worked into a cold sauce to give it moisture and colesion. Roll up your pancakes, but them on a buttered tin, brush them with a whipped egg, breadcrumb them, and bake brown in the oven.

Provin in the over the first plant of milk, one egg, two tablespoonfuls of flour, half a teaspoonful of sugar. Beat up the sugar and egg. Add the flour and milk. Butter two snucers and divide the mixture, and bake in a moderate oven for twenty minutes. Remove from the saucers and put jam between them.

#### PASTRY.

Cheesecakes, Apple.—Peel, core, and skin one pound of apples, and cook in a little water till soft enough to crush. Add six ounces of butter and four enough to crush. Add six ounces of butter and four ounces of caster sugar. Strone way until the butter is melted. Pour into a basin, add the gratted rind and four well besten eggs, and stir with a wooden spoon until well mixed. Line small this with pristy before putting the unvitue in. Bake for a futle over a quarier of a moor in a hor oven. Cheasecakes, Curd.—Warm a put and a half of

new milk, and curdle with a dessertspoonful of rennet.

memencanes, Lura.—warm a put and a half of new milk, and curdle with a descritspoonful of remet. Drain the whey away through muslin. Add to the curd one beaten egg, a dessertspoonful of brandy, sugar, chopped peel, and currants to taste. Line party pairs with good pacte, put some of the mixture in each, and bake till a golden brown.

Pastry Making, Flaky.—Into a basia put a pound of flour, rub mto it a quarter of a pound of butter, mix cold water into it until an elastic paste is former! roll out, and put a quarter of a pound of lard on it in litch dalvs; fold in three, let it le in a cool place for ter minutes, roll it out agein, and put on in the same way a quarter of a pound more lard. Fold it and put away again for life-en minutes or more; it is then rolled out and ready for use.

Pastry, Making Puff.—Mix one pound of flour to a smooth paste with not quite half a punt of water, then roll out three times, the first time covering with four ounces of butter, the second with four ounces of lard, and third with four ounces of butter. Bake in a quick occas.

quick oven.

Pastry, to Glaze.—To glaze pastry for raised ples, break an egg, separate the yolk from the white, and beat the former for a short time. Then, when the pastry is nearly baked, take it out to the oven, brush over with the beaten yolk of egg, and put back in the oven to set the glare.

Pastry, to Prevent Burning. (See "Kitchen Notes," Introductory.)

Roll, Swiss.—This requires four eggs, one cup of sugar, one cup of four, and one texpoonful of baking powder. Beat the eggs well, then add the sugar and flour, with which the baking powder has been sifted and a little nilk. When baked, spread with Jam, and

Tart, Apple.—Peel, core, and slice some good cooking apples. Line a pie-dish with light, short paste, and cover the bottom with the apples as thickly as possible. Sprinkle with sugar, a little ground climamon, and the grated rind of a lemon. Cover thickly with sponge-cake crumbs, and bake until the

apples are tender.

Tartlets. Macaroon.—Place in pathy pans lined with thin paste a teaspoonful of raspberry or

strawberry jam. On the jam place a mixture made by forming into a firm paste two ounces of ground atmonds, one egg, and four ounces of caster sugar. Over this arrange crossed strips of pastry. Bake in a good oven, and serve cold.

#### PICKLES.

Beetroot.—Take freshly dug beetroots, and after gently washing off the soil so as not to break the skin nor any of the toudrils, boil tender; peel, cut in slices, and put into jars. Boil enough vinerar to cover the beetroots, allowing to every quart half an onnce each of bruised ginger, peppercorns, mace, salt, and cloves; when flavoured, strain, cool, and pour into jars, which should be tightly covered.

should be tightly covered,

Chow -Ohow -One half peck of green tomatoes,
one large calblage, and seven onnois. Chop, mix well
with salt, stand overnight with one ownee of celery
seed, a quarter of a pound of white mustard seed, a
quarter of a teacupful of ground pepper, a quarter of a
teacupful of ciniamon, and one gill of grated horseradish. Boil three quarts of vinegar and two pounds
of brown sugar, and when boiling hot pour over the

Onions .- Peel the onions, and stand in salted water Onions.—reel the onions, and stand in salted water for a couple of days. Stram the onions, and bottle them. Boil vinegar, in which is placed peppercorns, ginger, and allspice. When cooled a little, pour over the onions in the bottles. These will be ready in about

Piocalilli.—Add one ounce and a half of white scraped ginger to two quarts of vineyar, one ounce each of pepper and turmeite, one and a half ounces of salt, two ounces of peeled shallots, the same of peeled garlic, and a dessert-tyoonful of dry mustard. Infuse these in a stone jar, closely coverted, for a week in a warm place. Then prepare the cauliflowers by picking off the green leaves, plunging in strong boiling brine for seven or eight minutes, then dip in cold water, drain and dry. Boil in the pickle and cool, Trim the cauliflowers into neat pieces, fill jars with these, and pour over the cooled pickle.

Red Cabbage.—Remove the outer leaves, and cut the hearts crossives in very fine shreds, the finer the better; spread these out on a large shallow dish, sprinkle freely with salt, and leave in a cool place for twenty Piccalilli.-Add one ounce and a half of white

freely with salt, and leave in a cool place for twenty four hours, after which drain away all the liquid, place the cabbage in jars, cover with cold vinegar, which has been boiled gently for about ten minutes with ginger and peppercorns in the proportions already given for

and peripercorns in the proportions are any given for conions, and the down securely.

Shallots.—To each quart of vinegar add two teas spoofulus of whole repper Take off the fine outside skin, when the bulbs will look quite clear. As fast as peeded put in dry bottles or jars. Pour over sufficient cold vinegar to cover, with peoper and allspice. 'The down, and in a fortinght they will be fit for use.

#### PIES.

Pie. Apple (Banbury).-Butter a pie-dish, peel and core some juicy apples; put a layer of apples in the dish, with a thick layer of chopped muxed candled peel, nicely-cleanef currants, a little ground cinnamon, and ground garg. I your over this a little warm butter, then fill up the pre-dish with further layers of apples,

then fill up the pre-disls with further layers of apples, candied peel, currants, and flavouring. Add a teacupful of boiling water, and a teacupful of sugar; cover the pie with a mee short paste, bake in a hot oven for three-quarters of an hour. Brush the passe with milk, sprinkle freely with sugar, and set the jake with milk, sprinkle freely with sugar, and set the jake with milk, sprinkle freely with sugar, and set the jake in the oven for a few annures to glaze. Piel, Call's Head.—Boil call's head until tender, then cut the meat in thin slices. Make stock from the bones, skimming carefully, and favouring with vegetables, herbs, &c. Next day have some slices of hard-boiled egg, and lay them in the bottom of a greased dish. On these put alternate layers of meat and Jelly till the dish is full. Cover with some good put paste, and bake till the pastry is done. When cold, cut off the pastry and turn the contents of the ple upside down carefully on to a cold dish.

Pie, Game.—Cut one partridge, one pheasant, one

grouse, and a portion of hare into neat joints, and senson liberally, adding paraley and a shallot. Line deep pie-dish with thin and well-seasoned slices of veal and han, then lay in the game, some quarters of hard-boiled egg, and some forcomeat balls. Pour some good r, cover with crust and bake,

Ple, Giblet.—Put two or three sets of giblets into a stewnan and boil. Skin, and salt, and simmer gently for two hours. Cut the giblets when tender into uniform and two nours. Lit the giblets when tender into miliform pieces, and dip each into flour seasoned with pepper and salt. Then lay in a pie-dish with half a pound of steak cut into jieces and rolled in the seasoned flour. Pour in sufficient stock to cover. Top with sliced hard-boiled eggs and chopped parsley, then add a good crust and bake.

Pis, Lemon (American).—Line a pic-dish with short crust. Put a tablespoonful of comfour Into a basin, monsten it with cold water, pour a cupful of boiling water on it, and six rt itli slightly thickened; add the rind and juice of a lemon, one ounce of butter, two ounces of sugar, and one heaten egg; pour into a ple-dish and bake in a moderate oven. Serve cold, with sifted sugar

rover.

Ple, Mutton.—Remove all kin and fat from scraps of mutton. Parboil half a pound of potatoes, and chop an onion and a little parsley. Grease patty pans, and line them with nice puff paste. Fill with equal quantities of meat and potatoes well seasoned. Cover with pastry and bake for a few minutes in a hot oven, then stand on a cooler shelf that the meat may stew nicely.

Ple, Rabbit.—Lay in a pie-dish a rabbit, cut into neat piece, and rolled in flour, add small slices of bacon, chopped onion, grated nutneg and seasoning to taste. Top with a layer of sliced potatoes, pour in half a pint of water, cover with a good crust, and bake.

Ple, Steak and Kidney.—Cut the steak and kidney lint onext pieces, add water to cover, boil, then simmer gently for an hour. Thicken with flour, add pepper, sall, a little nutnings, and a little good bottled sauce. Put all this in a pie-dish, and cover with good paste. Brish over with yolk of egg, and bake until the next et is done.

paste. Brinsh over with yolk of egg, and bake untu me paste is done.

Ple, Yeal and Ham.—Cut veal into small pleces, put a layer at the hottom of a pre-dush, and sprinkle over the meat a little pepper and salt, grated lemon-rind, powdered mace, and maced herbs. Lay over these two slices of lean ham or streaky bacon and some slices of hard-hoiled egg. Repeat alternately till the dish is full. Pour in a little meat stock; line the edge of the dush with nastry, cover with the same, and bake

dish is tull. Four in a fittle nieat stock; line the edge of the dish with pastry, cover with the same, and bake the use in a hot oven till done.

Ple, Yegethble.—Take equal quantities of carrots and turmps, one head of celery, two onions, and two ounces of dripping. Cut the vege tables in pieces about one inch long, place them in a succepan with the dripping and a small quantity of water. Season with pepper and cut to taste. Stew coults, over a slow fire and ping and a small quantity of water Scason with pepper and salt to taste. Stew gently over a slow fire, and when tender pour into a pic-dish. After cooling cover with paste and bake. This should be eaten hot.

#### PORK.

Pork Chops, Baked.—To each chop allow a small onion and a small apple. Skin the onions, slice thinly and spread over a baking-tin. Arrange the pork chops on the onions, with pepper and sait. Peel and comps. On the onions, with perper site sections. Place ore the apples, since, and put over the chops. Place a few small pieces of butter on the sliced apples, and bake in a brisk oven for half an hour.

Pork, Bolied.—Boll a piece of salt pork, allowing half an hour over. Make

half an hour to one pound and half an hour over. Make melted butter sauce, sprinkle in powdered thyme, pour over the pork, and verve.

*Pork, Leg of (Boned).—Have the bone removed from the leg, and fill up the space with forcement, composed of breadcrumbs, sage, allspice, pepper and salt, and a little onnon chopped finely. Roll it up tightly, roast gently, frothing it with butter and flour shortly before serving with apple sauce.

*Pork, Loin of, Baked.—Soak a fresh lon of pork for a week in red wine flavoured with garlic. Then hang it up in a moderately warm place to dry. When required for cooking, return it first to the winepickle for a few hours, dry it, sprinkle with chopped

sweet herbs, wrap in bay leaves, and bake with the strained pickle, and the juice of two Seville oranges.

Porridge, Wheatmeal.—Put one quart of water in a clean pan. Add to it a level teaspoonful of sait.

Bring it to the boil. Shake in gradually half a pound of wheatneal. Boil gently about ten mnutes. Str frequently. Serve hot, with cream, sugar or syrup.

#### POULTRY.

Chicken, Braised.—Put two gammon rashers at the bottom of a braising pan, lay a jointed chicken on top with a few mixed herbs, slice and place on the meat a pound of tomaloes, pour over all half a pint of milk, pound of tomaloes, pour over all failt a pint of milk, season with pepper, salt, and an onion, chopped finely, place the pan and contents, with the lid on, in a noderate oven for two hours. Take out, put the chicken and hain on a dish, and keep hot; pass the tomatoes, etc., through a sieve, put in a succepan, and boil up, thicken with flour and milk, and str in a piece of butter the size of a walnut, pour over the chicken,

Chicken Pie. Put a few slices of lean ham or bacon at the bottom of a pie-dish, and on this lay the bacou at the bottom of a pie-min, and on this lay the chicken cut into neat joints; season with pepper, salt, chopped mushrooms, parsley, and a little shallot finely minced. Cover with another layer of ham, fill the dish with white stock, and put in the hard boiled yolks of six eggs. Cover with puff paste, and bake for three-quarters of an hour.

Chicken, Roast.—Truss and roast the chicken (or fow) for three-quarters of an hour or more, according to size, having first covered the breast with buttered paper. Ten innutes before serving up dredge with fine flour and baste well. Send to table with good brown gravy. Bread, oyster, egg, or mustroom sauce go equally well with roastiowl.

Chicken Sauté.—Put cut-up joints of chicken into a saucepan with an ounce of butter, lay the lid into a saucepan with an ounce of butter, buy the life of an and left if fry, tossing the saucepan frequently to prevent burning. When brown aid two onsons that have been sheef and fried, four tables, soonfuls of tomato sauce, half a pint of brown gravy, some small button mushrooms cut in halves, chopped parsley, mixed herbs, and soasoning. Keep the id on the saucepun, and let the whole gently siminer for about an Serve hot.

Duck, Roast .- Stuff with sage and onion seasoning, and baste well before a bre k are, dredging with flour a little before the rousing is done, to make them plump; send to the table the moment the steam draws towards the fire, with brown gravy found the dish, but not over the birds. Green persure appropriately served with roast duck. If a pair are masted together, the stuffing may be omitted from one of the birds as

some people dislike it.

some people distact it.

Goose, Roast,—Into the bird stuff and secure sage and onions, and baste before a brisk fire for about an hour and a half, according to size. Serve before the breast falls, with a tureen of gravy made from the giblets, very little being placed in the dish. Note apple sauce should be sent to table with goose. Geese are a good deal exten at Christmas, but the birds are best at Michaelmas

birds are best at Michelmas
Turkey, Bolled.—Put one pint of milk in a
stevpan with the same of water, bod up, then place in
a small turkey with two blades of mace, one onnon
peeled, and clowes; put the hd securely on and gently
boil, allowing half an hour to each pound of turkey if
the bird be young, and bonger if at all old. Lift the
bird out, thicken the hquor with roux, strain and pour

over the turkey.

Turkey. Boned.—Cut down to the backbone, and with a sharp, than knife work all the flesh and skin and with a sharp, timb knite we've all the field and skin carefully away from the bones, and remove the latter. Next, bone legs and wings in the same way, taking away as many snews as possible. Have ready about two or three pounds of sausage mett, according to the cize of the turkey; serson it and spread over the inside of the bird. Take some slices of lean han or trongue, and lay them lengthwise, and a little veal stuffing. Roll up the bird with sausage-meat, etc., folded well inside; tie up tightly in a pudding-cloth.

Simmer gently for about two hours according to size. Untie and press; trim the ends, and brush over with

glaze.

Turkey, Rosat.—Fasten buttered paper over the breast of the bird, previously prepared for cooking, place it before a good roasting fire, some distance away at first, gradually drawing nearer, basting carefully all through the cooking, which should occupy two hours for a ten-pound turkey, and less for one smaller. Dredge lightly with flour a quarter of an hour before the roasting is complete, basting with fresh butter at the finish. May be stuffed with sausage or chestmit forcemeat, and served garnished with forcemeat balls. Good browned nork or heef sausages may he lated Good browned pork or beef sausages may be laid round the dish, and brown gravy and bread sauce sent to table with it in turents. The stuffing of the bird should be carefully done, and the forcement well astened in to secure fine flavour and a good appearance on serving.

#### PRESERVES.

#### (See also Jam and Marmalade.)

Preserved Cranberries. - Dissolve threequarters of a pound of sugar in halfa pint of water.

Add, on bringing to the buil, a pound of cranberriac
which should not he over two inches deep in the preserving pau. Boil until the skins break. Remove
them with a straining spoon to a deep dish. The syrup
should buil a few minutes longer, and then be poured

Preserved Damsons .- Put the damsons into clean, dry, wide-necked bottles, sprinkle a little white granulated sugar in each bottle, and stand them in a saucepan, with clean cooking doths between to keep them from jolting against each other. Pour in each bottle cold water to come half-way up, boil for twenty-muntes, leave them in the water until quite cold, ther tie air-tight cover over the top of each.

#### PUDDINGS, SAYOURY.

Pudding, Oyster.—Stew a score of oysters very gradually, strain and halve these, and put into \$\mathbb{R}\$ bows where are already mixed breadcrumbs, salt, pepper, and a little cream and two oggs.

and a little cayenne. Add a little cream and two oggs. Steam in a basin to a mour, serve with white sauce. • Pitdding. Savoury.—Half a pound of rice quarter of a pound of brown breadcrambs, two ounces of buttor, two tablespoundists of minced parsley, one teaspooned of dried herbs, grated nutring, pepper and salt, half a pint of melted butter and capers. But the rice until tender, dr. a and dry it, then max with the rice until i-nord, or, and dry if, tren mix with the meticd butter, parly, herly, seasoning, and bread-crumbs, before it has become quite cold. Form into rolls about twice the thickness of an ordneys susage, to them in floured choths, and place in boding water. After boning ball an louts, turn out of the cloths on to a hot thish, pouring ofer all a sauce made of one ounce of butter, in if an ounce of flour, and half a pint of milk boiled together. Capers may be added to

Pudding, Steak and Kidney.—Line a basin with snet and flour crust. Cut up the steak and the kidney, and place a layer at the bottom of the basin. addrey, and place a layer at the bottom of the basin and season this, continuing these layers of steak and kidney, and seconing with the basin is full. Pour in a fittle water, and then cover the top with crust, pressing the clusts together to prevent the gravy pressing the clusts together to prevent the gravy pressing in his in a cloth and both for two hours to four hours, according to the size of the pudding Pour in bothing water when too much boths away.

## PUDDINGS, SWEET.

Almond Pudding.—Six eggs, eight ounces of caster sugur, eight ounces of ground almonds (one bitter and the rest sweet), and a few drops of orange-flower water. Beat whites and yolks separately, then whisk them together, and stiring radually the sugar and ground almonds. Beat for twenty minutes, then pour the insture into shallow greased ple-dishes, and bake in rederate over in moderate oven

Apple Pudding.—Put two pounds of cut apples into a stewpan with cloves, the thin and of half a

lemon and quarter pound of loaf sugar. Add a little water and pulp over gentle heat. Line a pie-dish with this slices of stale spoing cake, and a little layer of the apple mixture, first removing cloves and peel, and continue these layers until the dish is full. Put a tea-spoonful of arrowroot into a basin. Mix it to a thin paste with milk. Put the remainder of a pint to boil, and pour it upon the arrowroot. Return the mixture to the saucepan, with lemon peel and six lumps of load signar. Six continually until it has boiled for three minutes. Then strain the nixture upon the yolks of two well-beaten eggs, and pour the custard upon the mmutes. Then strain the inixture upon the youks of two well-beaten eggs, and pour the custard upon the pudding. Leave until cold. Beat the whites of the eggs with sifted white sugar, pile it upon the pudding and bake brown.

Apple Pudding, Baked.—Put a layer of bread-crumbs in a buttered pie-dish. Then some sliced apples with two or three cloves, and most sugar. Then place more layers of each kind, leaving bread-crumbs for the top layer. Add a few lumps of butter, and bake in a moderate oven for about an hour and a

Bath Pudding.-Put six ounces of breadcrumbs BAIN FURGING.—I'ut six ounces of breadcrumbs in a basin with three ounces of butter, and one onnee of chopped suet; hol a pint of milk, and pour it on the broad, butter, and suet, mix well and let it stand till cold, then add two well-beaten eggs, sugar, nutmer, and a wineglassful of brandy. Place in a buttered ple-dish and bake for twenty innutes; to boh, put ma basin, the down, and keep steadily cooking for two

Bread Pudding.—Put in a pudding basin alternate tayers of jam and bread, pour over the whole a custard, flavour and sweeten, he it down carefully, and boil for

about half an hour.

Bread and Butter Pudding.—Butter a pie-dish and fill it with milk. Cut three slices about a quarter of an inch thick from a stale loaf, discard the crust, butter it on both sides, and put it in the cold milk in the pie-dish. Sook for three-quarters of an hour, then beet two eggs in a basin with a tables conful of sugar, a little grated nuture or cinamon. Stir the eggs well into the milk, sprinkle a few sultanas or currants over the bread. Bake in a quick oven for half an hour. Cardinal Pudding.—Place a chocolate cake in a

Cardinal Pudding.—Place a chocolate cake in a glass dish, and with a two-inch cutter take a circle out of the middle. Pour a wineglassial of brandy over the cake. Grate six coinces of chocolate, and put it in a stewpan with a pint of holed cream, any coinces of sugar, and the yolks of cight eggs. Sur the cream over the fire until thick, and two omices of sugar, and the yolks of cight eggs. Sur the cream over the fire until thick, and two omices of sugar, and the top and sides with candled fruit.

Coonanut Pudding.—Mix a quarter of a pound of desicrates coconut with twelve ounces of bread-crumbs and two ounces of butter; add three ounces of sugar and grated leuton rand, stip in a large cuptin of milk, and steam in a lowl from two to three hours. An egg can be added if desired.

College Pudding.—Butter six cups. Boil up

College Pudding.-Butter six cups. Boil up about the third of a pint of milk and pour it over half a pound of fine crimibs; add an ounce of butter, three ounces of currants, one onnce of candied peel, two ounces of brown sugar, a little grated nutmeg, and three well-heaten eggs. Put into cups, and bake in a

moderate oven.

Cornflour Pudding.—Two tablespoonfuls of comflow, one and a half junts of milk, one tablespoon of caster sugar, one erg. Mix the comflow into a smooth paste with a luttle cold milk; but the rest of the milk, and pour it boiling on the paste; stir in the sugar and erg, and pour into a ple-dish, bake for a little over a numer of an hear. er a quarter of an hour.

over a quarter of an hour.

Curpant Dumplings.—Put half a pound of flour on the pastehoard with three ounces of dripping.

Chop the dripping well with the flour, put it in a dry basin, and mix in a teacupful of cleaned currants, two tablespoonfuls of sugar, and a little grated cinnamon. Four enough cold water into the mixture to make it into a compact mass. The the pudding, made up into a round ball with well-floured hands, tightly into a cloth, put at once into a saucepan half full of boiling water, and boil steadily for ninety ninutes.

water, and boil steadily for ninety minutes.

Custard Pudding, Boiled.—Break three eggs

into a basin, beat them well, add a heaped teaspoonful of sugar, the grated rind of a lemon, and stir in a breakfastcupful and a half of milk. Butter this pudding-basin, pour in the mixture, tie a pudding-cloth on and boil three-quarters of an hour.

Fig Pudding.—Mix together half a pound of breadcrumbs, a quarter of a pound of chopped suet, same quantity of brown sugar, half a pound of chopped figs, two eggs and a cupful of milk. Steam in a buttered basin for three hours.

Gooseberry and Rioe Pudding.—Put a shallowlyer of green gooseberres into a buttered pie-dish. Scatter sugar and a little grated lemon peel over it, then a thick layer of boiled rice, and then further layers. Sift breadcrumbs over the top, with a little butter on them and bake in a moderate oven, until the butter on them and bake in a moderate oven, until the frut is done.

Grossberry Pudding, Baked.—Place a quart of gooseberries in a saucepan with half a pound of most sugar. Boil until the berries form a soft pulp. Then beat into them three eggs, one tablespoonful of butter, one breakfastcupful of breadcrumbs. Put into a buttered pieckish, and bake for thirty minutes. Marmalade Pudding.—Half a pound of four quarter pound of suct, two eggs well beaten, three tablespoonfuls of marmalade, and a little sugar. Mixell, and boil three hours in a buttered basin. Marmalade Pudding, Baked.—Line the sides of a pie dish with paste, and cover the bottom of the dish with marmalade. Beat up two eggs with half a put of milk, add a cupful of bread crumbs, and grated leman peel. Pour this over the marmalade, and bake for three-quarters of an hour. Serve hot,

leman peel. Pour this over the marmalade, and bake for three-quarters of an hour. Serve hot, **Norfolk Dumplings.**—Take one pound of flour, two or three teaspoons of baking powder, a quarter of a pound of butter or drupping, and plenty of currants. Rub the butter into the flour, mux with a little water into dough, then work with the hands into dumplings, and buil twenty minutes.

and boil twenty minute

Plain Plum Pudding.—Pour half a pint of milk yer one pound of fine bread crumbs, and let them lie over one pound or me break crumbs, and let them me half an hour; then beat in a quarter of a pound of brown sugar, quarter of a pound of suest, half a pound of rasms stoned and chopped, half a teaspoonful of grated lenon peel, beat all up well with three eggs, put in a buttered bism, and houl over four hours.

Plum Pudding.—Mix together a pound each of stoned rasins currents subtains univers need bread.

stoned raisins, currants, sultanas, mixed peel, bread-crumbs, and chopped suet. Add a quarter of a pound of flour, a dessertspoonful of mixed spice, two ounces of chopped almonds, four eggs, and sufficient milk to moisten. Stir all well together, and put into buttered basins. The down with pudding-cloths, and boil for six basins. Tie d to eight hours

Sago Pudding.—Wash a teacupful and a half of small sago put it in a dish with a pint and a half of maik, a table-poonful of sugar and a pinch of sait. Lot it stand for half an hour, then place in a moderate oven for an hour and a half without moving or stirring it.

Rabbit Brawn .- Take the meat from a cold boiled raibbit and half a pound of cooked bacon. Cut it into tmy squares. Butter a brawn glass or tin, put in the meat with two chopped hard-boiled eggs, with seasoning of salt and pepper. Take sufficient stock to fill the mould, dissolve in it enough gelatine, according to the size of the mould, it onake the stock a thickley before the cook. Pour the stock over the rabbit, and

peny when court. Four the stock over the rathit, and put in a cold place until set.

Rabbit, Curried.—Slice two or three onions and fry brown in butter, then fry the joints of the rabbit, take them out and add a good curry sauce to half a pint of stock, and stew the rabbit till tender. Serve with bolled rice.

with bolled rice.

Rice, Fried Egg and.—Parboll some nicely washed rice, simmer till cooked in good stock or gravy, with half a teaspoonful of curry powder, cayenne, salt, and a squeeze of lemon julce. Set on a bot dish with fried eggs on the top.

Rice Pudding. (See also Puddings, Eweet.)—Put a teacupful of Java rice with a quart of milk into a pie-dish with four lumps of sugar. Bake in a very slow oven for an hour.

Rice Pudding with Currants.—Wash half a

pound of rice, tie in a cloth, allowing room for swelling, and put into a saucepan of cold water, let it boil one hour, then take up, unite, stir in half a pound of currants and tie up again rather tight, and boil for another hour.

boil for another nour.

Rice, Bayoury.—Parboil rice, drain, put into a sauté-pan with a table-poonful of salad oil, and fry a light brown. Add a large table-poonful of tomito sauce, season with salt and grated cheese. Cut savoury sausages into slices, lay a little of the rice on each slice, and serve with that dry biscuits

Rissoles, Beef .- To each pound of cold roast beef, allow three-quarters of a pound of breadcrumbs, salt and pepper to taste, a few chopped herbs, half a sair and pepper to taste, a new enopped neros, nair a teaspoon of minced leuion peel, one or two eggs, according to the quantity of meat. Mince the beef, and mix the breadcrumbs, herbs, seasoning, and leuion peel. Make all into a thick paste with one or

two eggs, divide into balls, and fry a nice brown, Rissolas, Fish.—To any quantity of cold cooked fish, after removing the skin and bones, add a third part of grated b eadcrumbs and finely minced boiled onion, some cold melted butter, and the yolks of two onion, some cold melted butter, and the yolks of two eggs; season with pepper and salt. Make puff paste, roll it thin, and cut into squares of two inches. Place about a teaspoontial of the mince on each square, and fold over with paste. Wet the edges of the paste before closing them, that they may adhere, and try in boiling fat, first covering the rissoles with egg and crumbs. Serve dry.

Rissoles. *Ridney.—Cut three-quarters of a pound of ox kidney into shees, and try gently in butter; when cool, mince finely, also mince half a pound of cooked ham, mix with the kidney, adding two tablespoonfuls of breadcrainths, one of chopped ansiley, one of chopped mustirooms, and a finely

parsley, one of chopped mustirooms, and a finely chopped shallot, pepper and salt. Mix with a little brown sauce, and sproad on plate to cool. Shape into balls, brush over with egg, roll in fine breadcrumbs,

and fry brown.

Roux, White.—Roux is the foundation of many sauces, and can be kept for a few days, especially in winter. Melt four or five ounces of butter in a pan. and then add in by degrees as it melts an equal quantity of flour, allow these to cook together for twelve to fifteen inmutes without colouring, then place in a clean jar, and cover with a sheet of white

Roux, Brown.—This is made exactly like white roux, save that it is allowed to colour gently till it is a fawn colour, it must be cooked very slowly for at least thirty minutes, sprinkle salt, and keep it in a jar.

Salad, Banana.-Slice some ripe bauamas into a glass dish, then put a layer of oranges cut in the same way, then another layer of bananas, and oranges again.

way, then allower layer of bandlas, and ordingles again. Sprinkle with sugar, and over all squeeze the junce of a lemon. This is much liked by children Salad, Children.—Trim some cold chicken into joints. Wash, and dry a lettince, slice and put it in a joints. Wash and dry a lettince, slice and put it in a glass dish, with the pieces of chicken on the top, slice some cucumber and a beetroot round it, pour over all some salad dressing, dredge chopped egg and green

some salad dressing, dredge chopped egg and green onion on top, and serve.

Salad, Corned Beef.—Cut comed beef into nice pieces, and grate horseradish, and a small shallot finely chopped, over it. Cover with dressing, and granely

Salad, Dressing.—Yolks of two eggs, one table-spoonful of butter, one teaspoonful of mustard, a little spondial of butter, one teaspooling of initiating a suger, salt, cayenine, half a teacupful of vinegar. Mix the butter in a saucepan, mix in a teacup the mustard vinegar, salt, and cayenine, beat up the yolks of the eggs, add mixture, stirring all the time, add butter, stir until it thickens like custard, leave to cool, and thin

stir until it thickens like custard, leave to cool, and thin down with milk.

Salad, Fish.—Mix two cuptuls of cold flaked boiled fish with one of chopped white celery, well seasoned, and turn over all two tablespoonfuls of oil, one of vinegar, and one of lemon juice. In an earthen pan put a quart of peeled and sliced tomatoes, ten drops of onion juice, salt, cloves, and a hiade of mare. Cook until the tomatoes are soft enough to press through

a sleve. Add one-third of a box of gelatine that has been soaked in one-third of a cup of cold water until dissolved. Add one and a half tablespoonfuls of vinegar, mixing thoroughly.

Balad, Potato.—Take ten or twelve cold bolled

potatoes, four tablespoonfuls of vinegar, six of salad oil, pepper, salt to taste, and a little minced parsley.

Cut the potatoes up into half-inch thickness, put into salad bowl with oil and vuegar, season with pepper

and sait, mix in parsiey, and mix thoroughly.

Salad, Winter.—The white, tender part of celery
may be chopped and served with French dressing, or
with mayonnaise, in winter salads. Hard, white
cabbage, if shaved into thin strips and soaked in cold water, also makes a good salad, or celery and cabbage.

Sandwiches, Afternoon Tea. - Finely mucced cusp radishes form the basis of these sandwiches. They should be washed and peeled, and be as young as possible. Wafer-thin slices of brown bread must be spread with whipped cream and some grated Parmesan, and the radishes added in a thick layer between them.

Sandwiches, Chesse.—Cut some thin slices of stale bread, stamp out into circles, and fry in boiling fat. Put on each circle a little grated Parmesan, mixed with a little mustard and pepper. Set in a brisk oven till the cheese dissolves, and serve hot.

Sandwiches, Chocolate.—Grate some best chocolate finely, and make it into a stiff paste with whipped cream, add a few drops of vanilla Spread on Sandwiches, Chocolate.-Grate thin bread-and-butter, and cut into fancy shapes.

Sandwiches, Hard-boiled Egg.—Hard-boiled

egg sandwiches are much improved by the addition of a little watercress, lettuce, or endive. Beetroot, watercress, celery, tomatoes, and mustard and cress make good sandwiches with egg.

Sauce, Bordelaise.—Bordelaise Sauce has Sauce Espagnole for a basis. To a gill of the latter is added two gills of Sauterne, a tablespoonful of chapped parsley, a tablespoonful of chapped shallor, and mignonette pepper. This sauce should be carefully skimmed.

Sauce, Colory.—Rub the celery, when boiled tender, through a sieve. Melt a lump of butter in a saucepan, and stir into it a table-poonful of flour. Add

practially some of the water in which the celery was boiled, end a tablespoonful of cream, and serve hot. Sauce. Cranberry.—Boil a quert of cranberries, without stirring, for ten unnutes. Add one pound of sugar, and boil till clear, which will be another twenty minutes.

minutes.

Sauce, Egg.—To make egg sauce, Gate two or three hard-boiled eggs, and add to these a little over half a pint of melted butter.

Sauce for St. wed Fruit.—Simmer half a counce of very fine sage on a pint of milk, till the grain almost disappears. Sweeten and flavour.

Sauce. Mallandara.—Put the volks of four

amost disappears. Sweeten and navour.

Sauce, Hollandaise.—Put the yolks of four
eggs in a small saucepan, mix them with an eighth of a
teaspoonful of salt, the same of grated nutmeg; set the
saucepan in a vessel of hor water on the table; add by degrees four ounces of butter in small pieces, stirring constantly. Then place the saucepai for a few minutes over the fire and stir till the sauce is smooth and thick. Add half a tablespoonful of lemon juice and half a gill of whipped cream.

Sauce, Horseradish.—Mix together two tablespoonfuls of grated horseradish a teaspoonful each of made mustard, sifted sugar, and salt, a tablespoonful of vinegar, or rather more if preferred sharp, and three

tablesponfuls of cream. Serve cold in a boat sauce.

Meltod Butter.—Melt two ounces of butter in a clean pan, then sprinkle in from one to two ounces of flour, according to the richness desired, and stir that over the fire till the butter is quite melted, and the flour over the me an the butter is quite mened, and the nour has been absorbed, so that a smooth paste is formed which can be lifted clean from the pan, then add gradually half pint of water, string this steadily the whole time; when the water is all added let it boil for ten to twelve minutes, sturring it occasionally to ensure the flour being perfectly cooked, and use. For special

occasions half ounce more butter may be added with a squeeze of lemon juice, just as the sauce is being

Sauce, Mustard.—To one cupful each of grated horse-radish and dry mustard, add a bunch of sweet horse-ragins and cry mustard, and a bunch of sweetherb chopped fine, or a large onion grated, a table-spoonful of salt, and enough cold vinegar to reduce the sauce to the consistency of ketchup.

Bauce, Tomato.—Six pounds of tomatoes, one and a half pints of vinegar, one large teapoonful of salt, one and a half ounces of guiger, four cloves of

salt, one and a half ounces of guiger, tour cloves of garlie, one teaspoonful of pepipercorns, two blades of mace, a good dust of cayenue. Put the tomatoes into a saucepan with half a pint of water, and cook them until they are soft, then rub them through a hair sieve. Next put them lack into the pan with all the other ingredients. The guiger (after bruising it), peppercorns and mace should be thed together in a peppercurs and mace should be not together in a piece of muslin. Let all boil with the lid off the pan till the sauce is as thick as good cream.

White Sauce.—This is made exactly like melted butter, save that milk is substituted for the water.

Sausages, Beel.—To two pounds of steak from the shoulder add four ounces of suet, half a pound of breadcrumbs, salt, pepper, and allspice,

Sausages, Mutton.-To one pound of riutton Satisages, autoon.—10 one pound of received files and six ounces of beef sinet, a quarter of a pound of breadcrumbs, one shallot finely miniced, a teaspoonful of salt, and a sprinking of pepper, nutney, and nace. Also two egys well beaten.

Satisages, Oxford.—Aid one and a half pounds
Satisages, Oxford.—Aid one and a half pounds

of pork, same quantity of yeal, three-quarters of a pound of beef suct, half a pound of bread steeped in water, and season with about thirty sage leaves finely chopped

and season with about unity sage with pepper, salt, and nutning, salt and nutning, Sausages, Pork.—Add two pounds of fresh pork to half a pound of bread, a teaspoonful of salt, a quarter of a teaspoonful of powdered nutner, and twenty finely-many leaves. Sprinkle with pepper. When chopped sage leaves. Sprinkle with pepper. When the meat is minced, add it to the bread scalded and

squeszed dry, or instead form a paste by the addition of two well-beaten eggs.

Bausages, To Cook.—To fry sausages some little skill is required, or the skin will burst. All sausages should have the skin pri ked in several places with a snotute nave the Son prince in several patters with sheated, but the chief point is to apply the heat slowly, sausages are sometimes first rolled in four or fine oatmeal, so that they are thickly custed before they are fried. Fried sausages are you exceed to a mount of the pattern of the son the same state. of stewed red cabbage, stewed savoy, mushed potatoes, or fried onions.

#### SAYOURIES.

Beef Toast .- Mince cold roast beef finely, add pepper and salt, and put into a steepen with a little good gravy. Thicken it with a small piece of butter rolled in flour. Fry the bread, and spread the immee incely and evenly over it.

Egg Toast.—I oast a piece of bread on one side only, and butter it while hot on the sale that is not

toasted. Over this spread a well-beaten egg, flavoured delicately with pepper and salt. Heat this gently before the fire.

Fish, Sayoury.--Free the remuns of cold beiled fish from skin and bones, and stir the flakes into oyster sauce, or melted butter. Season with pepper and salt, add a squeeze of lemon, and make quite hot. On a hot dish pile up some mashed potato, and leave a space in the centre. Fill up with the fish mixture, sprinkle over

the centre. Fill up with the fish mixture, sprinkle over finely-chopped parsley, and serve hot mode Oppters.—Itoil a cal's sweetbradt in salted water. Wash some oyser sliels in water, and on each lay a little finely-minced herring. Cut the sweetbrad into small pieces, and dip them in seasoned breadcrumbs. Lay each piece in a shell. Sprinkle crumbs and a little herring over them. Put a little butter on each, and brown before the fire.

each, and brown neture the life.

Sawoury Toassis,—These can be made of the remains of any cold roast game or fish, which should be carefully freed from the bones, and pounded with a little butter to a stiff paste. The skin and bones should be made into a good grayy, which mixed with the

pounded meat makes a thick purée. Make this very hot, and spread it on rounds of fried toat. Sprinkle with pepper and chopped parsley, and serve. Bheap's Haad and Trotters.—Take out the brains and rub the head and dret with them, and leave brains and ruly the needs and neet with their, and sewer them overnight. Next morning put the head into a saucepan with cold water to cover it. Let it come to a boil, draw away from the fire and leave it for about half an hour. Next scrape it and wash it again. Put it on in cold water, boil, skin well and conk graftly for two hours. Scrape two carrots, peel a turnip, cut them in quarters, add them and boil gently for another hour. Put the head and trotters in a large dish with the vegetables round and a little of the liquor, and serve.

Scotch Scones.-Rub one pound of flour into two ounces of good butter till smooth, and then mix into it two ounces of caster sugar, and half an ounce of cream of tartar; dissolve a quarter of an ounce of baking powder in half a pint of milk, and mix it into a light dough, roll it out about an inch thick on a floured board, and cut it up into shapes, put them on a floured tin and bake in a moderate oven for a quarter of an

Scotch Scones (Gladle).—Mix half a pound of well-sifted flour with half a cospoonful each of carbonate of soils, cream of tariar, a pinch of salt, and a tea-spoonful of singar. Stir all together and rule in an our co-of butter, make a soit dough with buttermilk, roll out the dough, cut into small rounds with a share cutter, heat the grade, sprinkle with flour, and place the scones on, taking care they do not touch, When well risen, and done on one sade, turn once, and finish

baking.

Scotch Shortbread.—Lay a balf pound of flour a quarter pound of granulated sugar, and a quarter paund of salt butter separately on a baking board Pour a dessertspoonful of water over the sugar and work the butter into that Then add the flour and work into a firm dough Cut into halves. Make two square cakes about half an inch thick. Press the edges with inger and thumb, and the centre with a fork, and bake on a fat tin till a delicate brown shade

shade.

Souffié, Weal.—Put a tablespoonful of butter in a saucepan, and when melted stir in a tablespoonful of four. Season with cayetine pepper, nutmeg, anchovy sauce, and salt. Pour in tall a pint of boiling milk, in which an onion has been cooked. Sir till smooth; add to it half a pint of chopped cooked veal, and heat all together. Draw the pin asale, and add the beaten yolks of two eggs. When the mixture is cooled sufficiently add the beaten whituse of the eggs. Set ma creased laking dish, adac mushrooms on it, and hake greased baking dish, place mushrooms on it, and bake in a hot oven for twenty mnutes.

#### ROUPS

Soup, A very Cheap.—Take six large mealy potators, two lecks, three ounces of crushed tapoca, one onnee of butter or dripping, a quarter of an ounce of sugar, one pint of milk, and one quart of boiling water. Six et he potatoes and lecks into boiling water, boil to a pulp, then rub through a sieve and put back into the stock. Slike in greatly the tapioca boil ten muutes, add milk and dripping, boil up and

Soup, Clear.—A clear soup looks better when a few green peas or a tew pieces of celery are added, as they increase the brilliancy of the soup, and a thick soup is greatly improved by the addition of a few small croutous, and so on. The toast looks more inviting when cut into strips or triangles, or with the corners neatly cut off if served in whole slices.

Soup, Green Pea.-Soak one pound of dried reen peas in cold water for twenty-four hours. Place green peas in cold water for twenty-lour nours. Place them in a saurepan with two quarts of cold water, one large or two small onions, one head of celery and an ounce of dripping. Boil all together until the peas are quite tender. Pass the soup through a wire sieve. Return it to the saucepan, add a gill of milk, pepper and salt to taste. Boil and serve.

Soup, Hare.—Pick from the remains of a jugged hare the nicest pieces of meat, and cut into dice to

add to the soup later. Put the bones left into a stew-pan, with one large onion stuck with cloves, one carrot cut into slices, and two or three leaves of celvy cut into inch lengths, also a slice of stale white hread without crust. Pour over about three pints of stock and allow to simmer gently until the vegetables are quite tender. Strain, and rub as much of the vege-tables through the sieve as possible, then return the soup to the stewpan and boil up. Thicken with browned four, adding a wineglassiul of port wine, a tablespoonful of red cuttant jelly, and a squeeze of lemon-ruice.

Soup, Haricot .- Put a pint of small haricot beans to soak in cold water overnight, drain them and put them in a saucepan with a knee Spanish onion roughly chopined, two omices of fresh butter, salt and pepper, and two quarts of cold water, and look gently until the beans are quite soft, after which has the whole beans are quite soft, after which pass the whole through a fine wire sive, rubbing the pub through patiently with the back of a wooden spoon, and mostening it frequently with a little of the bound; then return the pure to the save, pan, add about a put and a half of hot milk, and a large tal lespoonful of chopped parsley, hung to the bad egan, and serve.

Soup, Lentil.—Both up three purts of white stock, add a quarter of a pound of lentile, a head of eclery, three omons, carrot and turing, cut up, a little mace, thyme, parsley, and two bay leaves. Both and irrun. Add a half plat of milk, with an ounce of flour. Stron the yolks of two eggs, a piece of butter, and serve, hot.

the yolks of two eggs, a neete of butter, and serve hot.

Soup, Mock Turtle.— Mock turtle soup should be flavoured with a bouquet of sweet herbs, conons,

carrots, peppercorns, and salt.

Soup, Mulligatawny.—Chop and fry in batter a quarter of a pound of lean ham, three ounces each of carrot, on on, and apple. Add three tablespoonful of curry powder and the same quantity of flour, and the anticlear, a little lost, and the flour, and the quantity of flour, and the quarts of bone stock, and simmer all together for an hour and a half. Strain, return to the stewpan, and make thoroughly hot again, adding lemon-junce and salt. Cut some meat from a cooked fowl, or pieces of cooked white his will do as well, lay these m a tureen and pour the hot soup over Soup, Mushroom.—Cut one and a half pounds of

mushrooms into square-shaped pieces, put them into saverpan with a put of good stock, and holl for a fix immutes, or until tender. Add a see soming of salt and pepper, pour in a pint of inflict stri in a piece of butter the size of a walnut, thicken with an owroot, and serve

as hot as possible

Soup, Ox-tail .- Put into a stewpan with an onion, a carrot, and sovement with an onion, a carrot, and sovement with a quart of water and shumer very gently for four or five hours. Then strain off the leauer, skim, and se tool, keeping it hot. Mix a table, spoonful of four with a little cold water in the stewpan, our the strained liquor to this, add meat and vegetshles, let it all boil up once, then pour into tureen.

Siles, let it all find up once, then pour into turcen.

Soup, Oysters.—iake a quart of oysters, two ounces of butter, one quart of milk, half a pint of water, pepper, salt. When near booling, pour in the milk, stirring all the time. Season and let the soup get just to boiling point. Put in the oysters and let them stew five minutes. Then put in the lutter and

Soup, Pea-.—Stew a quart of split peas, soaked overnight, in four quart of good beef broth, for an hour. Pass through a sieve, sesson to taste, and heat again. A little celery and other surestite and heat

again. A little colery and other suitable vegetables will flavour and improve the soup, and bacon or veal may be cooked with it Powdered day munt should be sprinkled in before serving.

Boup, Tomato.—I we pounds of tomatoes, two courses of bacon, one onnee of dripping, one ounce of sago, one carrot, one onnee of dripping, one ounce of sago, one carrot, one onnee of dripping, one ounce of sago, one carrot, one onnee of sago, and herbys sait and pepper. Cut the bacon into small lists, and fry it in the dripping for a tew minutes. Wash and prepare the vegetables and cut them up into small dice; fry them in the dripping for about ten immutes; next since and add the tomatoes, add also the stock and herbs. Put the life on the pan, and cook the contents till they are tender, then rub them all through a sieve; put the

soup back into the pan, bring it to the boil, then sprinkle in the sago. Let the soup boil till the sago is quite clear. Season the soup nicely with salt, pepper, and a dust of caster sugar.

Soup, Vagetable—Peel, wash and cut up six potators, three tunings two carrots, two onions, and one small head of celery. Stew all gently for two and a half hours; stram, add pepper and salt, and a little sauce of ketchus it preferred. sauce or ketchup it preferred.

#### STEWS.

Stew, Beef Kidney.—Slice one pound of kidney, scann and flour. When these are fried sufficiently, take out, and make a gravy in the pan with butter, flour, pepper, sait, mixed herbs, and water. A little muchroom &c topu is a nice arbitrate.

Stew. Hot-Pot.-(at one pound of buttock Stew, Hoi-Pot.—(in one pound of buttock steak into pieces about three includes long and wide: sprinkle those well with peopler and salt. Butter a pudding basin and pu in a layer of raw potato peeded and can in silver, one man sliced, a traspondul of finally-choiped parsley, then a layer of seasoned steak, then petato, onion parsley, and stak until the basin is full. Pour over a breakfastcuptul of boding water, cover the top with an extra thick layer of sliced potato, put a plate that will stand the heat of the oven on top, and byte in a let over for an hour and a lata!

part a plate that will stand the heat of the oven on together, and take in a lot oven for an hour and a lail.

Stew, Iright.—Two pounds of wage this freek of nutton, ten potatoes, four small onens, and nearly a pint and a half of water, pepper and salt. Take the mutton and divide it into portions, put it mot the steepan with alternate layers of sliced potatoes and comons, add the water (color and seasons) with salt and pepper. Cover the stewpan closely, and let it stew

gently until the greater part of the gravy is absorbed.

Stew. Rabbit.—Cut a young rabbit that has been soaked for haif an hour into joints, and stew for an hour in milk, with a little butter, three or four chopped onions, and a bade of mace. Thicken with flour and

season

Stew, Scotch Hotch-Potch.—Prepare one quart of mixed vegetables in equal quantities, carrots, turnaps, cell ry, omons, sprigs of couliflower, and a gill of dried neas, and add three quarts of water in which hatton has been boiled. When boiled tender, add a few matton chops freed from fat, pepper, sait to taste, and it lump of sugar. The peas will require to be season to complete. Stewed Steak.-A pound and a half of beef-

steal, two ocion, stuck with cloves, a glass of wine, pepper and salt. (at the steak into slices, roll them and arrange them mastone jar. Add ontops and cloves, a glass of wine, with pepper and salt. Cover tightly, place in pan or boning water, and cook gently.

Stuffing for Poultry and Pork .- Peel and cut six onions into quarters, boil usual half-cooked. Drain and chop finely, adding a piece of butter and an equal quantity of breadcrumbs, one good sized tea-spoonful of powdered sage, a small quantity of chopped

spoonful of powderred sage, a small quantity of chopped parsley, a fit and pepper to taste, and a little sagar. Mrx thoroughly

Stuffing (Mushroom) for Wegetables.—Add a small cupid of chopped mushrooms to a similar quantity of fine breach runils, one tablespoonful of finely chopped parsley, a dust of powdered thyme, a punch of leunorized, and the smallest portion of omon. Mrx all thoroughly, then fry in boiling fat, and use as a staffing for marrow, tomatoes, or large omons.

Sweetbreads. Dainty.—Fry about three Spanish omors in batter with some small squares of bacon. Add balf a pint of stock and thicken with four Squeeze in a little lenon juice, and add two sweetbreaks. Previously saided in salted water,

with noir Squeeze in a little child jude; and water, blanched, skimed, and sheed. Let all this summer for an hour, stirring occasionally. Serve hot on toast.

#### SWEETS.

Apple Snow.—Stew a few nice apples, pecked and cored, with a few cloves. Sweeten, and add a httle lemon juice and grated rind. Beat the whites of

two eggs into a stiff froth, and lay on the top of the apple pulp. A little coloured jelly may be spread around the sides.

Chocolate Caramels.—Put one cup each of brown sugar, treacle, and milk, and one tablespoonful of giverine into a kettle and boil dast. When nearly done and one cup of grated descriptions. done add one cup of grated chocolate, and test by dropping a little into cold water. When done pour into buttered pans and cut into squares.

into buttered pans and cut into squares.

Chocolate Wafera.—One teacup of brown sugar, same quantity of granulated sugar, same of butter, one egg, one cup of grated chocolate, vanilla essence, and a cup and a half of flour. Mix all to a dough with the milk and egg beaten well; roll out very thin on a floured board, cut into rounds, and bake quickly.

Devonshire Junket.—Heat one pint of fresh milk to the temperature of new milk. Add one teaspoonful of essence of rennet, a wineglassful of brandy, a tablespoonful of caster sugar, and a teaspoonful of ground cinnamon. Leave in a cool place to set.

Spread with clotted cream.

Gooseberry Chaplotts.—Butter a plain mould

Gooseberry Charlotte.—Butter a plain mould well; then line it closely with sponge flugers cut in even lengths and fitted closely into the mould. Have ready some gooseberry pulp made as for gooseberry cream and half an ounce of gelatine dissolved in a little hot milk; pour all into the mould, keep in a cool place

till set, then turn into a glass dish.

Googabarry Fool.—Put a quart of green gooseberries into a saucepan with a little water and about half a pound of sugar; let it boil until the fruit is quite tender and a pulp, beat it through a coarse sieve.

Then add gradually one pint of cream, put it on a
piece of ice, and stir it every now and then until cool.

Lemon Cheese. 1 b. of butter, r lb. of load sugar, the rind and juice of three lemons. Put all in stewpon, after grating the peel and straining juice. Keep stirring over heat until sugar dissolved, and it begins to thicken; when of the consistency of honey it is doue.

Trice, A Nice Way to Cook.—Wash two pounds of tripe carefully in cold water, and dry in a cloth. Put it into a stew-pan, cover with equal parts of milk and water, add two onions and a bunch of parsley, and simmer for an hour. Rub one ounce butter smoothly with a little flour, moisten with a quarter of a pint of cream, and stir it into the sauce. Add the thin rind of half a lemon, a little peper and

Add the thin rind of half a lemon, a little pepper and salt, then simmer for another hour, and serve.

Yeal Chops.—Cut some neck chops, saw away the chine bone and cut off all gristle and skin; trim them very neatly. Have ready a little fat bacon, parsley, shallot, and a few mushrooms, all finely minced. Well butter some sheets of white notepaper, allowing one for each chop, sprinkle the paper well with the bacon, etc., and fold it neatly round the chops; grill over a clear fire for about a quarter of an hour, turning them once a twee.

hour, turning them once or twice.

Yeal Cutlets.—Cut about a pound of veal into neat, oval-flattened pieces, dip each in flour, and brush over with some beaten egg and roll in breadcrumbs, which have been seasoned. Fry these in very hot dripping till nicely browned. Stir four ounces of cooked spaghetti into some white sauce, and sprinkle over one and a half ounces of grated cheese.

over one and a hair ounces of grated cheese.

**Yeal, Fillet of.—Remove the bone and fill the space with forcemeat, skewer and tie with string. When it begins to roast throw a little salt over it, baste it, and dredge with flour, For stuffing, chop half a pound of suet, put in a basin with one pound of breadcrumbs, a teaspoonful of salt, a **sit pepper, thyme, parsley, and three eggs, and mix well.

#### EGETABLE COOKERY.

Beans Harloot.—These must be allowed to boil gently till they are tender, and this will take about two hours; pour off the water and stand the saucepan by the fire, shaking it every now and then to help drying. A small piece of butter, and a sprinkling of pepper and salt should be put with the beans before serving.

Brussels Sprouts.—Trim and throw the sprouts into tenid water; let them remain in for half an hour, take them out, thoroughly rinse and put them again had repid water. In a few minutes drain and throw them into boiling water, slightly salted. Boil without the lid of the saucepan until the sprouts are tender, strain them through a colander, put them into a stewpan with a little butter andsa pinch of pepper and salt, shake over the fire for four or five minutes, and serve.

Cabbage, An Idea for Cooking.—Put about the size of an egg of breadcrumbs tied in a fine cloth in with the cabinges when cooking. Cabbages cooked lake this can be used in any possible way; the bread having absorbed all bitter juices they camot harm, while they are digested quite easily. Another advantage of this style of cooking is that the breadcrumbs absorb almost all the smell which usually accompanies the cooking of cabbages.

almost all the smell which usually accompanies the cooking of cabbages. Bolled.—Nothing is so unsatisfactory as a badly boiled cabbage, and few things much nicer than one well done. Get a mre tender green cabbage of a good size and above all fresh; quarter it, and wash it well; lay it m cold water till required. Put on a nice large pot with plenty of water, and some salt. When it boils add your cabbage, getting it all under water; boil from 20 to 30 minutes; strain, and press all the water from it. Dish neatly and score across with a kinfe; while hot, add about two ounces of butter and

kinfe; while hot, add about two onnees of butter and let it melt in, sprinkle with pepper and salt.

Cauliflower, Baked,—Cut off the leaves and stalk of one or two nicely boiled cauliflowers, and arrange a few of the pieces in a ple-dish. Blend an ounce of butter with half a pint of milk and water (in equal quantities), add ore ounce of butter, and season with salt and pepper. Boil the sauce for a few minutes over the fire, then stir into it one ounce of grated cheese—Parmesan is the best. Pour half of the sauce over the layer of canliflower, put on the remaining pieces of the vegetable, then pour on the rest of the sauce. Cover the top with grated breadcruinbs and a

over the layer of canimover, but on the remaining pieces of the vegetable, then pour on the rest of the sauce. Cover the top with grated breadcrumbs and a teaspoonful of grated cheese, place a tmy bit of butter here and there, and bake in a hot oven.

Cauliflower, Bolled.—Cut off the end of the stalk of the cauliflower and give it a good rinsing under the cold water-tap, but do not leave it in water, it makes it taste rank. Have ready a sauccpan of boiling water, with plenty of salt in it; put in the cauliflower and boil gently until it can be easily pierced with a fork. Take out carefully with a spoon, on a hot dish; pour a macely made parsley and butter sauce over. Potatoes, Baked.—The most wholesome way of cooking a potato is to bake it. A small piece of the skin should be cut from the ends before baking.

Potatoes, Steamed.—Let the potatoes be well washed, but not pared, and put into a steamer when the water boils in the saucepan beneath. They will take about three-quarters of an hour to cook, and should be taken up a soon as done, or they become

should be taken up as soon as done, or they become watery

Seakale, To Cook.-Seakale must be allowed to stand in salted water for at least an hour before cooking

stand in salted water for at least an nour neuroe cooking it. Well cleanse it, and the it up neatly in small bundles. Plunge it into boiling water containing salt and the Junce of a lemon. Boil quickly for twenty minutes.

Tomatoes, Baked.—Scald and peel a sufficient quantity of smooth, round tonatioes; put into a deep earthenware dish and sprinkle plentifully with salt and pepper; have a teacupful or more, according to the quantity of tomatoes, of fine emcker crumbs and spread over the top. Bake in a quick oven from thirty to forty minutes. Drop a few lumps of butter on to the

to nory innutes. Drop a lew innutes to control to tory innutes.

Tomatoes, Fried.—Cut round solid green tomatoes in rather thick slices without peeling, also tomatoes in rather thick slices without peeling, also some tart, firm apples. Have some pork dripping or olive oil hot in a good-sized frying pan, roll the alices in batter or four seasoned with salt and pepper, and fry a golden brown on either side. Yol-au-Yent. (See "Gullnary Tarms" in "Cookery Hints.")

# PEARS DIGTIONARY



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## Pears'. Dictionary of Health

### INTRODUCTION.

By Andrew Wilson, Ph.D., M.B., F.R.S.E., F.L.S. · (Lecturer on Physiology and Health to the George Combe Trust, &c.),

### and ROBERT BELL, M.D., F.R.P.S.G.

This Dictionary of Hygiene" should serve a useful purpose, in that it presents, in a handy and popular form, a large amount of information regarding the preservation of health and the prevention of disease. A certain amount of medical information has likewise been included, so as to familiarise the reader with the meaning of medical terms, and to assist him in the comprehension of the principles of treatment. Such knowledge is the more likely to induce people to send for a medical man at once in cases in which professional assistance is required. The various subjects have been revised and brought up to date as efficiently as possible. Specially useful should be found the many references to drugs and medicines, and to the treatment of accidents and emergencies. All literature of this kind should be commended, because its diffusion must aid in the better appreciation of the laws of health, and in the advance of that opinion which teaches that only by observance of these laws is happiness to be secured.

As health is the first necessity of humankind, without which life's pleasures and successes are unattenable, it is of extreme importance that people should know the main features and functions of their physical construction, and at the same time be informed regarding the causes of disease, and also possess such a practical acquaintance with every-day remedies as will serve to keep them in the way of health. Many a doctor's bill has been saved by a little knowledge of how to handle common ailments and prevent them from developing into more serious troubles. In the same way, it is advantageous to know something of the nature and treatment of diseases generally, so that in the preliminary stages of illness such measures may be taken as will be helpful to the surgeon or the physician, when he has to be called in. Thousands of lives are sacrificed every year for the lack of this little knowledge. The scientific study of medicine is of course beyond the attainment of all but those who devote themselves to it as a profession, but it is within the power of almost anyone to gain sufficient knowledge of the subject for ordinary purposes. This Dictionary of Health aims at supplying such information, and it is presented in alphabetical form as the easiest for reference. Incidentally, all medical terms usually employed in the denomination and treatment of ordinary ailments are briefly explained.

**Abdominal Injuries** may proceed from internal injuries, occasioning collapse and dangerous hemorrhage. Fut the patient to bed and apply ice, emptying the bladder, and administering brandy to combat immediate collapse, pending the arrival of medical assistance.

Aberration, or "mind wandering," is a term applied in cases of partial insanity.

[child.
Ablactation. Want of milk; the weaning of a

Ablastation. Want of milk; the weaning of a Abluent, that which cleanes.
Ablution, the act of cleaning, as by waching.
Ablution, the act of cleaning, as by waching.
Abnormal, that which deviates from the ordinary condition; irregular, malformed.
Abortion, prenature expulsion of the focus, or unbour child, accidental or procured by interference.
Abrasion. Removal of skin, external or intornal, by friction or violence, as by falling or being struck or grazed by a rough or hard substance or missile curative treatment consists in cleaning by antiseptics, the most effectual for the purpose being diluted carbolic actd (of the strength of x to 20).
Abscess. A collection of purulent matter in the tissues of the body, occasioning swelling, external or internal. Should pus or "matter" be formed,

swelling and severe pain will follow; but if the abacess be charged with non-purulent fluid only, inconvenience will be the extent of the trouble. In either case it is desirable that the fluid should be got rid of, and this may be accomplished by lancing and pressure, by formentation, or by the application of hot positices and antiseptic treatment. Abscesses are frequently the result of a blow or other violence, frequently also they follow weakening illness, the most common cause being infection by certain germs.

Abacission. Catting out of the soft parts of the body, as the elimination of fleshy issue, to prevent the extension of disease; distinguished from amputation, a term which comprehends division and removal of bone also.

bone also.

bone also.

Absorbants. Vessels which absorb, such as the lacteals and lymphatics (absorbents); a term also applied in pharmacy to antacids and other chemical bodies which take up fluid.

Abstargant. Equivalent to detergent, something calculated to remove offensive matter from the body.

Acarus. Agenus of mites, including those which burrow between the cuttiel and true skin, occasioning that troublesome malady known as the itch. The

reatment aims at the destruction of the mischief-maker and its eggs, by rubbing in an oltment compounded from storax, an aromatica-resin, night and morning, afterwards washing with warm water and carbolic soap. Sulphur oimment is also used for the cure of itch. All apparel worm during the continuance of the compaint should be thoroughly disinfected, or the itch may be thereby communicated.

Acatharsia means general impurity of the blood, bringing about ulceration or other disorders.

Acarbity. Sour taste to the palate, "roughness"

Acetalay. Sour tasks of the passage of favour.

Acetabulum. The hollow in the haunch bone into which the head of the thigh bone fits.

Acetala, A salt formed by the amalgamation of acetic acid with a base. Acetic acid forms the basis

don't head to be don't head to the head to tend of the calf muscle inserted into the head one.

Anhor. A scaly eruption of the head, commonly me with in neglected children, and usually known as "scald head" (which see).

And y Sourness, as of the palate or stomach.

And y Sourness, as of the palate or stomach of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the names in this dictionary. They exert a solvent action on many of the nutrients, and are otherwise useful, as

on many of the nutrients, and are otherwise userut, as will be specified.

Actinesia. Implying loss of motion.

Acme. The crisis in disease.

Acne. An unsightly eruption of the face, chest, back and shoulders, usually the effect of impaired digestion, and most commonly troublesome between back and shoulders, usually the effect of impaired digestion, and most commonly troublesome between the ages of fifteen and twenty-one years. It is characterised frequently by diagreeable pimples rising over the giands of the skin whose proper function is the secretion of oily matter, or by "blackheads" sluggishly retained in the glands. These can be removed by pressure or squeezing, when the expressed fatty matter has the appearance of a white maggot. Among the experimental properties of a reliable antiseptic scap and plenty of water; or it may be remedied by the persistent application of a lotten prepared from glycerine, flowers of sulphur, spirits of wine, and elder-flower water applied nightly before retuing. Acons, simply means a pimple, acne rosacea, one of a rosy colour, acne punctata, a maggot-like pimple.

Acont.e.—A deadly poison, the extract of the common Monk's hood or Wolf's bane, the root of which is very like that of the horseradish in appearance. Useful, in carefully calculated dose, in the treatment of fever, neuralic, sore throat, etc.

Aconite.—A chally the second of the crime of the common for fever, neuralic, sore throat, etc.

Aconite.—A deadly poison, the extract of the common for fever, neuralic, sore throat, etc.

Aconite Acidline of the treatment of the common for fever the common for the principle of Aconite.

Aconite.
Acoria. Morbidity of the stomach.
Acoria. Morbidity of appetite for drink or food.
Acoria. Loss of colour in the blood.
Acoustia. Impaired hearing.
Acoustia. Impaired hearing.
Acoustia. Marve. The auditory nerve.
Acoromania. A form of insanity.
Acoromany. Defective power in articulating sounds.
Acoropy. Defective power in articulating sounds.
Actma Racomoga. The Black Snake Root,
modically used as a sedative tincture in the treatment
of muscular rheumatism and luminess. of muscular rheumatism and lumbago.

Acuprescure is the endeavour to arrest bleeding

AURITHMENT OF THE CHICATOR TO ATTEXT DESCRIPE BY COMPRESSING "ATTEXTS WHICH THE ACTION OF THE CHICAGO AND AURITHMENT OF THE COMPRESSING THE CHICAGO AND AURITHMENT OF THE COMPRESSING AND AURITHMENT OF THE COMPRESSING AND AURITHMENT OF THE COMPRESSING AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHICAGO AND AURITHMENT OF THE CHIC and by ansema, a pearty control or tre winters or truckets, saich loss of appetite. Generally combated by the administration of iron tonics, arsenic, etc. Adenoid. Glandiform, like a gland; also applied to growths in the mose.

Adheative Inflammation is the process resulting in the union of severed soft parts without the formation

" matter,

Adjose, Fatty. The interstices between the muscles are generally filled, especially in young persons, with cells containing adjose matter, giving plumpness to the parts.

Aeration. The action of atmospheric oxygen

upon the venous blood, converting it, on the lungs, into arterial blood. Any pulmonary aliment interferss with this essential natural process.

Legiustinaction. Adhesion of the eyelids, induced by the exudation of glutinous matter. Cured by application of a little boractic outment.

Ague is accompanied in most cases by enlargement of the spleen. In the cold stage give thin warm drinks frequently, and apply hot water bottles to the feet, placing the patent between blankets. Sponging the body with tepid water and the administration of cooling drinks should be the staple of treatment in the hot dry stage, and when sweating succeeds, rest and lukewarm draughts to assuage thirst are necessary. Qubine is one of the best preventative and curative agents in relation to ague. agents in relation to ague.

Air. It is essential that the air we breathe continually should be fresh and pure, that is uncontaminated by impurities, Impure air is deprived of contaminated by impurities, Impure air is deprived of some of its life-mantaining oxygen, and increased in the proportion of carbonic acid it carnes. Therefore lee every apartment be efficiently ventilated. "Let the blessed sunshine in"; open wide the windows to admit "the wind of God," that it may blow away impurities. Albinism. An abinormal whiteness of the skin, accompanied by light or fazen hair, and sometimes by pink coloration of the eyes.

Albungo. A disease of the cornea, or horny lens in front of the eye, manifesting itself in "white speck."

Albumen. A chief constituent of all animal bodies, presented in nearly a pure form; in the white of orar

presented in nearly a pure form in the white of egg. Therefrom the chicken during development derives nourishment, and from the albumon in the human blood the tissues are chiefly sustained.

Albuminuria. A disease of the urinary organs, denoted by the presence of free albumen, can be easily

denoted by the presence of free albumen, can be easily detected by carefully beining a small portion of the volded fluid, or by the addition of intric acid, either of which will occasion corgulation, as the white of an egg solidifies in croking. Albumintum may arise from weak heart-action or allment of the kidneys.

Alcohol. Absolute or highly rectified spirit of wine, a colouriess and faintly dofrous fluid of hot, pungent taste, constituting the characteristic compound in fermented liquors, and communicating to them their attoxicating properties. Alcohol possesses a stimulating effect upon the human frame, which may be hurtful or herwise, according to circumstances, but is not necessary to a healthy subject.

Allmentary Canal. The passage from the

Allmentary Canal. The passage from the mouth to the anus, comprising these as the terminals, and the exophagus or guillet, stomach, and intestines in between. The liver and sweetbread form parts of

in between. The iver and sweethread form parts of this system.

Alkali. A term chiefly applied to potass, soda, and ammonia, but besides these, magnessa, lime, strontia, lithia, and baryta all possessing alkalme properties. Alkaloids are bodies partally resembling alkalies, such as quinne, strychnine, and morphia.

Alopeoia. Partial baldness, the falling off of the hair of the head in patches, commonly due to a disease or to a description of nervous debulty affecting the nutrition of the hair bulbs. It may be allayed by the restoration of nervous tone, and agred by appropriate local remedies.

**Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish an extensively used purgative, acting **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish and **Aloos furnish

Aloes furnish an extensively used purgative, acting powerfully upon the colon or large bowel. Generally employed in combination with some carminative or

employed in combination with some carminative or anti-spannodic agent to prevent graping.

Alternatives. Medicines which act to the blood, changing its character, without inducing disturbances in the intestinal or urinary excretions.

Alum. A compound salt of potash and alumins in combination with sulpluric acid. A cheep and power-ful astringent, controlling hemorrhage and catarrhad discharges, and very valuable in solution as a gargie in cases of sore throat.

The bony plates forming

cases of sore throat.

Alweolar Process. The bony plates forming borders to the navs and supports to the gums. These are connected by transverse plates, dividing the space into tooth sockets, each called an alwouls.

Alwine. Pertaining to the intestines, as alvine excretions or discharges, or awine concretions, — Amaurosis. An affection of the optic nervo

inducing a species of paralysis, which renders the recognition of external objects impossible, and occasions dilation of the pupil. This partial blindness may be brought on by overworking the eye in strong light, by gout, or by excesses of any kind, and requires to be dealt with medically without delay.

**Ammonia.** A volatile alkali, the basis of smelling aits. Formerly known as hart's horn, from its being produced by burning horny and other animal matter; but now chiefly obtained from gas-tar liquor. It is very valuable medicinally as an antacid and stimulant, also as an expectorant. Frequently applied externally when there is inflammation of an internal organ or tissue, also extensively used internally in cases of bronchitis, congestion of the lungs, fainting, etc.

**Ammoniacum**. A gum of service as an antispassionalis expectorant in chronic bronchitis, and

spasnodic and expectorant in chronic bronchitis, and as a stimulant in other maladies.

Amyl Nitrite. A very powerful antispasmodic, inhaled or administered in angua pectoris, or contraction of the chest.

inhaled or administered in anguna pectoris, or contraction of the chest.

**Ensenthartic.** A medicine causing vomiting.

 the blood when impoverished. It is caused by effective or insufficient food, bad atmospheric conditions, and constpantion, and is more common in females than in males. The symptoms are a pale complexion, colouriess lips and gums, and general exaustion, accompanied by palpitation, headache, and pains in the back and left side. The patient should be adopted, including a moderate proportion of animal food. Regular action of the bowels should also be induced, and with these precautions, steed drops, or fron pills may be administered with advantage.

**Ensesthesia.** Insensibility to pain, induced by the administration of chloroform, ether, or some other agent, or may be brought about by cold.

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**Ensesthesia.** Insensibility to pain, induced by the administration of chloroform, ether, or some other agent, or may be brought about by cold.

**Ensesthesia.** Insensibility to pain, induced by the effusion of serous fluid in the membranes, inducing a condition in which piliting is possible, that is, when the articular that the impression of the finger. Usually astributable to disease of the heart or tathelys.

**Ensesthesia.** Insensibility the learn or tathelys.

**Ensesthesia.** Insensibility the pain inducing a condition in which piliting is possible, that is, when the decident of the decident of the finger. Usually astributable of classes of the heart or tathelys.

Anchilops. An abscess in the internal angle of

Anchylosis, or Ankylosis. A contraction or stiffening of the winter

Anchylosis, or Anaylosis a contaction of the ligaments of the joints.

Ancylogiossum. A contraction of the ligaments of the tongue, bruiging about the condition known as "tongue-tied," which requires surgical attention.

Aneurism. A dilated artery, a tumour caused through weakness and distension of an artery by the enclosed blood. May be occasioned by injury or disease. The most frequent seat of an aneurism is the condition after. behind the knee joint, and by far the

disease. The most frequent seat of an ancurism is the popliteal artery, behind the knee joint, and by far the most dangerous, the acrts, the mann artery coming from the heart. Ancurism requires medical treatment.

Englina. Applied usually to a spasmodic maindy affecting the heart, often of an agonising nature. Anglina membranaece is the scientific denomination of croup, and other angina discuses relating to the tonsils, the uvuls, and the throat in various ways. The most dreaded angina is that of the heart, which is manifested in spasm, occasioning a terrible struggle for breath coincidently with acute pain in the region of the heart. In attacks of angina prectors the for breath coincidently with acute pain in the region of the heart. In attacks of angine pectoris the sufferer susually exhibits all the symptoms of impending death from suffocation, and the direct cause of the seizure is usually dispendence in the case of a person subject to some one or other of the numerous forms of heart affection. Nitrite of amyl is usually administered to afford relief, either by inhalation, or as a dose in combination with minute proportions of nitroglycerine, and the effect of these powerful medicines is sometimes little less than marvellous. They reduce the tension of the blood-vessels, and thus celleve the heart's work. Mustard positices applied the cheek at the seat of pain are often helpful whilst the spasms are being combated. Fersons prone to heart

aliment of any character should be particularly attentive to digestive regularity, as a gastric upset is generally the foregranter of angina pectors.

Animation, Suspanded. That condition in which life is threatred through impeded respiration, the principle causes being drowning, strangulation, or the inhalarton of acotous gas. (See Drowning, Gas,

Asphysia.)
Ankle. The strong ligamentous bands controlling the connection with the foot with the leg at the anklejoint sometimes become sprained or over-stretched by joint sometimes become sprained or over-stretched by a false step, or slight rupture may occasionally except from a similar accident. This gives the painful condition usually spoken of as sprained ankle, the proper treatment of which is the application of a soothing yet stimulating iniment, with fiannel bandaging to restrain movement and afford support to the part.

Anodyne. A remedy which assuages pain, such as the narcotics and opates, menthol, cocaine, and belladonna are among the anodynes which act locally, antacolds. Remedies for acidity of the stomach, such as potass, soda, lime, and their carbonates.

Antacolds. A infianimatory tumour or carbonate. A dradful form of anthex may be contracted in man by contact with diseased animals or their hides, through the germ known as the anthrax bacilius entering the

by contact with diseased animals or their hides, through the germ known as the anthrax bacilius entering the skin by an abrasion or wound occasioning malignant pustule or external anthrax. This affection is known as "Woolsorters disease," germs gaining admission to the lungs of workers from hair and wool derived from anthrax-infected animals. If this shoul I have reached

the lungs of workers from hair and wool derived from anthrax-infected animals. If this should have reached the severe stage before discovery cure s rare.

Antibilious. Medicines for binous aliments.

Anticachetic. Remedies for poor blood.

Antica absolute quiet is essential in nux vomica and strychnline poisoning, and mustard and water emetic or sulphate of zinc (20 grains in water) administered. Gelatinous drinks, with alternate doese of soap-auds, are often serviceable in copperas and cobalt poisoning, and strong liquid mucilage with flour and water accompaniment may be administered where carboilc acid is the cause of mischief. Milk and white of egg, with gelatinous draughts, are beneficial in poisoning induced by mercury or its salts; ammonia abould be given in water as a first attempt to cope with prussic acid poisoning; lime-juice magnesia and soap-suds may be tried where the baneful agent is known to have been aqua-fortis, virtol, or oxalic acid; and strong salt and water should be forced down the throats of sufferers from nitrate of silver swallowing. Rat-poison or arsenic having been taken, flour and water, milk, sweet-oil, and lime-water may prove corrective; while strong alkalies such as potash infusions, ammonia, hartshorn, and cleansing lyes are best counteracted by vinegar or lemon-juice. No form of oil should be given in phosphorus poisoning. Astringent infusions, with very strong tea as a handy form thereof, together with very strong tea as a handy form thereof, together with starch-water, are often helpful in antimony or tartar emetic poisoning, or when iodine has been taken. For corresive sublimate, lead poisoning, or when locales have found their way into the stomach, large and frequent draughts of poisoning, and mustard and water emetic or sulphate of zinc (20 grains in water) administered. Gelatinous

milk or the whites of eggs may be given, and this treatment will often afford relief in sugar of lead poisoning cases. No delay should be matte in securing competent medical assistance where poisoning to the competent medical assistance where poisoning to the competent medical assistance where poisoning to the competent medical assistance where poisoning to the competent medical assistance where poisoning the competent medical assistance where poisoning the competency and the competency and the competency are competent to the competency and the competency are competent to the competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency and the competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are competency as a competency are

securing competent medical assistance where poisoning symptoms are apparent.

Antimeony. A mineral medicine formerly most extensively employed in fever cases, and still of value in the treatment of pleurisy, pneumonia, and cleest complaints generally. It produces a powerful effect upon the heart's action and has been a great deal resorted to in criminal poisoning cases.

Antipyrastic. Remedies which lower the temperature in sever.

Antipyrin. A drug in considerable demand for the relief of neuralgic and other aliments. An overdose may induce depression of the heart's action.

Antisspitia. Opposing or preventing putrefaction. The term in pharmacy comprises all those aspects which have a deterrent or destructive effect upon the micro-organisms that give rise to many diseases.

which have a deterrent or destructive effect upon the micro-organisms that give rise to many diseases. Antiseptic dressings are invaluable in the treatment of every description of wound. Indoform is much used in hospital treatment, and other antiseptics in common medical employment are carbolic acid, permanganate of potash, oil of eucalyptus, perchlorate of mercury, boracic acid, chlorine, thymol, and aristol.

Anus. The lower orifice of the intestines, controlled by a powerful sphincter muscle. The anus is most infrasurably the seat of troublesome and danger.

of mercury, boracic acid, cniorne, inymo, and another Anus. The lower orifice of the intertines, controlled by a powerful sphincter muscle. The anus is not infrequently the seat of troublesome and dangerous disease, including fistula, firsure, and prolapsus of the mucous membrane of the bowel, also of piles.

Aorta. The great artery rising from the left ventricle of the heart, and distributing the pure blood to the various arteries of the body.

Aperiant. Medicine of a laxative character. Some of the chief are castor oil, rhubarb, cruten oil, taken seams colocynth and Epsom salts.

Some or the chief are castor oil, rhubarb, cruten oil, jalap, senna, colocythi, and Epsom saits,

Aphania. Speechlessness from brain disease.

Aphonia. Dumbness loss of voice, due to paralysis of the vocal cords, or infammation of the larynx.

Aphonia. Loss of breath, suspended respiration, it may result from external causes, or be produced by lung or heart disease, and very frequently immediately

precedes death.

iung or hoart disease, and very frequently immediately precedes death.

Apoplexy. A person seized with this dictressing and dangerous diseases should be removed to a cool and efficiently ventilated apartment, and have the lecthing loosened or removed and the head keyt elevated. Cold applications slouid be made to the head immediately, and cyack-acting purgatives administered, with the addition of emetics should the stomach be known to be overloaded. The scalp may be blistered for relief, and bleeding be resorted to in case of extreme turgidity of countenance; this, however, ought to be left to the surgeon. Apoplexy manifests listelf by the person seized talling down after experiencing swere pains in the head, and becoming insensible. The face is more or less flushed, sometimes to purpleness; there is a full pulse, but usually slow. These symptoms are succeeded by vomiting and partial or complete paralysis; and there is cold perspiration and heavy stertorous breathing. This always alarming malady is generally due to congestion or rupture of some blood vessel in the brain. No stimulants must be given. Absolute rest is essential. Apoplexy may be cerebral, pulmonary or sanguineous. Appendicitise. Infammation of the curious vermiform appendix or blind sac at the junction of the larger and smaller intestine, frequently caused by the ledgment of irritant indigestible substances taken with the food into the alimentary system when it is Irregular in action through abnormal conditions. When appendicities becomes acute it is now usually made the subject of surgical operation, even to the accision of the appendix, which performs no known useful function.

excision of the appendix, which performs no known useful function.

Aptha. The thrush, a disease indicated by small states spots in the mouth, and on the throat and tongue, caused by an acid condition of the alimentary canal, common in infants, and not infrequently a precursor of death in persons of mature years. Thrush is alimented growth. Borax is a useful local application; but the candition of the stomach should be rectified.

Areus Sanliis. A pearly opacity encompassing

the cornes of the eye in aged persons, sometimes

the comes of the eye in aged persons, sometimes spoken of as "flasing,"
Areotic. Opening the pores, descriptive of medicine destined to promote perspiration. Areosi is the term applied to the interatices of the cellular issues, as also to the "halo" or dark circle surrounding the nipples of the female breast in pregnancy, Aristol. A very useful antiseptic, resembling in its effects iodoform whilst being free from the powerful odour of the latter. It should be kept away from the light to preserve its beneficent qualities.

Arnica. The Leopard's Ban, a plant the leaves and root of which afford medicament for bruises, and may be advantageously employed internally in the treatment of typhold.

Areanic. Arsonlous acid, or white oxide of this

may be advantageously employed internally in the treatment of typloid.

Arsenia. Arsenious acid, or white oxide of this metal, a very deadly polson, is, when judiciously employed, most valuable in pharmacy. It is used in the treatment of skin diseases, neuralgia, and ague Arsenic is a very volutie metal, and may produce injurious effects through the exhalation of its fumes.

Arteary. A vessel conveying pure blood from the heart to the capillaries, from whence it is returned to heart and lungs by the volins. Arterial blood, very bright red in colour, flow, in pulsations or waves, differing from venous blood by having undergone on the lungs the oxidising action of the air. From any lajured artery the blood escapes in spuris corresponding to the beats of the heart, and compression, between the heart and the wound must be made until surgical assistance has been secured. It is highly important that atterial hemorrhage should be staunched as quickly as possible, for if the artery severed be large there is great danger of bleeding to death. In the case of injury of this character occurring in the limbs a bandage should be at once twisted as tightly as possible between the wound and the heart.

Arthritis. Gout, or analogous alluents of the joints, sometimes characterised by chalky concretions, and always occasioning acute pain, spasmodic or continuous. (See Gouts.)

Associas. A species of intestinal worm, known as a round worm.

Ascaris. A species of intestinal worm, known as round worm.

Ascites. Abdominal dropsy, usually the effect of cyhausting organic disease, either of the heart, kidneys, of liver; generally relieved by surgical "tapping."

Asphyxia. When breathing has been suppressed by the inhalation of poisonous gases or by hanging or by other methods of strangulation, by apoplexy, or by syncope, artificial respiration should be promptly resorted to. The procedure is indicated under the The procedure is indicated under the resorted to. The procedure is indicated under the head of drowning, as necessary in that form of misadventure; generally it is similar in all asphyxia cases, save that the preliminary of expelling water from the lungs is of course only requisite after immersion. False teeth should be remeved, and the whole body rubber briskly, pressure being applied and withdrawn alternately both on the back and at front below the lungs. Rotate the body gently on the right side. Then let the legs and arms be bent and straightened; all the while the national value for or a couch Then left the legs and arms be bent and straightened; all the while the patient lying on the floor or a couch with the head slightly raised. The object of every endeavour is to restore circulation and breathing by assisting the inanimate body to do what it has lost the power itself to accomplish. Never relinquish these humane efforts until the spark of life has unmistable burnane efforts can be seen achieved.

field or success has been achieved.

Asthma. A spasmodic affection of the bronchial tubes, is productive of extreme difficulty in breathing. Persons subject to asthms often find themselves treety of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of th

are those containing tannin, such as oak-galls and bark, catechu and kino. Mineral astringents include alum, salts of iron, sulphates of copper, and sinc, nitrate of siver, acetates of lead, and sulphuric and other acids.

Ataxy. Irregularity in the functions of the body, rising from disease or disturbance, as of the pulse, when it becomes paroxysmal, or the gait, when it is unsteady through paralysis or from some other cause, which gives the painful condition called "Locomoto taxy." Ataxy literally signifies" want of order.

Athletic Training. Athletic exercise, induged in with moderation, is good generally, more especially to the young of both sexes, as its tendency is to increase the powers of endurance by improving the muscular system. Regular, habits and attention to dietary in connection with athletics constitute the "training" which produces "form." The best food take is plain and unfattening.

Atrophy. Wasting away general or local. General, as in consumption or incurable cancer; local in serious bowed on the extended the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the additional contents of the a

auditory Ganal. A continuance inwards of the trumpet of which the ear may be considered the mouth. It ends internally in the tympanum.

Auricle. The external ear. The term is applied also to the two upper cavities of the heart, leading to

the ventricles.

the ventructs.

Ausouttexton. Judging of the progress or existence of disease in the lungs or thorax by listening to the breathing or by the use of the stetloscope.

Axis. The second vertebra of the neck.

Bacillus. A rod-like, microscopic organism, representing a family of germs with power of multipli-

cation to an enormous extent within the human form,

thereby propagating disease.

These are micro-organisms which, upon introduction to the circulation, may produce certain specific effects. They are chiefly fungoid, but can be readily cultivated in gelatine soup and other substances in the laboratory, and are distinguishable from each other. Bacteria are often useful in removing decaying matter, as in the bacterial treatment of sewage.

matter, as in the bacterial treatment of sewere.

Baldness. Generally arises from some constitutional cause or hereditary tondency, and is immediately due to a weakening of the follicles of the hair. Its progress may sometimes be retarded by stimulating lotions.

Bandagles, for any part of the body requiring support, need careful folding and adjustment. They may be made from old linen, in strips from sheets or table clotha hannel, gauze, calico, or elastic web, as is best suited for the immediate purpose.

Barelest. The practice of allowing children to wear sands upon unstockinged feet has found increasing layour in the summer time with many head of families, both when at the seaside and in town. It

of families, both when at the seaside and in town.

of lamites, both when at the seasuse and in town. It is a commendable one. There is less dauger of cold-taking if the blood flows freely in the uncramped extremittes than when prisoned by boots

Bathing is very necessary in health and, when possible, in sickness also; for without cleanliness the functions of the body caunot be properly fulfilled, and were wasning more frequent than it is, and isfore thorough, there would certainly be less disease to deal with. There are hot, tepid, and cold baths, both with. There are liot, tepicl, and cold baths, both simple and medicated; the latter for specific curative simple and medicated; the latter for specific curative or preventative purposes, and these can be used in different ways, as the plunge, spray, shower, or sponge bath. Vapour and mineral baths are more complicated, but they are nowadays when necessary within the reach of most people. Open-air bathing is beneficial to all who do not receive therefrom too much shock, and sea baths are very pleasant in warm weather, as well as healthful. Turkish baths are usually of value to sufferers from rheumatism, but should not be adventured upon by persons subject to heart affection, except under medical advice.

Bed. For the young and healthy a firm mattress forms the best hed; for the feeble and aged, who have more difficulty in maintaining a comfortable and sufficient temperature, a softer bed is preferable.

Bedrooms ought to be efficiently ventilated night

and day to secure healthy sleep. Do not stuff up the chimpsy, which is a capital safety valve, and secure the admission of fresh air through the window sashes constantly by an arrangement which excludes draught The less of familture or other impediments there be in a bedroom the better.

a bedroom the better.

Bad-Bores should be guarded against in lingering illness; the provision of a "water-bed," or pneumatic cushlons, which compel equal pressure, being captures. When a bed-sore literatens to form, there should be frequent and gentle washing of the part with warm water, and careful drying with a soft towel, afterwards dabbing with eau-de-cologne or good whisty.

Baef. Good ox-beef is the most strengthening and animal food, wholesome, nottabling, and seelly

Bear. Good on-beef is the most strengthening of all animal food, wholesome, nourishing, and easily digested by healthy and vigorous persons.

Bea Brings should be extracted as quickly as possible, and the injured part treated by an alkali, such as bicarbonate of sods.

Belladonna. The "deadly nightshade," a plant producing a properful and poisonous appropria.

Belliagonia. The deady nightshade, a plant producing a powerful and poisonous racrotic, which has numerous uses medicinally as a soothing agent. Benzole Acid. Used medicinally and in perfumes, and present at times in the saliva and exerctions of the bladder. Obtained for pharmaceutical

purposes from gum benzole.

Biceps. A muscle having two distinct heads or origins, as the biceps of the thigh or the biceps of

the arm.

Bile. The secretion of the liver which alis in the assimilation of the fatty portions of the food. If there be defective action of the liver, then will follow a tendency to allow the biliar, products to accumulate in the system, commonly called the overflow of bile, or "a bilious attack." Construction is a frequent cause of biliousness, contributing to fæcal absorption in the lower bowel from the retained matter contaminating the blood, and giving rise to the sallow complexion of the bilious subject. Free purgation should be secured in such cases; and a sluggish liver should be stimulated by calomel, taraxcum, podophyllin, or some similar medicine. Careful dietary, little flesh food, with sufficient open-air exercise, should keep healthy persons free from bile tropble. persons free from bile trouble.

persons free from bile trouble.

Bismuth. Is a metala good deal used in cosmetics and medicinally, especially as an alleviate of dyspepsia. It is very useful as a powdered carbonate or subnitrate in heart-burn, water-brash, and may be obtained at the clienist's in lozenge form.

Bite of Dog. or other Animal. Cleanse the wound as well as possible, ligaturing tightly between the injured part and the rest of the body if possible, and cauterising should virus be suspected. This should be done with lunar caustic or any clean iron or steel article at hand rendered white hot. The wound should first be well sucked if the attacking animal's bite be venomous in any way, and the surrounding should first be well sucked if the attacking animal's bite be venomous in any way, and the surrounding fiesh ought to be promptly cut away with a sharp knife in a cave of known great danger before the cautery. As pirutous stimulant may also be given to the injured person in sufficient quantity to induce mild intoxication. This applies to snake-bite also.

Bitters. Various kinds of bitters, infused in spirit,

are made use of by many persons for the purpose of stimulating the appetite. Most of these are of vegetable extraction, derived from the gentian, orange etc. and though of some little value when applied medicually in a judicious manner, as appetisers, their belief of the description of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon

habitual use is to be deprecated.

habitual use is to be deprecated.

Bladder, A membranous bag containing fuld in animal bodies such as the urinary and gall-bladder. The former is subject to many affections, arising chiefly from cold or neglect. If over-distension be permitted, there may be rupture. Irritability of the nucous membrane of the bladder may arise from cold or a disordered condition of its fuld contents. Stone in the bladder is a frequent cause of excruciating pain in the organ, and usually requires a crushing or cutting operation for its removal. The presence of this malady soften indicated by the passing of blood after exercise, or by retention caused by the accumulated "gravel" obstructing the water-passage. A hot sitt bath will frequently afford relief; but stone in the bladder is an

ailment calling for surgical attention. Weakness of the organ, indicated by inability to retain its content frequently occurs in the young and the aged, and may be amended by the employment of suitable tonics. See also "Gall Bladders."

See also "Gall Bladder."

Blaadding. Bleeding from any wound in spurts indicates severance of an artery, and should be at once arrested by tight bandaging between the injured place and the heart, if this be possible, with the application of ice or other cold substances; the aid of a surgeon to the up the artery being obtained immediately Should external ligaturing be rendered difficult by the location of the wound a pompress should be made above as well as over it. Bleeding from a vein proceed in a continuous stream, and hierocritage of this description is sufficiently damperous when permitted to proceed for continuous stream, and nemorrnage of this description is sufficiently dangerous when permitted to proceed for any considerable time profusely. In the case of a varicose vein bandage both above and below the wound. Alum, tannin, and all astringents are good styptics or blood staunchers. Tannin, or alum, or cotton wool stuffed up the nostrils will often stop trouble-

Blister. A watery swelling under the skin; also a plaister to produce the same of set purpose, generally for the relief of internal inflammation. The best

counter-irritant for this purpose is cantharides.

Blood is a highly important medium of human and animal life. It consists of arterial blood, which has been oxygenated on the lungs; and venous blood, loaded with carbonic acid gas, and not having received loaded with carbonic acid gas, and not having received arration. Blood corpuscles or globules are white and red, the latter giving to the blood its brilliant colouring and containing iron. The red corpuscles carry oxygen to the capillaries from the lungs and bring back carbonic acid gas from the system to the lungs for expulsion. The white corpuscles wage constant war against malignant bacilli, bacteria, and disease-promoting microbes generally. The colourless fluid in which these corpuscless float is called the serum or liquor sampaints. Over three-fourths of the composition liquor sanguinis. . Over three-fourths of the composition of blood is water.

Blood is water. A painful form of dysentery, in which blood discharges accompany the fraces.

Blue Disease. Cyanosis, a dangerous form of heart trouble, in which the whole surface of the body assumes a bluish tinge.

assumes a bluish tinge.

Bine Pill. The common name of a remedy much employed for liver disorders, in connection with a less powerful purgative. It contains mercury.

Boll. A painful affection of the skin, usually incident to a low state of the general health. It is produced by a minute organism which locates itself in the hair follicle for the propagation of its species, occasioning suppuration in the immediate environment and a more or less extensive superficial pustule through and a more or less extensive superficial pustule through and a more or iess extensive supernical pustule invoga-which the puruience is discharged. An unduly irritated boil may develop into carbuncle. Boils are best lead alone to run their course, attention being turned to the improvement of the impaired condition of body they indicate; but during their continuance the eating of oranges will be found to have beneficial effect.

Bones. The bones of human form are composed

of animal and earthy matter, the latter, in maturity, much predominant, and composed mainly of phosphate of lime. Bone affords the necessary strength and solidarity. The animal portion, gelatinous, yields vitality and prevents britteness. In infancy and childhood the bones are soft, developing towards the

children are sort, developing towards the perfect condition gradually.

Borax. The biborate of sode, used as a cooling medicine, frequently in conjunction with honey or glycerize, for the mouths of children in thrush and for sore throat

sore throat.

Bothrion. A timour at the back of the eye.

Breatn. The brain is the great nerve mass enclosed, within the skull, serving as the headquarters from which the spinal nearrow and all the nerves which permeate the body take their start and governance. It is a complete and delicate organisation, and, though well fortified within the cranium, liable to sustain injury from accidental violence or by overwork. Concussion of the brain is a condition resultant from a severe blow occasioning unconsciousness without appearent organic mischief within the brain.

Breath. Breathing through the nostrils is the natural and desirable method of respiration, and perfect repose is only secured when the mouth is closed. All crooked or restrained positions render, respiration difficult. Irregular breathing denotes either an unnatural position of the body, or some impairment of the respiratory organs. The exhalation of offensive odour from the breath may arise from gum ulceration or decaying teeth, from disease of the of oftensive odour from the breath may arise from gum' ulceration or decaying teeth, from disease of the nucous membrane of the air passages, from disordered digestion, or from impurity of the blood.

Bright's Disease. Denotes an inflammatory affection of the kidneys indicated by the presence of albumen more or less excessively in the urine. The disease may be very serious, and its treatment calls for the exercise promptly of medical skull.

Bromine is an elementary substance, similar to chlorine and iodine, and can be obtained it mu bittern, the liquid residue secured after evaporating sea-water, but is now generally manufactured from the bromides obtained from crude carnalite. It forms brom des and bromates

Bronchi. The branches of the windpipe, or rami-

fications of the air tubes of the lungs.

neations of the air tubes of the lungs.

Bronchitis is an inflamed condition of the bronchial membranes. It is usually induced by cold, but may occur as a complication in the course of acute febrile attacks, such as typhoid. In the commencing stage the nuccus membrane of the bronchial tubes is often so inflamed as to occasion greaf difficulty of breathing and painful spasm. When this subsides and the secretion of inucus is resumed, this becomes sometime. so excessive as to set up more or less continuous cough-Should the inflammatory condition spread downwards through the capillary branches of the bronchi and wards through the capitlary branches of the bronchi and to the lungs, serious symptoms will speedly appervene. Relief may be obtained in many cases by the application of linseed or mustard poulitics to the chest and back, these being perintted to remain on lialf an hour at a time and renewed as necessary, the patient being kept warm in bed. Expectoration may be rendered less painful by the administration of specachus or authorical hours could be represented.

Bronchocele, or Goltre, is an enlargement of the thyroid gland, often called "Derbyshire neck." the thyroid gland, often called "Derbyshire neck." It gs commonest in district situated on mountain lime-stone, and is caused by druking over-hard water. The cysts or swellings sometimes reach large dimensions, and occasion very considerable inconvenience, though they are rarely accompanied by actual danger to life. The accumulated fluid may be drawn away from the cyst to afford local relate, and iodide of iron

syrup often proves beneficial.

Bronchos is a term signifying suppression of the voice, as the result of cold or catarrh.

Note, as the result of cold or cateffi.

Bronchotumy means incision of the larynx or trachea, made for the obviation of suffocation in quinsy, cancer, or other continuously obstructive condition of the passages. It is only resorted to as the last hope of saving life.

last hope of saving life.

Broom. A species of genista, is a common plant, the young shoots of which yield, upon boiling, an infusion useful in the treatment of dropsy, being powerful stimulants to the functions of the kidneys.

Bruises may be rendered less painful by the apptication of diluted annica, or by bathing with spirits and water, also by the use of ice. Belladonna, aconite, and opium liminents painted upon the injured part will usually afford relief, but must not be employed when the skin is broken. when the skin is broken.

Bruit signifies the sounds in the chest detected by

the stefhoscope, indicative of the presence of disease. Batho, a swelling or enlargement of certain glands arising from an internal sore, and usually tending to suppurate. May be treated as an ordinary abscess, or, if there be no suppuration, painting with iodine or, if there be no su will often afford relief.

Bulla. A large vesicle or piece of cuticle charged with serum or watery fluid, raised by blistering or burning.

Bunions are painful swellings over the joints of the toes, and particularly with regard to the great toes. They are due to inflammation of the joint capsule. Hot fomentation will afford relief, but the

removal of the cause is necessary to prevent recur-

removal of the cause a paceasary to preem returnrence.

Burns. Cover with powdered sods, and lay over,
or bind tightly with a wet linen cloth, to "take the fire
out." Next dress with white of egy or olive oil and
secure the injured part against friction. Lime water
and permanganate of potash also make soothing
dressings. Carron oil used for burns consists of equal
parts of linesed oil and lime water.

Cachetic. A deranged and vitiated condition of
the system, indicating extensive disease.

Cacoestass. An ulter of an incurable character.

Gascams. That portion of the lower bowel where
the ileum ends, a wide pouch-like vessel, generally
about two and a half inches long with the appendix
given off from it.

about two and a half inches long with the appendix given off from it.

Galoulus. A stone or hard concretion in the bladder, kidney or uncertina.

Galigo. A term applied to various diseases of the eye. Caligo entis signafes cataract; caligo humorum, blindness from defect in the humours of the eye; caligo cornea, opacity of the cornea; caligo paipe-brarum, blindness from affection of the eyelids; caligo pupiliz, obstructed pupil.

Galisthenics, as distinguished from the more stremuous gymnastics or athletic exercises, may be considered to constitute an admirable method of promoting and maintaining bodily health and vigour.

Galomel. The sub-chloride of mercury, employed in medicine for salvation and other purposes.

In medicine for salvation and other purposes.

Caloria. The heat generated by the active functions of the body, dependent upon the changes due to the digestion, assimilation, respiration and the circulation of the blood.

Camphor. A solidified essential oil, much used medically as a stimulant, obtained commercially from the Camphora officinæum.

the Campaora omicinaeum.

Camear, A scirnhous tumour, sometimes ulcerating and enlarging to an enormous size, and assuming a malignant character. Cancer is considered in many cases to be of hereditary origination. It occurs in various parts of the human body, and is much more frequent in females than males, rarely making its appearance before the age of thirty. It is only in its first stages that true cancer can be eradicated, if at all, and there for the most part by support evision.

first stages that true cancer can be eradicated, if at all, and that for the most part by surgical excision. Medical scientists are devoting much attention to the study of this terrible scourge of humanity.

Canker. Small ulcers occurring in the lips, mouth, gums, and cheeks of ill-nourished persons, chiefly children. These sores are of a gangrenous and offensive character, and require drastic surgical and antiseptic treatment [ccally, in conjunction with simulative and nutrient fletary.

Canthus. The junction or cavity at the extremity of the evelicity.

CARRINGS. The junction or cavity at the extremity of the eyelids.

Capillaries. The minute blood vessels forming the connecting links between the arterial and venous systems; Capillary iterally means "hair-like." These blood vessels are sometimes only one five-thousandth part of an inch in diameter, and differ from the smallest

blood vesses are sometimes only one two-thousandin part of an incli in diameter, and differ from the smallest arteries in having only one cost, as against the three exhibited in the nigrical system. The capillary may be observed in the whites of the eyes when blood-shot, laving become gorged with red globules.

Carbide. A combination of carbon with any other elementary body; thus steel is a carbide of iron. Carbon the Aold. A colourless, oily fluid, prepared from coal-tar, and invaluable as a decdoriser and disinfectant. It has the effect of masking all disagreeable dours and of arresting putrefaction.

Carbon. Pure charcoal, only existinglas such in the diamond naturally, is a chief constituent of all animal and vegetable bodies, from which it is separable by heat, sulphuric acid, etc. It is a powerful decdoriser and absorbent of noxious gases, and may be taken advantageously in powdered form or in biscuits by sufferers from fatulence or indigeation.

Carbonic Acid, or Carbon Dloxide is a gas produced by the amalgamation of two equivalents of

oxygen with one of carbon. Found in underground workings and deep wells, as "choks damp"; other name: "mephitic gas," "fixed atr," "afrial acid," "heavy air." A deadly potson in inhalation, but a valuable stimulant administered in the stomach in discret doses.

valuable stimulant administered in the stomach in discreet doses.

Carbunels. An inflammatory tumour or boll. A virulent superficial affection, which may develop from a simple pusule, or boll, but is invariably a sign of the general condition. This results in impaired visibly in portions of the skin, which become indurated and gangrenous. Incision and cleanating of the vitiated tissue is necessary, together with improvement of the bodly health by tonic treatment.

Cardiace. Implies something pertaining to the heart, and pharmaceutically signifies a stimulant exciting action of the stomach and consequently of the circuitary system by the heart.

Cardialgia, or Heartburm, an allment of the stomach, actusing temporary interference with the action of the heart indicated by a burning and acrid sensation both in the stomach and at the top of the guilet. (See Heartburm).

Carditis. An inflammation is generally confined to the outer distance in the stomach and at the top of the guilet. (See Heartburm) is generally confined to the outer distance in the study linking membrane of the heart itself may also become inflamed from various causes, which gives the condition called endocarditis. Both are usually the outcome of rheumatic disease, and frequently follow rheumatic fever. rheumatic fever.

come of rheumatic disease, and frequently follow rheumatic fever.

Cayles. Ulceration or mortification of bony tissue, or of the teeth, usually followed by decay of the substance affected. Muriate of calcium, administered decreveringly, coincidently with a gouerous nutritive dietary, will often be found remedial in carles; but surgical attention is usually requisite.

Carminative. Anti-spasmodic, expelling wind from the system, a remedy for colic or fatulence. Hot water, ginger, peppermint, and pennyroyal are amongst the simplest of carminates.

Carrotid. The two large arrenes of the neck, conveying blood from the heart, and situated on either side of the windpipe.

Carpologia. A very low state of the system in disease, indicating all but complete exhaustion of the physical and mental powers.

Cartiage. Cristle, an elastic substance attached to the bone, pearly-looking and affording relatine on boiling. The cartilages cushlon the hones at the joints, and move over each other without friction through the action of synovial fluid secreted in their immediate vicinity.

Cascar and Cascarilla. The bark of an American specus of cinchona, used as a tonic either in incure or infusion; also as a laxative.

Castor Oil. A valuable purgative obtained by pressure and heat from the saces of the Richus communis, one of the Spurges. It usually acts upon the lowels very quickly and thoroughly, and my be

Castor Oil. A valuable purgative obtained by pressure and heat from the steds of the Richms communis, one of the Spurges. It usually acts upon the lowels very quickly and thoroughly, and may be administered with good effect in infancy and old age. Castalepsy is an alarming condition of suddenly suppressed consciousness, an acrompaniment occasionally of hystera in females. It may be of considerable duration, when it is usually called "trance." The application of ammonia to the nostrils, the hijection of ether or brandy under the skin, the friction of the body, or an electric shock, have all been tried successfully in catalepsy.

Castamania. The monstrual flow, irregularities in which should be immediately noted, and if not acribable to natural causes, receive medical attention.

Castamacs. An opacity of the crystalline lens of the eye, occasioning blindness. Should the aliment adde from disease of the lens itself, it is called true castamat; an external growth in rout of the lens constitutes what is known as false cataract. Usually an accompaniment of old age, and very ofons amenable to operative treatment in the early stage.

Castamysh. Increased secretion of mucus from the membranes of nose, ear, bronachia, atomach, alimentary canal, or urinary passages. Most catarrial alimentary

are occasioned by exposure to cold, and the term means simply "a running down." The "common cold" in the head or chest is the enost frequent of catarrha, whilst the catarrh of a marked and epidemic character is generally characterised as influenza. Catarrh of the air passages may be remedied, when eact of serious extent, by inhalation of eucalyptus or methol-impregnated steum.

Cathartics. Medicines which promote purgation, such as castor oil, cascara, Epsom saits, alors, senna, etc.

Cathester. A slender tubular bougie, introduced through the urethra into the bladder to relieve that organ when natural efforts fail; sometimes nade of india-rubber or gum elastic, sometimes of silver. This instrument should always be cleaned by antiseptic applications before use, and employed with great care, lest rinjury be inflicted upon the delicate urinary canal.

Cauteary. Burning, or otherwise acting upon a morbid part by heat, caustic, etc. A white-hot iron may be applied in emergency to a dangerous bite or poisoned wound. Lunar caustic, the fused niterate of silver, is perhaps the best and most commonly known agent of this character; other caustics are nitri acid, chloride of zinc, acetic acid, caustic potash or soda, and caustic lime. Salicylic acid and chromic acids are often employed for the purpose of eradicating coma meters.

and warts.

Cellular. Signifies consisting of microscopic cells.

Most animal and vegetable structures are cellular in form, hence we have the term "cellular tissue," indicating the membranous network filling up the interstices between the various organs of the human body, composed of numberless cells, crossing each other, and containing communicating Intercellular spaces, kept soft and moist by a watery vapour exhaled from the migute arteries.

from the minute arteries.

Cerebrum. The upper brain, the organ upon which depends the manifestations of will, intelligence, and memory, and which governs the processes of the and memory, and which governs the processes of the nervous system, these in turn directing all muscular action. Singularly enough, the cerebrum, or centre of the whole nervous structure, possesses itself no power of sensation, and may be injured, and even divided, without sense of pain being experienced, though functional derangement will, of course, quickly ensue. Diseases of, or injuries to, any part of the cerebrastructure demand the most skillul and instant attention.

structure demand the most skillful and instant attention.

Gerumen, the yellow waxy secretion of the external
ear. In aural catarrh, the cerumen sometimes accumulates and hardens to an extent occasioning temporary deafness. The introduction of a little warm

mulates and naries to an extent occasioning temporary deafiness. The introduction of a little warm glycerine or oil followed by syringing with topid water, in which a little antiseptic soap has been dissolved, will usually remove the trouble.

Gerrical Wertebree, the seven upper vertebree of the spine, situated at the base of the skull and immediately below, in the neck to the shoulders. Cervical muscles and vessels generally are those of the

Chalkstone, a calcareous concretion deposited in the Joints, particularly of the hands and feet of sufferest from gout, composed chiefly of urate of socia. Those of a gouty tendency should eschew socia there-fores lithis or potash being suitable antacids for their nilation.

core; anna or potan being suitable antactus for their assimilation.

Changre, a syphilite ulcer.

Chapped Hands are generally the result of careless drying in cold and windy weather, or may be occasioned by the use of soaps containing an excess of alkall. Some skins are particularly susceptible to chapping, and kanoline is generally a very useful application in such cases. The selection of a reliable emollient soap, such as Pears', for washing purposes, will usually be found effectual in the prevention of painful chapping, even during severe frost.

Chaptered is a splendid deodoriser and disinfectant and a capital air and water filterer. It absorbs many impurities in a most remarkable degree, and in poisoning from morphia, opium, and strychnine, if administered powdered in water, it will take up the noxious agest rapidly and reader it inactive.

Chapte or Thorax, the cavity containing the lungs, heart, and large blood vessels, the guilet and

windpipe also passing through it. Its upper portion is bounded by the neck, and it is separated from the abdomen by the diaphragm, a large muscle of breathing. The chest is the seat of many silments, referred to separately or in connection with the organs affected. Water in the chest, technically termed hydrothorax, is a resultant of pleurisy, efficient into the cavity having-occurred. Chest development, especially in the young, may be healthly promoted by athletic and gymnastic exercises, judiciously pursued.

Chicken Pox. A mild symotic disease, common to children, and usually occurring only once in a lifetime. Usually preceded by a feverish condition, the ruption comists of white-headed pimples on the breast, shoulders, face, scalp, and body generally, affecting also at times the tonishs and the palate. On the third or fourth day the white vestele dries up, leaving a scaly crust which soon falls away If the plmples are not trritated they-leave no thark behind but if scratched or nubbed by the patient, they will sometimes ulcerate and result in slight pitting. Carbon with the patient, they will sometimes ulcerate and result in slight pitting. lised oil applied to the parts which itch most painfully

lised oil applied to the parts which tech most painfully will allay the irritation.

Chilblains. These are really slight frost-bites, the effect of them being a pannful itching of the part affected, with more or less inflammation. Persons rheumatically disposed and such as are of a weak physique or "below par" in general health are more liable to chilblains than others. Tuncture of iodine is sometimes applied successfully to affected tect hands, but the best lotion is that prepared from carbolised zunc, one part carbolic acid to sixteen of ointment.

ontiment.

Chloral. Is a useful soporific when taken under medical advice in specific cases; but used indiscriminately or to excess it is most mischlevous. It has very depressing action on the heart.

Chloralamid. Is employed occasionally as a sleep-inducer in insonnia; its moderate employment for hypnotic purposes is not usually productive of linivious after-effect:

sleep-inducer in insomnia; its moderate employment for hypnotic purposes is not usually productive of injurious after-effects.

Chlorata. A calt formed with chloric acid and some base, as chlorate of potash.

Chlorata. A calt formed with chloric acid and some base, as chlorate of potash.

Chlorata. A collimation of chlorine with a base; thus chloride of sodium is common salt.

Chlorata. A celementary body of great bleaching power. United with lime it forms the chloride of lime employed as a distinctant and withening agent in laundry work and many manufactures.

Chloroform. A fluid obtained by distilling chloride of lime with alcohol or methylated spirits, largely employed to produce invensibility to pain during an operation. Carefully administered it may be safely used even with young children, and is very valuable in arresting infantile convulsions, but of course it should never be given save by a medical man.

Chlorosia. Centrally administered it may be safely one of the constitution in young formles. Its principal characteristic is a greenist hue of the skin, which accompanies extreme weakness and a suppression of natural menstruation. There is heart palputation and disturbed repose, with a vitiated condition of the blood. The restoration of regularity in the action of the bowels, plenty of fresh aft, exercise, and the administration of iron by way of tonic, constitute the essential treatment of chlorosis.

Cholora is a disease, in its worst or Asiatic form, of dreadul character. Cholerne, the English variety,

of chlorosis. Cholerie, constitute the essents research of chlorosis.

Cholera is a disease, in its worst or Asiatic form, of a dreadul character. Cholerine, the English variety, is a milder but sufficiently distressing malady; choices morbus has produced epidemics of much fatality. Sanitary science has latterly, however, materially lessened the prevalence of this Oriental scourge, which is due to the presence of a malignant micro-organise, which is due to the presence of a malignant micro-organise, which is due to the presence of a malignant micro-organise in the immentary canal, it quickly produces virulent symptoms, which develop with amazing rapidity. British cholera generally arises from the eating of unripe or unsound fruit, and should be combated by clearing out the bowels with aperients suited to the strength of the patient.

Chores. A disease causing irregular and uncontrollable motion of the muscles and limbs, incident

chiefly to children of rheumatic tendency. Generally called St. Vitus's dance, which see.

Chromite Acid. An acid formed by the union of the metal chromium with oxygen. Its sait, the bichromate of potasis, is extensively employed in medicine; and the effects of the acid when applied to warts on the hand and face are very marked. Great care should be taken in applying the acid not to touch the healthy skin in the neighbourhood of the objectionable growth, or the effect will be most painful.

Chyle. A milky-looking fluid produced during the digestion of food, absorbed by the lacteals, and added to the blood. It is elaborated from the chyme after it has passed into the stomach and been acted upon by the bile and nancreate fluid in the duodenum and

the bile and pancreatic fluid in the duodenum and become emulsionised.

Chyme. The condition of food after it has undergone the solvent action of the gastre juice of the stonach, immediately precedent to its conversion into

LIGALPIE. The scar or mark left by a healed wound, or, more properly speaking, the substance replacing destroyed skin, either external or of the nuccus membrane. It does not possess the vitably or the appearance of the original skin, and is more succeptible to injury, and sometimes contracts and produced deformity. Cicatrix. The scar or mark left by a healed

Cilia. The hairs on the edges of the eyelids, also the eyelashes.
Ciliosis. An involuntary spasmodic agitation of

the eyelids.

Circulation. The passage of the blood from and to the heart throughout the body, by means of the

the hold from the body, by means of the arteries and vents.

Girrhoats. A disease of the liver, causing deformity and general change of physical structure.

Citrate. A sait of citric acid. The citrate of iron and quinine is very nucle employed as a tonic.

Citavities. The collar-bone, frequently the seat of fracture, and at times presenting very considerable difficulty in setting and retaining in position.

Citavity man's Bore Throat. A peruliar condition of throat and larynx in public speakers and singers, brought about by prolonged and continuous straining of the vocal clords. There is houseness or loss of tone in the voice, partial or complete, and catarrh of the mucous membrane; and the aliment occurs most frequently in persons of rheumatic tendency. Rext is imperative, combined with inhalations of eucalyptus, crossote, etc., and conocident with tonic treatment of the system generally.

Olimactaria. Literally a progression, but generally applied to a supposed critical period or change of life.

Club Foot. A deformity due to contraction of one or more of the tendons connected with the muscles governing the motion of the foot. Usually in early life this disfiguring condition can be remedied by a simple surgical operation.

simple surgical operation.

Clyster. An injection into the anus for promoting evacuation in obstinate costiveness; occasionally used as a partial means of alfording nountshment.

Congulation. The change from a fluid to a sold state. The termis usually applied to the clotting of blood which has flowed from a wound and come into contact with a foreign substance. In such circumstances the globulin and liquor sangunits of the blood concentration of the contact with a foreign substance. In such circumstances the globulin and liquor sangunits of the blood to contact with a foreign substance.

stances the globulin and liquor sangunits of the blood so act upon exch other as to produce firint, which is the composition of coagulum. or blood clot Gocaline. A crystaline substance prepared from the coae leaf, and productive of local anaesthesia. Useful in the treatment of piles, toothache, and optical surgery and operative dentistry.

Cod Lavar Oil. A very valuable heat-producer and nutrient; remedial in consumption, risemantism, and scrobious disorders. Combined with mait, it is less nanseous than when grade, and more easily assimilated.

Colchicum. The meadow saffron, a specific for the gout, and otherwise, medicinally employed. It is should be cautiously used as it exerts a depressing effect upon the heart. In connection with the bowels it acts as a laxative, though only slightly so. It is prepared in the form of tincture, extract, and wine.

Cold. Deprivation or absence of heat. The extraction of heat from the human body by excessive or stitiden cold is answerable for many linesees, by impairing vitality and rendering persons susceptible to disease generally. Chill induces or contributes to disease generally. Chill induces or contributes to pneumonia, cutarrh, congestion, rheumattan, and many other maladies of a serious character, that is to say, the germs of disease are enabled to obtain a bold because the powers of resistance of the organs attacked are reduced by exposure. So that the simple cold should be enabled by the property of the state of the organs attacked its lit may bring in its rain. Cold in the head is due to congestion of the mucous membrane, and springs frequently from standing or stting in a draught. This and all other colds should be combated at their inception, to avoid complications. (See also Castarrin).

Gold Basths are invigorating to the robust when not taken at a time of over-fatigue; the test being the occurrence of the "after glow" upon drying.

Gold Basths are invigorating to the orbust when the cold of the sease ought new some continuers on the court three with vigorous chafing after drying on a courth tree. The sease of the cold of the contributed with a brist-to-

cold water, with vigorous chaffing after drying on a rough towel. This should be continued until a brisk circulation has been induced in the extremities. Never retire to bed with cold feet, or your rest will be dis-

retriet to be with cold feet, or your rest will be disagreeably interfered with.

Cold, Keeping out.

Cold, Keeping out.

Cold, Capture of the circulation and deaden the sensibility to chill, but the circulation and deaden the sensibility to thill, but the reaction is speedy and perious when the exposure continues.

Cold, When overcome by. The puttent becomes giddy, dazed, weak, and stiff in the joints, respiration feeble, pulse failing, intense drowsiness, culminating in coma. Vigorius friction should be employed to the whole surface of the booty but the suffers should not be taken at once into a heated apartment or placed in front of a fire. A stimulating enema may be administered and attempts made to get warm milk, coffee, brandy, berf extract, or other stimulating or restorative drink into the stomach gradually.

Collo, A spassiodic and very painful affection of the bowels, more especially of the colon. There are

Colie. A spasmodic and very painful affection of the bowels, more especially of the colon. There are various forms of colic—nervous, hysteric, billous, hepatic, etc. Painters' colic is the result of the action of lead upon the vystem. A considerable accumulation of wad upon the system. A considerable accumular tool wind, neglected constipation, the action of powerful purgatives or polyon, or exposure to cold, are all causes of cole. The paroxysmal pain is frequently reheved by pressure over the part, usually in the region of the navel. When flattulence is accountable region of the navel. When flatulence is accountable for colic it is often capable of relief by hot water njections, or lot abdominal fomentations, with sprinklings of laudanum, may do good. An litternal arodyne compounded of ginger essence, chloric ether, nepenthe, and thretine of cardaniums, is also recommended. Lead colic is an aggravated form of this nailady denoted by a blue line where the gums neet the teeth and often by wrist paralysis.

Colocynth, or "Bitter Apple," or "Bitter Gourd," a species of cucumber obtained principally from the shores of the Mediterranean, and used with aloes or some soothur, medium as a nureative.

iron the shores of the Mediterranean, and used with aloes or some soothing medium as a purgative. Colonitis and Colitis. Inflammation of the colon. or largest division of the intestinal canal. Goma. Is a state of usersibility resultant from some permicrous influence acting directly upon the brain. May arise from exposure to cold. spoplexy epilepsy, inflammation of the brain, blood poisouing, oplum taking. Intoxication, or direct violence. The oplum taking, intoxication, or direct violence. The stupp of coma, with its accompanying insensibility, presents various symptoms peculiar to the exciting cause of the attack, symptoms which, to the skilled observer, suggest the course of treatment likely to be of avail. In coma, however induced, the doctor's sid should be obtained as speedily as possible.

Complexies. A muscle at the back of the nack which in its action carries the head backwards on the atlas and restores it to an erect position after having been bent forward.

Commounted Proactures slopifes a livelete base.

Compound Fracture signifies a broken bone, accompanied by injury to the adjacent soft parts.

Concussion. Violent shock, usually understood in relation to a severe blow sustained on the head or spine. The immediate consequences of concussion of the brain are very alarming; but, unless the occlusioning injury be extensive they are generally of transient duration. There is collapse, vomiling, and loss of muscular control and power. Cold applications should be made to the head and face, ammonia held to the nostrils, and stimulants administered. A strong purgative cutch to be given unless recovery is speedy, and tive ought to be given unless recovery is speedy, and the bladder emptied; while warmth should be applied to the extremities, and mustard and hot water over the stomach. Meanwhile medical aid should have been summoned.

summoned.

Goadineents. Such as are in general table use are all, when moderately taken, of very great service as satisfants to digestion and agreeable savourers, but their excessive employment is a dangerous abuse.

Congestion. A deprivation of circulatory power, or an accumulation of blood therefrom resultant. Any collection of fluid matter becoming hardened is also in a congested condition. Congestion is synonymous with inflammation; and is denoted by local swelling, pain, and heat sensations. The temperature of the body generally needs reduction when extensive congestion is present anywhere, with local applications of a counteracting character, such as suutable poulties or fomentation, blistering, or, even in cases, cold treatment to the point of freezing.

fomentation, bistering, or, event in cases, cold treatment to the point of freezing.

Conjunctiva. A membrane in the front of the eyeball with the inner side of the eyeld covering the former and coating the latter. It is very susceptible to inflammation, which is termed conjunctivities and may be conveyed by contagion or result from cold. Relief may be obtained by bathing in strong tea to which a few drops of laudanum have been added; while

few drops of laudanum have been added; while quinine can be taken internally as a tonic.

Constipation should be prevented rather than cured. It is an unnatural condition. Sedentary employment, especially when carried on continuously indoors is a sure provocative of costiveness; muscular exercise is essential to the proper performance of the intestinal functions. Therefore those who must sit for hours at a desk for a livelhood should make it a rule to have their morning and evening walks regularly when constipation would rouble them but little. It is a potent evil. Retention of faccal matter in the bowels is certain to occasion absorption of contaminating fluid in the blood to a greater or less degree. Then will follow interference with the orderly action of the digestive and excretory organs and the increased digestive and excretory organs and the increased susceptibility to infectious disease which comes with an

unhealthy state Consumption. "Decline," or wasting away, is a disease of civilisation; and tuberculosis, its commonest discase of civination; and undercusses, its confidence of the course particularly of densely populated, low-lying, and predominantly damp districts. Consumption, as we understand the term, is due to the presence and development within the bodily tissues of the person affected, of the tubercle hacillus. It is not one person altering, of the thoefcie nactitus. It is not now considered to be a hereditary disease, that is, the germs are not transmitted from generation to generation. The masters of the healing art are making high endeavour to circumvent and stamp out the malignant will proper the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state micro-organisms whose ravages are held responsible for something like one-fifth of our death-rate. The open-air treatment cures many cases if taken in time. open air treatment cures many cases if taken in time.

A long voyage in temperate seas may prove restorative
should the disease have not secured too strong a hold;
in either case the remedial migration ought to larve the
accompaniment of a nutritive dietary, generous and
digestible. Food and medicine must be permitted
conjoint upbuilding action. Constitutional strength
should be sought through the absorption of such agents
as cod-liver oil, hyperphosphate syrups, creosotes, and
the calcium nitrates.

**Lentaglian.** or infection by "touch," as the term

the calcium nitrates.

Contagion, or infection by "touch," as the term literally implies, has come to mean infection by immediate transmission in the case of zymotic disease generally. Thus, though there may be so direct contact of sufferer and visitor, the insection may be conveyed through the wearing of clothes that have been worn previously by one amitten with a disseminable allment, by breathing air contaminated by his exhalations, or

by sating or drinking from vessels or handling utensils employed by him. "Catching" complaints include smallpox, scarlet fever, measies, munup, whooping cough, influenza, typhold fever, typhus, and consumption. All these and others are of an ascertained infectious character, and many virulent maladies besides those specified are strongly suspected of being contagious. For his own sake and that of the consumity at large, therefore, it behoves every person to exercise the greatest possible precaution in avoiding contagion.

Contraction. A shrinking or drawing together

Contraction. A stringing or drawing together of parts, as from a wound.

Contuation is the technical term for an injury arising from bruising, and is generally succeeded by rapid swelling in the region of the blow. This arises from the rupture of minute blood vessels and the exudation of blood and lymph into adjacent tissue. exudation of blood and lymph into adjacent tissue. Cold applications will check effusion and occasion slight closing at the orifices of the ruptured parts, thus expediting a resumption of the natural circulation. A compress of cloths frequently wrung out of the coolest obtainable water will usually be found helpful.

Convalescence is the period between the conclusion of the course of any disease and the complete restoration of the pattern to health. Its duration de-

clusion of the course of any disease and the complete restoration of the patient to health. Its duration depends of course upon the nature of the illness suffered, and frequently commences with a spell of very great prostration, the result of exhausting disease, which is gradually reduced as strength is regained. Generally a complete change of air is the Lest thing in convolution, the result of the less thing in convolution, and the inflammatory affections which the emaciated avoid the inflammatory affections which the emaciated are so liable to hicur. Cold must be guarded against, over-fatigue prevented, and much attention devoted functional regularity.

Convulsions are involuntary muscular contractions, frequently accompanied by unconsciousess, and arising from some internal meterience with the proper condition of the nervous system. Hystems, epilepsy, lock-law, and brain congestion occasion consulsive trouble in adults; in children they belong to the persone of autestinal worms. When once convulsions have occurred in children, especially at the teeting time, great care should be taken to keep the bowels in regular activity, and to maintain an equable odly temperature by the use of confortable clothing. Corsoold. A process of the shouldern butch from the front of the eye-hall or pupil. It is the medium of the passage of light to the retina. Its opacity results

Coracold. A process of the shoulder-blade.

Gornaa. The transparent membrane which forms
the front of the eye-hall or pupil. It is the medium of
the passage of light to the retina. Its opacity results
in cataract. while variations in the convexity cause
what is called long and short sight.

Goronary Arteries. Those nourishing the heart.
Corrosive Subjumate. Bi-chloride of mercury,
a very powerful anticeptic, administered in medicated
form internally in certain diseases, but always requiring
to be given with great caution and under medical oversight.

Coryza. A catarrh, especially that of the head, when attended with infammation of the nostrals. Couching. The operation of removing the opaque portion of the lens of the eye in catagact.

portion of the lens of the eye in catasect.

Cough. A more or less violent effort at expectoration, expelling air and mucus from the air passages.

It is more a symptom and indication of disease than an
ailment itself, and is induced by the passages of cold
air over an irritated part. When due to an affection of
the larynx, a cough generally has a tickling kind of
sensation at the top of the windpipe, and is spassinchic
and accompanied by comparatively little expectoration.

This is ever of the every of the cough and is very and accompanied by comparatively little expectoration. This is one of the sorts of dry cough, and is very irritant. But when the bronchial tubes or lungs are the seat of trouble, the cough ends in a discharge of mucus which may be purulent or sanguineous in character, according to the nature and extent of the disease present. Again, cough may arise from stomachic derangement, in children from the irritation set up by intestinal worms, or in females from utering the cough. and by a meeting worms, or in remains from thermic disorder. Always the cough is the outward and audible sign of some inward allment of greater or less gravity, and whenever it becomes distressing, and its nature is not understood. Tocourse should be had to medical skill

medical skill

Counter-isritation in medicine means the application superficially or some irritant with the object of relieving a deep-seated inflammatory condition.

Coup de Bolell. The technical term for sunstroke, heat-stroke, or heat apopleay. The symptoms of this seizure are throbbing of the head, faintness, nauses, vomiting, and alarming interference with or failure of the heart's action. The best treatment to be resorted to, pending the arrival of medical assistance, is the cold douche, and the application of ice, if obtainable, to the head with wet packing to the body in severe cases. Large doses of antipyrin will, if necessary, be administered by the doctor (hypodermically, if the patient cannot be got to swallow, ammonia being injected). No alcoholic stimulant should be administered.

Cowpox is the disease with which human beings

COWPOX is the disease with which human beings

Cowpox is the disease with which human beings are inoculated under the vaccination system, to render the individual innocuous to any after-attack of the more virulent and loathsome human malady, small-pox.

Cramp is a spasmodic contraction of the muscles generally attended with much pain; it arises trequently from prolonged or undue exposure to cold on land or in water, or it may be attributable to temporary exhaustion of physical power. When cramp in the bowels occurs it is usually owing to the presence of some indigestible food. It occurs in the limbs in cholera as the result of reflex irritation conveyed from the stomach or intestines. Over-lengthy immersion is a frequent the result of reflex irritation conveyed from the stomach or intestines. Over-lengthy immersion is a frequent cause of dangerous craup, often fatal to bathers when assistance is not at hand. Friction is the best remedy for cramp, the brisk rubbing of the affected part.

Cranium. The skull, embracing the bones which enclose the head and brain, twenty-two in number. Craniumalacia signifies softening of the bones of the skull.

Gream of Tartar. A popular laxative remedial agent, generally employed in conjunction with sulphur. It is also a useful diuretic in solution with water and lemon juice. Cream of Tartar is the bi-tartrate of potast.

potasn. Crapmota. Resembles carbolic acid in odour and antiseptic properties. It is procured by the fractional distillation of coal tar. It has a sedative as well as antiseptic action on the skin, and so form an invaluable ingredient of healing oliminents. It will often aliay toothache on application to decaying teeth, and makes

toothache on application to decaying teeth, and makes a good pill for staying stematch canausea, Croton Oil. A violent purgative, obtained from the seeds of an Indian shrub. One drop will produce copious evacuation. It makes also a valuable counterirating liminent in bronchial and other inflammatory internal diseases. The liminent must be kept clear of

irritating limiment in bronchial and other infiammatory internal diseases. The limiment must be kept clear of the syes, face, and any very tender part.

Group (Trute). A daugerous infiammatory disease of the trachea, incident chiefly to children. It is of a spasmodic nature, and alled, in its worst symptoms, to diphtheria. Croup, either true or spurious, always gives rise to considerable alarm, especially if not relieved in the early stages. It is considered to be aftered to the first due to reflex irritation produced by constipation or indigestion in complication with cold. A good dose of castor oil administered with promptitude will not infrequently relieve the bowels and promote vomiting, the immediate result being the staying of the distressing spasm by the removal of its main cause. A dose of inecacuanha wine will occasionally be needful in obtaining vomiting, and this expectoration also helps to expedite the flow of mucus in the windpipe and bronchial tubes. The chest of the child should be well rubbed with a compound liminent, back and front, of camplion, belladonna, and soap and opium, this being done every two ever three hours until the symptoms exhibit, "marked abatement. Croup, taken in time, and submitted to the seasons of the seasons in the control of the child should be with a compound liminent, back and front, of camplion, belladonna, and soap and opium, this being done every two or three hours until the symptoms extend; market of abatement. Croup, taken in time, and submitted to this treatment, is generally overcome in a day or two neglected, it may, in a very little while, develop into membraneous or true croup, and get beyond the reach of medical skill, ending in the suffocation of the patient in a last prolonged spasm. The characteristic choking is one of the most distressing features of croup. "False" croup is a spasmodic affection, rarely of serious

Gutiole. The external layer of the skin. Gutting the Teath. The removal of impeding tissue by absorption, usually called "cutting the teeth commences in children at about six months old, the central incisors usually appearing first. The lateral incisors follow, from the seventh to the teath month, and the canines from the fourteenth month onward, the first molars being "cut" concurrently. The second double testh do not genesally come into sight until the twentieth month, and may be delayed until the end of the third year. The back molars do not make their appearance with the first set, or baby teeth, but are cut at bout six years old; and from then to seventeen years of age, or later, the renewal or change to permanent teeth is gradually taking place, final cutting being of the posterior molars or "wisdom teeth."

Gyanostis. Commonly called the "blue disease,"

or wishom teeth.

Cyanosias. Commonly called the "blue disease,"
in which the whole surface of the body becomes of a
blue colour, through the venous blood circulating in
the arteries. It is an incurable affection, due to congental valvular malformatation of the heart.

Cynanche. A genus of diseases, embracing affections of the throat attended with difficulty of breathing and swallowing, inclusive of quinsy, croup, clergyman's

and swallowing, inclusive of quinsy, croup, clergyman's sort hirot, &c.

Cyst. A beg, sack, or tunic, containing matter, which may be either semi-fluid or solid. The bladder is a natural cyst; morbid cysts are produced by disease. Frequently these are found under the scalp, containing a perridge-like substance, and are readily removeable. Other cysts present at times in the body are usually amenable to operative reatment.

Dacryoma. A diseased condition of the lachrynna duct, in which the free flow of the watery humour of the eye to the nose is obstructed, occasioning the appearance of continual weeping.

Dacry Fees give rise to many alineaus, checking healthful perspiration and causing inequality of blood circulation. Dry stockings and shoes should immediately be put on after there has been exposure to were.

circulation. Dry stockings and shoes should immediately be put on after there has been exposure to wet, whereupon injury to the health will usually be obviated. The chief peril lies in keeping damp covering over the feet when moving about ceases.

Dandellon, the taraxacum of pharmacy, is a common medicine of very considerable efficacy in allments of the kidneys and the liver, either as a decoction of the root or taken in uliform.

ailments of the kidneys and the liver, either as a decoction ut the root or taken in pill form.

Dandruff. A scurvy affection of the scalp, consisting in exploitation of the scale of the outer skin, of frequent occurrence in infants and young children. It is inadvisable to use hard brushes and small tooth combs when dandruff is troublesome; frequent washing with borax solution is very beneficial.

Deadly Mightshado. The Atropa belladoma, a very powerful narcorte, having a touic effect upon the involuntary muscular system, much employed in the treatment of disorders of the eye; also in constipation and bladder troubles.

Deafnass may be temporary or permanent, com-

tion and bladder troubles.

Deafnass may be temporary or permanent, complete or partial, curable or incurable. When resultant from catarrh or obstruction of the aural passages, it may frequently be rolleved by syringing with lukewarm water or antiseptic fluid, but should success not result from careful treatment, competent medical examination ought to be secured. See Ear.

Death, Tests of. Hold hand-mirror over mouth, if life remains moisture will gather on the glass. Push a needle gently into the flesh, the puncture will close in a livine body, and remain open in case of death having

a living body, and remain open in case of death having already occurred. The ingers, held in front of a powerful light, look dark almost to blackness after death, but of reddish hue so long as there is life in

Debility. Weakness and relaxation of the muscular fibres and general depreciation of vitality, resultant from continuous illness or exhaustive activity, mental as well as physical. Healthy regularity is the best preventative of debilitation.

Decoction. A product obtained by steeping or boiling in water any substance employed medically. Delitrium. A condition in which the suffers has confused ideas of the past and present circumstances.

It is a frequent accompaniment of fever or disease of any exhausting description, and may be due to some inflammatory or other aliment of the brain; or it may result from excessive use of alcohol. The inducement of sleep and repose ought to be aimed at as an important remedial measure.

Deltoid.—The large muscle on top of the arm or

aboulder.

Demuleant.—Mollifying softening; a term applied to medicines such as marsh-mallow, mucliage, etc.

Dengue.—A form of malarial fever or epidemic riseumatism, sometimes styled "Dandy fever." It is liable to recurrence, and is most frequent in hot, damp countries, being characterised by painful swelling of the joints accompanied by eruption. Epidemic influenza has considerable affinity to the dengue of the Indies.

Depillatory.—Having the power to remove hair temporarily. A term applied to lime and other substances employed for the nurnose.

temporarity. A term applied to lime and other sub-stances employed for the purpose.

Depression.—Lowness of spirits, a condition gen-erally due to debility or interference with the nervous or bodily health, indicating the necessity of tonic treat-

ment.

Darma.—The true skin, hence dermatic, pertaining to the skin, and dermatold, resembling the skin, and dermatola, an inflammatory condition of the skin.

Dasquamation.—A separation or faling off of the skin is small scales, a process which frequently occurs after diseases which have occasioned acute inflammation of the surface of the body, such as fever, measules. everypelas, etc. In such cases the discarded measles, erysipelas, etc. In such cases the discarded scales are often charged with the germs of the malady which occasioned their removal, and should be re-

which occasioned their removal, and should be regarded as highly dangerous.

Diabetes.—An excessive and morbid discharge of urine, with other distressing symptoms, are present in this painful malady; and the discharges may either be insiplid or abundantly impregnated with sugary matter. Diabetes is a condition calling for medical assistance of a skillal character, as the dietary always requires very careful regulation. Abstention from all foods containing sugar or starchy substances is insually enjoined, and the medicines chiefly employed are optum, morphia, and saleylate of soods. The disease is less fatal to people well on in life than those of younger years.

is less taxa to pooled in strips for drawing the raw surfaces of wounds together, or for exerting pressure upon boils and ulcers in order to facilitate healing.

Diagnosis.—The art and act of distinguishing the

Diagnosis.—The art and act of distinguishing diseases by their symptoms, and so determining the necessary remedial treatment.

Diagnoreals, Sweating, hence diapnotic, that which will produce perspiration, and diaphoretics, sweat-promoting medicines. These are employed in sweat-promoting medicines. These are employed in fever, to excite the sweat glands of the skin to action, phenacetin being one of the most potent and safe Antipyrin is also a good deal used, but requires very cautious administration. Milder disphoretics are ipecacuanha, acetate of ammonia, oplum, and antimony, and diaphoresis may be induced by hot baths, vapour

Diaphragm, or Midriff, the thin muscular artition between the chest and abdomen, attached to the spine, the lower ribs and the sternum, or breast

to the spine, the lower ribe and the sterrum, or breast tone. Its contraction and expansion and the principal agents in the action of respiration; and it is principal agents in the action of respiration; and it is expected by the exceptage, or food-pipe, the great across add other important tubes. Disaphragmitis signifies inflammation of the disaphragmits algulface inflammation of the disaphragm or its perforace a costs.

Disaprinces is usually due to the presence of irritating matter in the intestinal canal, and is commoner in hot weather than at other periods. Its proper treatment is the clearunce of the canal by means of castor oil and laudanum, or some other effective apparent, such as a mixture of rhubarh ginger, and soda. In infantile diarrhoza chalk wisture is usually administered after each loose purgation, but the removal of the cause is of much more moment than the steepping of the flow in most cases.

removal of the flow in most cases. Something of the flow in most cases.

Dist should be varied within healthful limits, but always in accordance with the principles of supplying autrition of a proper character in sufficiency. It

ahould be wholesome, simple, and be partaken of temperately and with regularity—due regard being given to the requirements and condition of the individual. Prudence in dietary will have its reward, recklessness its revenge.

Digaction implies the conversion of food into chyme and chyle, and the consequent formation of blood and nutrition of the body. The food on its reception in the stomach is subjected to muscular movement and the action of gastric juices, in due course being changed into the butter-milk-like chyme. Fasting in this condition into the first part of the intestinal canal, two new liquids are poured upon it, the bile from the liver, and from the pancreast juice. It is now converted into chyle, which resembles milk in appearance, and passes along the thoracce duct to the upper part of the chest, whence it reaches the right side of the heart, and is then forced into the lung for admitton. The crygenawhence it reaches the right side of the heart, and is then forced into the lungs for aeration. The oxygena-tion of the chyle supplies the needed nutrition of the entire system. The luiful stage of digestion is accomplished in mastication, which it is highly important should be thorough, in order that the salvary secretions may be properly mixed with the food. Salivax converts the starch we cat into sugar. salvary secretions may be properly mixed with the food. Saliva converts the starch we cat into sugar. When the lacted vessels have done their duty, the massimilated portions of food pass their duty, the massimilated portions of food pass into the colon of large intestine, where they become acidulated and amalgamated with feculent excretions, and must in due regular course be evacuated, or the blood will thereby receive contamination, with certain prejudicial effects upon the nervous system. In perfectly healthy functional conditions all these processes go on uninterruptedly; the failure of any part of them spells indigection, derangement, disease, and pain. (See Indigestion.)

Digitalia. The common Foxglove furnishes a powerful tonic, acting upon the heart in a wonderful way, stmulating circulation throughout the body, and having a particular effect upon the secretory functions of the kidneys. This drug should never be administered except under the doctor's immediate diregion; it is far too potent to come within the category of domestic medicines, valuable as are its properties when skilfully applied.

Skilfully applied.

Dilatation. The process of enlargement or expansion, as of the chest in respiration or the heart in effecting the circulation of the blood.

Dill. Asplant not unlike the fennel, from which is prepared the dill-water so trequently administered with beneficial effect to infants suffering from pain induced

by flatulence

by fiatuleric.

Diphtheria is a dreadful disease, due generally to insanitary conditions. It is caused by a distinct germ conveyed in drinking water, food@er by the saliva, from a vitiated atmosphere Lassitude and weak pulsation are amongst the first indications of an attack. Small yellowish ulcers appear upon the tonsils, spreading rapidly over the thoat, larynx, and phayrus if not arrested by anti-spit treatment. Carboile acid or some other suitable germicide should be called into requisition and frequent and persistent garging or some other suitable geranicide should be called into requisation and frequent and persistent garging performed; whilst every endeavour must be made to improve the general health by the employment of tonics and nutritious and stimulative dietary?

Dipsomanta is a form of insanity in which the will-power to resust alcohol is impaired, with most distressing consequences to its subject and his or her connection. It requires the most patient seciolistic

distressing consequences to its subject and his or her connections. It requires the most patient specialistic treatment, and frequently proves incurable, bringing misery in its train, and ending in a dreadful death.

Disinfectants an agent which attacks putnesseen from into harmless products either by uniting with them or breaking them up. The chief natural disinfectants are sunshine and fresh air, soil or fresh earth, water, heat, frost and light; while the principal artificial or prepared disinfectants are charcoal, coaltar, and its products, carbolic acid, quick-lime, nitrous acid, chlorine, ozone, permangunate of potash, sulphate of lime, sulphurous acid, and fresh-roasted and ground coffee. A supply of disinfectants should be ready to hand for use in emergency in every well-regulated household.

Dislocation, as generally understood, means the displacement of bones by accident or direct violence. Their reduction, or replacement, usually requires the exercise of surgical skill; but in most cases the mischief may be remedied by prompt lay assistance. One of the most frequent displacements is that of the shoulder-joint, and this is also one of the most readily educible. The injured person should be placed upon a chair, with another by his side. Then let the operator plant his foot firmly upon this second chair, introducing his knee under the armpit of the sufferer, raising the arm and pulling strongly outwards and downwards over the knee-fulcrum, the patient's elbow being the lever employed to get the joint finit its old position. Let all be done with consident deliberation. Wrist, elbow, ankle, knee and thigh dislocations are usually reduced by drawing the limb powerfully forward in its long axis, and when the fullest possible extension has been obtained, exerting lateral pressure to force the displaced hone into the cocket. Repose is requisite after the reduction of dislocations to enable the tissues which have undergone violent strain to receive natural consolidation; and, after injury of this character has been extended and the challed by bet in receive natural consolidation; and, after injury of this character has been sustained, no time should be lost it seeking the remedy, for dislocations are always harder to set right by the lapse of time.

Disparsion. The removal of inflammation from

to set right by the lapse of time.

Dispersion. The removal of inflammation from any part of the body.

Diuretion are those medicines which increase the urinary flow by acting upon the secreting power of the kidneys. Digitalis, broom, dandelion, squills, salts of potash, and various malt liquors are amongst the agents medicinally employed in this direction; whilst the copious administration of all kinds of fluids is resorted to when it is desirable to dulute the urine and flush the kidneys because of the irritating nature of the discharges in various diseases.

Dorsal. Pertaining to the back. Tabes dorsalis is the scientific denomination of wasting of the spinal

**Dover's Powder.** A drug compounded of opings, sulphate of potash, and specacuanha. Useful alone or associated with other medicines in the treatment of numerous ailments, and obtainable at any pharmacy

pharmacy.

Draughts are always dangerous, especially when they convey moisture into contact with the person, and should be sedulously avoided.

Dressing is an important apparage of surgery, and the remedial treatment of wounds and injuries generally. The object chiefly aimed at is the procuration of rapid healing by the decomposition of fluid exudations. Wounds are therefore disted with some suitable antisoptic powder after careful cleaning, and then nearly bound with line gauze, or some other medicated textile, at times impregnated with an anaesthetic such as cocaine, according to the requirement.

Drink. The proper guldance to drink is to drink only when one is thirty. To drink by to there or even during a meal is not good. A sip or two of suitable fluid during any meal is natural, the "long drink" should be delayed until the close. Less fluid is really necessary for the maintenance of health in whiter than

in summer.

Dropay is a morbid collection of water in any part of the body, when the natural cavities become distended with that fluid. Dropsy of the abdomen is called ascites, dropsy in the chest hydrothorax, in the scrotum hydrocele, in the head hydrocephalus, dropsy generally anasarca. There various forms of the malady will be found dealt with under their specific denomination

denominations.

Drop Wrist, due to paralysis of the muscles which extend the hand, is a characteristic of lead-poisoning. Massage and the application of electricity locally are resorted to for the removal of this alarming condition, concurrently with the endeavour to get the poisonous cause of the trouble out of the system. Should there be accompanying constipation, as is usually the case, prompt measures should be taken to get rid of it.

Drawning. In cases of accounts the case, the case of accounts the case of accounts the case of accounts the case of accounts the case.

**Drowning.** In cases of apparent death by drowning, resuscitation may often be effected by

assiduous attention after the recovery of the body from the water, and should always be attempted unless it is absolutely certain that hope is past; hours of persistent effort have often been rewarded by success in seemingly desperate cases. The Schafer method of resuscitation is now generally employed and is recommended by the Royal Life Saving Society, by whom the following instructions are issued: After a person has been lifted out of the water, and no sign of life can be observed, immediately turn him face downwards. Kneel at the small of his back with thumbs nearly touching and the fingers spread out on each side of the body over the lowest ribs. Then promote artificial breathing by leaning forward over the patient and, without violence, produce a firm, steady, downward pressure. Next release all pressure by swinging your body backward without lifting your hands from the patient. Repeat this pressure and relaxation of pressure, without any marked pause between the movements, about fifteen times a minute until natural breathing is established, after which turn the patient face upward and proceed to promote circulation and warmth. Then rub the limbs upwards, with firm pressure, using handkerchiefs, standards. atter which turn the patient face upward and proceed op promote circulation and warmth. Then rub the limbs upwards, with firm pressure, using handkerchiefs, fannels, &c. Dry the hands and feet, and as soon as dry clothing can be procured strip the patient and re-clothe or cover with blankets, &c. Continue friction over dry clothing or under the blanket. After respiration has been restored carry the patient to a house. Continue to promote warmth by the application of hot finanels to the pit of the stomach, and bottles of hot water, heated bricks, &c., to the armitis, thighs, and to soles of the feet. If the power of swallowing has returned, small quantities of warm water, warm brandy and water, or coffee should occasionally be administered; the patient kept in bed and sleep encouraged. In all cases send for a medical man as soon as possible.

Drum of the Ear.

The tympanum or membrane separating the external from the internal ear, and receiving from without sound impressions for their conveyance by the ossicles or internal bones to the auditory nerve and eventually to the brain.

conveyance by the ossicles or internal bones to the auditory nerve and eventually to the brain.

Buot. A canal or tube of small size, conveying fulds in the body from a secreting organ. Thus the lacrymal duct, for the conduct of tears; the gall duct, carrying the bile to the bowel; the salivary duct, conveying the saliva from the glands to the mouth, etc.

Buodenum. The first portion of the intestine, commencing at the pylorus, by which it communicates with the stomach, and terminating at the lejumm. Into the duodenum—so-called from being usually about twelve inches in length—comes the chyle from the stomach to be mixed with the billiary and pancreatic secretons in the digestive process.

the stomach to be maked with the binary and pair-creatic secretions in the digestive process.

Dura Mater. The exterior of the three mem-branes enveloping the brain, the others being the pia mater and the arachnoid membrane. The dura

pia mater and the aractinoid membrane. In editination mater is otherwise named the dermatoid membrane.

Dysantary. A disease in which there is great difficulty in voiding the faces, which consist chiefly of mucus and blood. It is usually accompanied by fever, and followed by useless straining for evacuation. The seat of the mischief is mainly in the large intestination and the mucuous membrane, both of which become and the mucuous membrane, both of which become and the mucous membrane, both of which become greatly inflamed. It commences with shivering and feverishness alternately and diarrhora. Unless relief is obtainable, collapse usually occurs in a short period; and when recovery has been effected there is always danger of relapse upon dietary indiscrotion or exposure to damp and cold. Ipecacuanha is the great remedy for dysentery in the East, and this and opitates after sperient treatment with castor oil and laudanum often prove useful in overcoming the disease.

Dyamenia. Difficult or painful menstruction. (Called also Dyamenorrhosa.)

(Calica diso Dysmenosphess.)
Dyspepals. This is a form of indigestion, which, if neglected, will reduce a person to a miserable condition. It usually arises from indiscretions of diet, with neglect of proper exercise, or from habitan neglect of the "calls of Nature." Proper mastication is antagonistic to the dyspeptic condition, and where this important proliminary of digestion is rendered this important proliminary.

imperfect by had teath, dental attention is very ungastily necessary. Those whose digestive organs are not vigorous will be well advised to abstain from fermenting foods such as catmeal, soups, stewnsmit bolled meats; and they should attend very carefully to the condition of their bowels. Other foods for dyspeptic subjects to abjure are shell-fish, pastry, salt foods, pickles, pork, potatoes, uncooked vegetables, and strong ten that has stood long in the pot. Pepsin is a useful medicament for sufferers from this malady, so is bismuth and sods. But above all take plenty of time over the meals, and ear regularly and never to excess, with nothing at all solid or heavy after the mid-day repast.

Dysphagia. Difficulty in swallowing, which may arise either from constriction of the guillet or oscophagus, or from nervousness.

arise either from constriction of the guillet or escaphagus, or from nervousness.

Dyspaceas. Shortness or difficulty of breathing, associated with syncope, and disease of the heart, lungs, larger, or windple. Frequently a consequence of indigestion and a distended state of the intestines or stomach.

or stomach.

Bar. This complicated organ is divided into three parts, commonly called the external, the middle, and the internal ear. The external ear, or survicle, and the auditory canal which leads to the drum-head or sound-receiver, the drum-head itself, and certain portions of the tympanum or drum cavity, are visible or accessible from without; the internal ear, consisting of many minute sub-divisions, including the delicate nerve of hearing, ile deeply hidden in the petrous bone, the hardest bone in the human frame. It is essential that the internal ear should be free to constant communication with the atmosphere, to obviate undue pressure from the membraneous drum. This communication is carried on through the Eustachian tube, which terumuates in the mouth just behind the tonsils. Should this tube become congested, as it does during catarnia affection of the nucous membrane of the throat and nove, deafness results from rarefactation of the air within the internal ear, a condition usually styled throat deafness. Hearing also may become impaired by undue secretion and partial congealation of wax in the external ear, which can generally be set right by the employment of the aural syringe. Should this faul to afford relief the application of mustard plasters behund the ear will frequently produce a good effect. Sinail abscesses occasionally form in the outer aural passages, giving rise to earache and disagreeable noises in the ear, but these usually soon break and discharge, leaving no Har. This complicated organ is divided into three occasionally form in the outer aural passages, giving rise to earache and disagreeable noises in the ear, but these usually soon break and discharge, leaving no mischlef behind. Abscesses in the inner ear are dangerous, because of their proximity to the brain, and call for skilled attention. Inflammatory aural aliments may be treated by poulticing and fomentation with injections of laudanum; but always under medical

Bechymosia. Extravasation of blood, as in the cases of bruising blows; the "black eyo" is the most conspicuous kind of ecchymosis. The impact of contusion ruptures small blood vessels under the skin, their contents escape into adjacent cells, swelling and discoloration ensue until Nature has righted things. Prompt application of cold substances will generally expedite matters.

Besemas. Heat eruption, occurring in small confluent vesicles. It arises from an aliment of the outer skin, hindering its proper development during the renewals which should always be in progress, and permitting the exudation of watery constituents of the blood. Eczenia may be prosent in any part of the skin, but is most frequent at the flexure of the joints, behind the ears, and on hands, arms, and legs. A favourite remedial application externally is the oxide of zinc, which may be dusted over an olive oil dressing. The only soaps employed for cleansing purposes in any kind of eczenia should be those free from all irritating detargent properties and property impregnated with either carbolic acid or juniper tax. Dietary is of great importance in this disease. Salt meats, acids, fruits, pastry, and soups should be avoided, and malt and spirituous liquors.

Estaalean.—May signify the natural secretion of the faulds of the body, as it also denotes their escape from Besema. Heat eruption, occurring in small con-

the natural position as a result of inflammation. In pleuritic effusion there is interference with lung action through the undue accumulation of fluid in the pleural cavity; affusion into the cavity of the skull gives the hydrocephalic or "water in the head" condition, inflammation of the perizoneum or abdominal lining membrane, and may brung about dropsy; effusion into the pericardium, resultant on inflammatory action there, o may dangerously affect the heart; hydrocele is effusion into the scrotum; other abnormal effusions into these and joints are associated with various diseases, and directly consequential thereto.

and joints are associated with various diseases, and directly consequential thereto.

Electuary. A medicated conserve.

Elephantiasis. An abnormal enlargement or expansion of the legs and feet or other parts of the body, ansing from a preternaturally lunckened condition of the skin and the tissues beneath it. Operative treatment is necessary for the removal of this unhealthy condition, which at times assumes gigantic propor-

Emaciation. A gradual wasting of flesh and fat, indicative of disease. Fraciation occurs in many exhausting diseases which terminate fatally, and some exhausting diseases which terminate fatally, and some-times also in aliments of a much simpler and less dangerous character, as in dyspepsia, when the proper assimilation of food is suspended. In malignant dis-ease of the liver and in pneumonia emaciation is a constant symptom. Restoration of the glandular system is essential to the removal of enaciation, and this must be sought through medicament suited to the case, in combination with judicious dietetic measures. The chloride of cylcium is a very valuable remedial agent in curable emacation. agent in curable emaciation.

Embrocation. An external stimulating or soothing application, called also a liminent,

Emetics. Should be administered intelligently,

Emetics. Should be administered intelligently, and with full regard to the requirement, never in a speculative way. Their object is to induce vomiting, and thus quickly relieve the stomach or digestive system of undesirable contents. Emetics may be introduced to the stomach directly, or administered by injection. Amorphine, for instance, is always given subcutaneously, and ejection of the contents of the stomach is immediately consequent. Great care should be exercised in the use of emetics in the case of Should be exercised in the use of Chieffs in the Less or appured and it should always be remembered that antimonial wine. a potent emetic, is a depressant of the heart's action; the dose of it is one or two drachus at nearr's action; ine dose of it is one or two drachms at most in water for a strong adult, followed by copious draughts of waru, fluid. Safe emetics are ipocacuanha wine (balf ounce to one ounce) mustard and water, or sulphate of zinc (so grains in water); all to be followed by plenty of tepid water. Any of these may be administered with advantage in spasmodic effections, such as croup, asthma, color etc., and, in carefully regulated strength, to children where there is a great accumulation of mucois in the chest. The stomach pump is better than any emetic for effectually and com-

pletely emptying the organ.

Emulaion. A medicine of a milk-like character, prepared by the amalgamation of some alkali or sugar with oil and water. Thus new milk furnishes a natural

prepared by the amalgamation of some alkali or sugar with oil and water. Thus new milk furnishes a natural emulsion, uniting in its composition cream and milk. An admixture of the yolk of egg or gei-kine with soup milk, gruel or water will afford an emulsion for medical purposes; and powdered sweet almonds in water are frequently employed as a vehicle for medicines which tend to precipitate in simple fluids

Encephalitis. Inflammation of the brain.

Endemic Diseases are those arising from local conditions, as ague, in swampy and fenny neighbourhoods, or belonging to a particular period of the year.

Enema. An injection into the bowel, employed often with beneficent effect in constipation. Salt and water, or soap and water, are commonly used in this manner for the relief of a loaded lower bowel when its condition has given rise to pain and trouble; and the enema is very valuable in dysentery, diarrhosa, and where worms are working intestinal mischief. Antiseptic as well as anodyne ingredients can readily be combined in an enema, which may be administered by various forms of syringe obtainable at the pharmacies.

PEARS' CYCLOPAEDIA.

Internalgia, Nervous pain in the bowels, commonly called stomach-ache.

Enternic is typhoid, or gastric fever, due to the absorption in the alimentary canal of specific disease germs. Its presence is generally attributable to descrive sauitary conditions, and the use of unwholesome drinking water is perhaps the most prolific incentive to enteric. The great dangers of this condition are harmorrhage and blood-poisoning. The characteristic initiatory symptoms of enteric are great bodily prostration, copious diarrhora of a poculiar peasoupy appearance, a high pulse, and furred tongue-Purplish eruptive spots are seen on the abdomen and sometimes on the chest; the temperature rises at night and goes down towards morning. Deficient secretion, except in the bowels, follows, and disturbance of the urinary system occasions ursemic poisoning and coma in the concluding stage. To provent the partial functional paralysis which brings about this grave condition, the medical treatment aims at controlling the exhaustive diarrhora and keeping down the temperature of the patient as much as possible. Phenacetin is employed as an antipyretic, and if by its aid perspiration can be induced, and restlessness gives place to refreshing sleep, the case at once becomes hopeful. Skifful and unremitting nursing attention is quite as important in enteric as medical treatment. No solid food must be given till nursing attention is quite as important in enteric as medical treatment. No solid food must be given till

medical treatment. No solid food must be given in the patient has completely recovered. Entertis. Inflammation of the careful the intestines, due generally to catarrh, and indicated by excessive discharges of mucus. Dysentery is one form of inflammation of the bowels, affecting, as it does, part of the colon; but the catarrhal inflammation may affect the whole of the nuccous membrane mation may affect the whole of the nucous membrane of the alimentary canal to a distressing extent. Small doses of arsenic, administered in tar, will often be found remedial in ententis, after eating; and the dietary must be most carefully regulated, nothing difficult of digestion being permitted.

Entosoa. Several species of troublesome parasitic worms or low animal organisms, chiefy such as infest the intestines, and exert an irritating influence. (See

Worms.)

Epidermis. The outer or scarf skin, not composed of fibres, but of separate rounded cells. These are piled upon each other in layers to a varant ext.nnt, the cuticle in places, such as the soles of the feet, attaining considerable thickness; in other parts, as on the face, being smooth and thin. The epidermis is always, however, formed in two layers, the outer fat and resistant to injury; the inner soft and tender, and developing to take its place in due course externally. From the inner the outer skin of the epidermis is renewed when there has been blistering, scalding, eccema, or scaling after cruptive disorders.

Epidessrie Region. The upper part of the abdomen.

Bylgastric Region. The upper part of the abdomen.

Bylgiottis. A cartilage of the larynx, which protects the glottis, or wind-pipe, when food is being partaken of. It is a heart-shaped gland of gristle, and participates in the movements of the tongue.

Byllapsy. A kind of fit, consisting in the concurrent loss of consciousness with convulsive movements of the limbs of a narro or less violent character. Generally the sufferer subsides to the ground with lividity and distortion of countenance, staring and fixed eyes, rothing mouth, laboured or seemingly suspended breathing, and tumultuous beating of the heart. The tongue prorudes, and is sometimes badly bitten by the teeth through convulsive action of the laws, while there may also be involuntary evacuation. The full fit, even in a bad case, seldom continues longer than a few minutes, and is succeeded by drowsiness and a dull, stupid appearance, with troubled sleep of considerable during, during which the fit may or may not recur. A great many fits may occur, and that daily in persons subject to opilepsy or "falling sickness," as the malady is sometimes called, and the seizures may take place without warning at all, or follow premonitory symptoms. One of these is a pseculiar sensation known as "epileptic aus." This is an indeactibable feeling, as of a vapour, originating in the extremities and passing up toward the head. Epileptic fits may be distinguished from

those consequent at times upon hysteris by the sheence of laughing or crying, and from apoplexy by the disted condition of the pupils and the fact of the peculiar moding and paralysis which usually are the accompaniment of an apoplectic seizure being wanting. Epsiegram to avoid hurt in falling. Constipation, digrestive derangement generally, intemperance, teathing, worms, excessive passion, menstrual tregularity, great mental worry, and other exciting causes may bring on epilopsy, which is liable to continue during constitutional distributions, but is rarely fatal, save from injury sustained in the fall or from suffocation arising from constriction of the muscles of the throat and cheat during the convulsive paroxysms. The treatment of a preventative character consists in improving the general health and removing as far as possible all contributory causality, loosen the attire round the neck and waist, lift on to a couch or bed, raising the head and shoulders, and sprinkle the face with cold water. Do not disturb the sleep which succeeds the fit, or mental mischief may ensue. A piece-of wood may be placed between the teeth whilst the convulsive movement of the jaws continues, to prevent the biting of the tongue, and artificial teeth should be removed; while the careful administration of chloroform, it should be removed; will other careful administration of chloroform, it should be removed; will not must not be left alone after a fit in case another attack comes on. Those subject thereto ought to be most attentive to be left alone after a fit in case another attack comes on Those subject thereto ought to be most attentive to their dietary, and sedulously shun excitement.

Epiphysias. One part of lone growing into another, from which it had previously been separated by car-

tilage.

Bpistaxis. Bleeding from the lining membrane of the nostrils which secretes the nasal mucts. It can no the stayed by the application of cold to the spine, or by holding the hands above the head. In persistent hemorriage of this character the nostril may be plugged with cotton-wool saturated in some stringent solution or dipped in powdered alum. Those liable to frequent epistaxis may advantageously take iron or some other blood trait.

Why the Accumulant of the must

some other blood tenic.

Epulis. A swelling of the gums,

Eructation. Fjection of wind from the stomach
through the mouth. It arises from indigestion and the
consequent escape of gas generated in the stomach.
Charcoal powder is recommended as a palliative, but
the obvious preventative is attention to the digestion.

Eruption. Excretion producing small poutules
on the skin, as in scarlatina, measles, small-pox, etc.,
and indicating a diseased condition of the blood or a
vittated state of the cuticle.

Erysinelas. An inflammatory affection of the

and indicating a diseased condition of the blood or a vitated state of the cuticle.

Ezystapelas. An inflammatory affection of the skin, attended with the formation of vesicles and by feverishness. Sometimes this painful alment, which is known also as "St. Anthony's fire," and as "Rose, extends to sub-cutaneous tissue, and assumes serious dimensions, giving rise to delirium and even coma. It is due to the presence of a specific disease germ, which may be transmitted. Erystapelas occurs occasionally with no apparent outward cause, or it develops in a wound or from an injury in which the germ has found lodgment and proceeded to produce its progeny. It is always accompanied with considerable pain and hardness of the affected part. There is a tingling and burning sensation under a shiny read burning which pits and whitens on pressure. Meanwhile there is a generally febrile condition of the body, following shivering attacks. Then the inflamed patches subade, to reappear on some other portion of the body not necessarily adjacent; the parts first affected scabbing and scaling, or forming large blisters charged with yellowish fund. In bad cases the swellings suppurate extensively or forming large blisters charged with yellowish fund. In bad cases the swellings suppurate extensively or forming habcesses, and may occasionally gangrene. If erystapelas should make its appearance in the face without a special growth of the brain, with fatal effect. Glycerine and a solution of ichthyol are applied to the sores with frequent success; this is much better practice than the old plan of dusting over the inflamed surface with flour, even upon a dressing of carbolised oil. Tincture of the muriate of iron may

aiso be administered advantageously, and saline purgatives are good, while the diet should be light and nutritious. The tendency of the sores to wander gree the body may sometimes be checked by painting with indilisted inacture of perchioride of iron.

Brythesma. A morbid reduces of the skin, and superficial congestion somewhat resembling erystpelas, though unattended by the dangerous symptoms of that malady, usually attendant upon gratire disorder. Its severity is sometimes sufficient to occasion the formation of vesicles. Medical treatment should embrace the endeavour to amend disordered digestion and to keep the bowels in regular order. Brythema nodosum is a form of this disease to which rheumatic and symbilitie persons are occasionally subject. The swellings appear upon the forehead or over the bones of the shins, and require blistering, with the administration of fodide of potassium.

Ethes, A product of the distillation of alcohols with selds, as nitric, sulphuric and other ethers.

Establyptima. The Blue Gum Tree of Australia, yielding an oil of very valuable antiseptic virtue. The river itself is wonderfully destructive off the miasmic of ague; and the essence of its foliage is largely enhalation in influenza, catarrh, diphtheria and other aliments of the air passages.

Euonymin. A resinous preparation of considerable service in bilious disorders, usually administered in combination with sagara extract.

Euchamman Tube. The normal communication between the ear-drum and the throat, permitting the passages of air into the tympanum. It opens into the pulparyux, just alove the floor of the novtris. The access of catarrh into this important tube, partially or completely closing the channel, causes the conditionalled "thoat deafness."

Exacerbation. Increase in the severity of a

disease.

Exalgin. A substance produced by the decomposition of coal-tar, and sometimes recommended as an anodyne in neuralgic affections.

Exercise. Signifies the employment of the voluntary muscles. The circulation of the blood and the formation of its elements within the body, as well appropriate the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the c as their destruction when done with, are all powerfully and favourably influenced by this exercise; so that it is obvious that without it there will be a sacrifice of health. A systematic and well-regulated diurnal course of out-door exercise should be undertaken, of an course of out-door exercice should be undertaken, of an agreeable and not over-fatiguing nature and extent; and of all exercises walking is the best; though this may be advantageously varied by participation in some interesting pastime. Riding is good, so are cycling, tennis, cricket, croquet, goif, skipping, fishing, shooting, and many other sports and games.

Bixhalation, or the emission of vapour, occurs in the human body, from the lungs and the pores of the skin. Disorders of the kidneys and the cuticle interfere with this process, to the discomfiture of the individual in the degree of their magnitude.

Bixhaustion. Follows the over-prolonged expenditure of energy, muscular, nervous or mental; but "training" or gradual habituation to endurance, will enable individuals to withstand fatigue to a surprising extent.

surprising extent.

surprising extent.

Exemphatus. A rupture of the navel.

Expectorants. Medicines which assist the discharge of phiegm or mucus from the mouth. Amongst the most frequently employed expeditors of the removal of surplus secretions of the mucous membrane are ammonia, antimony, paregoric, terebene, and

Expectoration. Provides, in the sputa, a valuable guide very often to the internal condition. Thus, able guide very often to the internal condition. Thus, if the mucus or matter expectorated be frothy in character, bronchlits or catarrh of the air passages may be indicated. Should the sputa be viscid and rusty-coloured, pneumonia or lung infammation may be suspected. If it be purulent, consolidated, and blood-inged, consumptive disease of the lung-structure is pointed to. The patient is "apitting his lung away," Thus the trained eye can divine from what is cast out of the system what is going on within. In auspected

consumption the expectoration is examined by the microscope to detect the germs of the disease.

**Extravasation:** Escape of the fluids of the body from their natural canals, and consequent diffusion in adjacent tissue. Most bruises produce extravasation.

**Eye.** The organ of vision, a most beautiful piece of natural mechanism, perfect in every particular, the eye may be conveniently considered in two divisions, the globe or eyeball, and the appendages which control its functions. It is placed in a bony case, which protects it as effectually as possible from internal injury, the socket in which it revolves, and moves so easily. It is further guarded from harm by the eyebids, which automatically close at the approach of danger. The membranous external covering of the eyeball is reflected upon the lid, and is called the conjunctiva or white of the eye. In the centre of the globe is the pupil-pening, closed by the Iris nuscle; the pupil and irs contiguous coloured substance together constitute the cornea. The entire eyeball of, an adult is barely an inch in diameter, and measures rather more from back to front. It is enveloped by the scientic, a firm membranous structure, which at the exercision constitute the exercision was a substance to adult the exercision. rather more from back to front. It is enveloped by the scientic, a firm membranous structure, which at the posterior surface opens to admit the optic nerve. Within the scientic membrane is the darkish brown choroid coat, and within this again the retina, an expansion of the optic nerve forming the sensitive substance upon which are projected objects whose impressions are conveyed to the brain. The globe of the eye is filled with two transparent fluids, contained in chambers, between which is situated the lens. The anterior chamber is charged with anyeous burnour. anterior chamber is charged with aqueous humour, anterior chamber is charged with aqueous humour, the posterior with vitreous humour. Rays of light emanating from the objects presented to the vision pass first through the cornea; next through the aqueous humour, the lens, and the vitreous humour in turn. In their passage the rays undergo refraction, which bring them into their proper focus on the retina. The choroid coat absorbs all the superfuous rays, which bring the winter context the superfuous rays, The chorold coat absorbs all the superfluous rays, which would otherwise confuse the vision. The eye is subject to many diseases. Ophthalmia, or conjunctivitis, is an inflammatory condition of the external layer, and produces a red discoloration. Scieroits, usually of rheumatic origination, presents a more livid appearance. Inflammation contracted in the comes may induce opacity interferent with the transmission of rays of light. The lens may be affected and become opaque, when catract is the resultant. The retinatic humours of the eye, and the chosel coat, are all also flable to alliments of a more or less serious nature and every affection of any part of the visual system requires the most skilled and specialistic remedial treatment. treatment.

treatment. Eyebrows are formed of muscle and thick skin, covered with stiff bairs, and resting upon a bony ridge above the edge of the orbit. They are drawn down instantly when angerously dazzling light is encountered by the eye, and they intercept and shed the perspiration trickling down the forehead. Perfect

encountered by the eye, and they intercept and shed the perspiration tricking down the forehead. Perfect eyebrows are found in no animals other than mankind.

Eye, Dust or Grit in. Roll up a piece of soft whize blotting-paper like a pipe-lighter, and moisten the end to remove the irritating foreign body, meanwhile rubbing the other eye.

Fainting. Fainting, or swooning, may occur from shockgor from loss of blood, or other depressing cause, mental or bodity, such as affection of the heart or excessive diarrhea. The patient becomes pale and losse consciousness. The eyes dilate, the skin is clammy, the limbs are loose, the muscles relaxed, the sufferer falls to the ground as one dead. Remove the sufferer, in the lying down position, to the open air of a well-ventilated apartment, letting the head rest lower than the body. Loosen the clothing, sprinkle the face with cold water, apply strong smelling saits to the mostrila. Should the patient be capable of swallowing a little sai volatile, or brandy and water, it may be administered. If nitrate of amy! he procurable, the inhalation from a handkerchlef sprinkled with a few drops will often have powerful restorative effect. Chaing the hands and friction to the limbs generally is helpful, and it may be necessary to apply a mustard poultice over the region of the heart.

Faise Elbs. The five lowermost ribs, so styled

because the 11th and 12th pairs are loose at one end, and the cartilages of the rest run into that of the 7th ribs, instead of being prolonged separately to the breast bone, as in the case of the upper seven or true ribs.

Fances. The cavity between the mouth and throat, bounded by the tongue, tonsils, uvula, and the larynz, leading to the pharynx.

Fabricula. Slight feverish attacks, principally affecting children, arising from disordered digestion, and readily corrected by removing the cause.

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to a very considerable extent.

Fanus. The Os Fenions, or rhigh bone, extending between the haunch and kinee. It is the longest bone in the body, and is frequently the subject of fracture, which requires most skilful attention for roduction. The placing of the broken parts in apposition and their retention until proper reminon has taken place often presents considerable difficulty.

Feven. A disease characterised by heightened bodily temperature, increased and rapid respiration and pulsation, thirst, loss of strength and general functional disturbance. It may arise from chill, blodd polsoning or direct infection; but the actual active principle of all fevers is morbid material in the shape of the poisons produced by germs crudating within the blood. Fever is classed as remittent, when it abates at intervals; it is intermittent when it ceases totally for at intervals; it is intermittent when it ceases totally for awhile only to recur. There are many forms of fever, including scarlet, typhoid, typhus, heetic, miliary, symptomatic, rheumatic, yellow, and malarial fevers. See separate references. Fibrin. An essential element of vegetable and attinal organisms, represented in the blood and other

Fibroid. An unhealthy growth of a fibrous character, as fibroid tumour.

Fibula. A sleuder bone of the leg, situated on the outer side of the shin bone. Its lower end forms the

outer part of the ankle.

Fingers. Four of the five digits of each human hand, the fifth being the thumb or poller. The first hand, the first being the thumb or police. The first is the index-finger, generally employed in pointing out an object or enforcing an argument. Then we have the middle finger, the ring finger, and lastly, the little finger. All are opened and closed by powerful tendons aid muscles proceeding from the wrist, over the palm, and along their own under-surfaces.

and along their own under-surfaces.

Fire, d. in case of being surprised by fire in a house, when the room is filled with smoke and flame, get as close to the floor as possible, where the air is almost always clearest. Crawl out as quickly as you can; and, in entering a burning apartment for rescue or other purposes, also crawl along the floor, enveloping the head in a thick, wet cloth, cutting holes for the

Fire, when clothing is ignited. Wrap in or roll on a thick rug or blanket, and on no account run out into the aimor downstairs. Keep the head down to prevent the inhalation of smoke or fanne as much as

possible. Fistula. A deep, callous, and narrow ulcer, generally following an abscess, in certain parts of the body, and forning an abnormal passage between some internal organ and the skin. The term is chiefly applied to a pipe unnaturally created between the bowel and the surface of the body by disease, which has worked its way down through the fiesh into the intestine. Fistula is always an indication of poor general health, and largely attacks persons of sedentary hosts. The matter is always one for prompt operative attention, in association with the endeavour to improve the patient's general condition.

association with the enceavour to improve the parient's general condition.

Flacoid. Wanting in tone, soft and yielding to the touch, as relaxed and unhealthy muscular tissue.

Flatulance. "Wind" generally in the stomach and intestines through imperfect digestion and various other causes often productive of serious inconvenience and severe pain. There is generally fermontation as

the result of decomposing food-stuffs of an unwhole-some or improperly blended character at the bottom of the glischlef. Some foods are particularly conductive to the flatulent condition, starches particularly, and these should be avoided by all those whose stomachic equipment is not particularly strong. Stews and soups, and over-inused tea are all "windy" things. Fistulence is better prevented than cured; but its painful effects may be alleviated by charcoal, which absorbs the troublesome gas whilst staying the decomposing and formentary generative processes.

Flatus. The wind, or gas, in the intestine in fatulence.

Flexors. Such muscles as assist in the bending of

Fig. orb. Such muscles as assist in the bending of any limb or part of the body.

Fig. orb. Acid. An acid obtained from fluer spar, usually now known as hydrofluoric acid.

Fiux. A running, flow, or discharge; an extraordinary excutation from any part of the body. The term is one very seldom employed nowadys.

Follicle. A small gland or beg. as at the roots of

haurs.

Fornantation. A simple yet often efficacious method of applying moisture to the body fur the alleviation of pain. Hot formentations are of good service in the relief of inflammatory and spasmodic internal affections, especially of the abdomen and chest. The most approved way of procedure in foutentation is to fold about half a dozen plies of fannel of suttable dimensious upon a towel laid over a hand-basin; the fannel is then saturated in heated water, neglicated or otherwise as may be advisable. hand-bashi; the fiannel is then saturated in heated water, niedicated or otherwise as may be advisable, and enclosed in the towel. Two persons are then employed in expeditiously wringing out the superfluous moisture. The fiannel should then be spread out, and it the pain be very considerable, a few drops of laudanum may be sprinkled upon it before applying it, as hot as the patient can bear, to the affected part, covering with several layers of dry fiannel to retain the heat. An indiarabber hot-water bag half filled is a better covering for the saturated fiannel if it be desirable to maintain the heat for a considerable time without interrupting or changing the fomentation. Turpentine, poppy-heads, and other anodynes are useful in fomentation as well as laudanum, and the sponge and cotton-wood are sometimes substituted for fiannel as the medium. Camp and color, erysplead and filling abscesses are usually greatly reheyed by fomenting; so are bad sprains and bruises and filling abscesses are usually greatly reheyed by formenting; so are bad sprains and bruises dumman beings, may be classed under two principal heads, that which is nitrogenous in character and that which is non-nitrogenous free and sasimilative purposes, mised food are degreative and assimilative purposes, mised food are water, medicated or otherwise as may be advisable,

digestive and assimilative purposes, mixed foods are best adapted to our wants, and the first natural aliment, best adapted to our wants, and the first natural aliment, the maternal milk, contains introgenous and non-nitrogenous elements combined in sufficient strength for the period of life. Fresh animal food is much more nutritious than vegetable food, and more sastly digested, yet is retained longer in the stomach, Vegetable food passes quickly out of that organ into the small bowel, where its digestion is completed. Vegetables are particularly important in dietary, as they contain and supply certain salts and other inorganic substances which are essential to the development of they contain and supply certain salts and other inorganic substances which are essential to the development of bone and furmish to the blood materials of a disease-preventing character. Water is also an important article of lood and enters largely into its composition. Sugar and starch consist of carbon, hydrogen, and oxygen, and are the principal of the respiratory and ineat-producing foods. Butter and oily substances not only greatly aid in keeping the fire of life a-going, but build up the fatty tissues necessary to health; and also aid in the digestive processes. The nitrogenous foods are mainly made up of fibrin, legumin, guten, casein, and albumen. Salt is necessary to the blood as an element of preservation and nourishment.

Forearm.—That part of the arm between the writst and elbow, composed of two bones, the radius and ulna, and their accompanying fiestly tissue. The

wrist is articulated by the radius with the forearm, which enables the hand to rotate.

which enables the hand to rotate.

Fracture. The breakage or rupture of a bone. This not uncommon, but always painful, acciden@may be of simple denomination, as when the bone is cleanly divided without splintering or external wounding; or compound, if the bone be broken or "smashed" in its integuments. In compound fractures the skin and soft tissues are torn, and there may be a portion of splintered bone forced through the fesh. A comminuted fracture consists of the bone being broken or crushed into several pieces. A commond comminuted fracture not only has the bone so broken, but fesh wounds of a more or less extensive character in connection with the breakages. That a bone is broken may usually be readil: "seen by the distortion or deformity produced, or heard by the crepture or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fractures or peculiar grating sound "ceasioned on the fracture bone is situated together with unnatural mobility with loss of power over the limb or part in which the bone is situated together with unnatural mobility being present, fracture is certain; and a surgeon should be summoned to set the bone, the sufferer being laid in the most restful posttion possible to await the doctor's arrival. It is necessary to exercise very great care in moving the patient, or a simple fracture may be converted into a corround one, and a compound fracture which was not comminuted become so. A shutter or wide board should be placed under the injured limb for its support, however short a distance it be requisite to convey the injured person. There is usually considerable swelling in connection with a fractured bone, particularly if the damage done to the soft tissues by crushing or tearing be extensive, and a broken rib may occasion swelling all over the body if a fragment of the bone should have penetrated the lung, permitting air to escape from that organ into the lung, permitting air to escape from that organ into the cellular tissue. The covering of the injury pending the doctor's coming, with cloths wrung out in a solution of carbolic acid or some other antiseptic, may prevent suppuration later on.

Frantium, a membraneous fold connecting an with other parts of the body, as of the tongue.

Friction and Massage of the skin is very often

Fritton and Massage of the skin is very often conducive to health, in accelerating sluggish circulation or promoting bodily heat, and it forms an important part of curative massage. Rubbung is also beneficial in stiffness of the joints or muscles. Friction may be applied to the body by the hand, with fauncie or rough woollen gloves, or with the fiesh brush.

Fruit is very valuable in a dectary, Many fruits and or the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement

FFULL is very valuable in a dietary, Many Irius are gently laxative, many others contain salts and acids possessing properties beneficial to the blood. The most wholesome fruits are apples, pears, gooseberries, currants (red and white), grapes, apricots, peaches, strawberries, and oranges; all, of course, when quite ripe, the softer, mellower and fresher the better. Plums, cherries, melous, and all kinds of nuts, notice: Frants, cuerries, meents, and an effect of the though nutritive in different degrees, are difficult of digestion, generally speaking, and black currants, when raw, have a disagreeable effect often upon the bowels. Some fruits, otherwise objectionable, may be cooking undergo conversion into excellent foods, as baked culinary apples, and unripe or dried berries of various kinds.

Galactia, a morbid production, or overflow of

Gall, the bile, a bitter, yellowish-green fluid secreted

Gail, the bile, a bilter, yenowish-green must secretically the liver.

Gall Bladder, a membraneous pear-shaped bag, attached to the under side of the right lobe of the liver, large enough to contain one to two ounces of the gall liquid. It acts as a reservoir to receive the surplus bile from the liver during the intervals of the active

directive process.

Galles Redd is useful in the spitting or vomiting of blood. In the latter case it may be taken in ten grain doses in milk or water, and in the former along with fifteen drops of dilute aromatic sulphuric acid in water

alone.

**Gall Stomes**, or biliary calcuil, are congealed masses of bile substance incapable of passing along the duct as they would do in their naturally full state, and have to be forced through by the severe spasmodic

contractions of the canal, which occasion such acute pain to the subject. The gall bladder becomes dis-tended, and nuch of the bile is absorbed by the blood, giving to the suffere, a jaundiced appearance. Large giving to the suffers a jaundiced appearance. Large or repeated doses of clive oil have been administered very successfully for the relief of this distressing

ailment.

Galwanism, that form of electrical excitement by 
Chemical action, generally called voltaic electricity.

Gangliom. A knot-like process formed by a mass 
of nerve-cells; or a hard encysted tumour, situate in the 
course of an extensor tendon. Anatomically the term 
applies to the minute centres abounding throughout the 
body; and surgically to elastic swellings which appear 
at tunes on the top of the foot and on the wrist, reaching 
the size of a hazel nut, and yielding to pressure.

Gangene. Incipient mortification, a term applied 
to the death of the tissues, following disease of the 
part, which becomes black and vold of sensation. 
Amputation beyond the seat of the mischief is nearly

Amputation beyond the seat of the mischief is nearly always essential.

always essential.

Gargle. A wash for the throat, astringent, antiseptic or soothing. In early stages of inflammatory affections astringent gatyles, with antiseptic combination, are very useful as alleviative treatment, removing mucus. Hot water, with bicarbonate of soda in solution, is frequently employed; and chiporate of potash in solution, and associated with borax, will allay ulceration. Alum, dissolved in water, and diluted glycerine of tannin, form valuable astringent gargles; and an efficacious admixture for general gargling purposes is a wineglassful of warm water with twenty-five to thirty drops of sulphurous acid. It may be employed frequently without fear of harmful effect.

Gas. A vapour retaining elasticity permanently at ordinary temperatures, and distinguishable from nor gaseous vapours which become aeriform only under the action of heat. The gases most frequently encountered in considerations of health are oxygen, hydrogen, nitrogen, carbonic acid, chlorine, and ammonia, to all of which reference is made elsewhere

m tlus dictionary,

m this dictionary.

Gas, Suffocation from. Suffocation from the inhalation of escaped gas should be combated by removal to the fresh air as speedily as possible. The sufferer must be kept warm, and made to lie down, frequent thraughts of ammonia, twenty drops to a tumbler-tall of water, being administered until relief is obtained. Tincture of mix vomics, two to four drops an hour at first and less often later, may also be given in obstinate cases of suffication from this cause, but a doctor should be called in unless improvement be manifest.

Gastric. Appertaining to the stomach, as gastric arterios, gastric juice, gastric fever, etc.
Gastric Fever. Another name for Typhoid

Gastrio Fever. Another name for Typhoid Fever, which see.
Gastrio Jules. A fluid containing pepsin and hydrochloric acid, secreted in the interior of the stomach, and forming a principal agent in the digestive process, during which it is distinctly acid, though it possesses neither acid nor alkaline reaction on removal, but has a saine taste. The juice is transparent and slightly viscid. It converts nitrogenous foods into substances called peptones.
Gastrio Ulore. Frequently occurs in young females, the symptoms being stomachic pain accompanied by vomiting of matter of coffee-ground like appearance, a condition due to the presence of blood. Ice will check the nausea and vomiting; and small doses of morphia and bismuth may be administered with good effect; while milk is the best food, for no solids should be taken until the ulcerous trouble has

solids should be taken until the ulcerous trouble has

been overcome.

been overcome.

Gastritis. Chronic inflammation of the stomach,

'frequently occasioned by continuous alcoholic indupence, though it may arise from gout or other disease,
or be produced by strong purgative medicines or
ndigestible food generally. Excessive thirst, restlessness, and local pain are symptomatic of gastritis, while
dilute hydrocyanic acid, administered in soda-water, is
remedial.

Gastrocale. A harmisi tumour considered by the

Gastrocale. A hernial tumour occasioned by the protrusion of the stomach through the abdominal wall.

ocnemii. Muscles forming the greater portion of the calf. **Eastroraphy.** The sewing up of abdominal wounds. ion of the calf.

Gastrorhagia. Gastric hemorrhage. Gastrotomy. Surgical bisection or cutting open of the stomach.
Gathering. Supportation, (See Whitlow.)
Genioglossi. Muscles controlling the projection

of the tongue.

Gentlam. An Alpine root yielding tonic infusions and tinctures, very useful in pharmacy. As a stonachic, two to four grain doses of the extract, taken three or four times daily, are often administered with advantage.

Germs of Disease. The germ theory has received in recent years an immense amount of scientific.

study, with very great advantage to the suffering race. The result of research points to the conclusion that every disease is due to the presence in the system of some specific microscopic organism. Some of these microbes obtain access to the lody through the respiramicrobes obtain access to the loody through the respira-tory organs or enter the circulation through abrasions of the cuticle, but the majority come into the system uninvited by the front door, so to speak, that is, at the nouth, and are swallowed in the salva, or when eating or drinking. A vigorous and healthy frame furnishes the minute intruders with comparatively little oppor-tunity@or harm-doing; a debilitated condition of their unwilling host, organically or generally, gives the microbes their chance of development and multi-plication. That is the germ theory of disease in switches. epitome,

Gerontoxon. An ulcer of the cornes, of frequent

Geromtoxon. An ulcer of the comes, of frequent occurrence in old age.

Giddiness, or Wertigo, a feeling of lightness in the head, accompanied by a tendency to recling and falling. Objects appear to swim round, and the sensation is frequently experienced in looking down from a great height, or it is a marked premonitory symptom of many disorders or diseases. It may result from blood picthera or fulness or from blood deficiency, impaired or interrupted circulation, sudden change of posters, or be an accompaniment of indigestion. A rush of blood to the brain will occasion giddiness; an abnormal slowing of the supply is an even more frequent cause. In the first instance, the necessity of abstinence or the use of purgatives is indicated; where giddiness arises from weakness, tonic treatment is essential. sential.

essential.

Ginger possesses stomachic and carminative properties, and exerts a slightly stimulative effect upon the biliary secretion. It enters into the composition of "Gregory's Powder" and other medicinal mixtures. In fatulence it is remedial, and in combination with opiates covibats colic.

Glabella. The space between the syebrows, so asseed from its smoothness and usual freedom from

named from its smoothness and usual freedom from hair.

Glanders. A malignant disease of the horse, communicable to mankind through erosions of the skin. The germs may also be inhaled from the diseased nose secretions of the horse. Always fatal in the case of the animal, which must be destroyed upon its appearance to prevent he spreached with level caution of glanders and so the properties of the same of glanders of the delices diffused over the system, and smarally secreting some fluid. Lymphatic glande are found in the neck, the ampit, and groin, and these re liable to inflammation and suppuration. Some glands, as those of the spleen, seem to act only as blood reservoirs; others, as of the kidneys, pancrass, and liver, are provided with ducts for the conveyance of the fluids they secrete to their ultimate destination; while the glands of the intestines take up the digested food properties into the circulation. When the measurier glands are the seat of inflammatory disorder their condition is usually due to tubercular deposit, a remarke which also applies to affections of the neck glands. Muriste of calcium taken after food is a valuable medicine in sincer every glandular allment. Glans Fox. A variety of chicken-pox. Glanter's Bailts. Sulphate of sods, employed as a purgative, though not now so frequently as was formerly the case.

Glaucoma. A disease of the eye, in which the crystalline humours assume a greenish hus. Globus Hystericaus. The 'ball in the throat' in hyr-ria, due often to flatulencist. Glory-ria, due often to flatulencist. Glory-ria, due often to flatulencist. Glory-ria, due often to flatulencist. In the narrow opening at the top of the traches, or windpipe.

traches, or windpipe.

Glutan. The nitrogenous proximate element of wheat and bread, constituting its most nutrient property. It is found in east and barley and other cereals, but in wheat in the greater proportion. In its composition it has close alliance to the flesh of animais.

Glyoarine. A sweet fluid, obtained from fatty matters, and nuch employed in pharmacy. It has an entollient effect upon the skin, and forms a very useful adjunct to cod liver oil as a medicated food in pulmonary consumption. Upon the bowels it exerts a slightly laxative effect, and is administered beneficially for catarrh of the alimentary and bronchial canals. In thrush it goes well with borax as a mouth application, for catarra of the animentary and bronchial canals. In thrush it goes well with borax as a mouth application, and combined with tannin is good for relaxed sore throat. Glycerine is also useful as an injection in obstunate constitution, and forms a convenient solvent of carbolic and other acids.

of carbolic and other acids.

Glyater. An enema.

Godfray's Gordial is a preparation, the active ingredient of which is laudanum, and its indiscriminate use as a remedy for pain in children has frequently wrought mischief. Oplum in any form is a dangerous drug to adminster where its strength is unascertained, and particularly where knowledge as to its applicability to a particular case is lacking.

Gottra. (See Bronchoosle.)

Gomphiasis. A disease in which the teeth fall from the sockets.

from the sockets,
Gomphosis. Immovable articulation of the bones.
Gonitis. Inflammation of the knee.
Goulard Water. Solution of acetate of lead, a

Gonitis. Inflammation of the knee.
Gouisard Watar. Solution of scetate of lead, a
valuable soothing lotion.
Gout. Arthritis, or Podagra, a painful inflammatory disease of the smaller joints, especially of
the foot, sometimes extending also to the stomach,
periodically and intermittent, and generally of heredicary origination. Its foundation is in the digestive
system, and the natural outlet of the poison of gout is
the kidneys which fail to eliminate uric acid when it
exists in undue proportion in the blood. Consequently
it deposits itself in the joints or elsewhere, and sets up
the inflammation technically termed the "explosion of
gout." Severe throbbiog pain in some joint, generally
at the back of the great toe, is accompanied by
feverishness, irritability, depression, thirst, a rapid
pulse, and much suffering of a paroxyamal character;
and this condition becomes in many cases chronic.
A white concretion will frequently establish itself in
the finger joints, rendering them stiff and unsightly.
The heart and brain may become affected, and partial
nervous paralysis supervene. A specially light and
careful dietary is essential to gouty subjects, and
menthol, chronform, and belladonna liniment will
often relieve the most painfully affected parts. Lithia
denthol, chronform, and belladonna liniment will
often relieve the most painfully affected parts. Lithia
benzote, with colchicum incuture after meals is beneficial and opiates may be administered carefully when
the disease is most broublesome.

Granulations. Grain-like fleshy bodies which
form upon ulcers, filling up and promoting the healing
of the sores. When the granulation proceeds too
rapidly what is called "proud fiesh" is formed, arresting the healing, whereupon cauternation has to be

ing the healing, whereupon cauternation has to be

ing the healing, whereupon cauterisation has to be resorted to.
Gravaci. A stem popularly descriptive of disease of the bladder attended with the formation of calculus or stone. The urine is highly acid, and crystals of uric acid or particles of lime, ammonia, and urste socia become suspended within the fluid, aggregating into masses of considerable size, and creating tritiation inflammation, obstruction, and often occasioning excurcitating pain. Gravel frequently follows dyspepsis, or is an accompaniment of resumatizan, and often, in its pronounced stages, calls for surgical interference Blockmonth of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the stage of the st

in young females subject to chronic constipation. (See Chilescots.)

Eractory is Possiler. A combined purgative and stomachic, acting also with tonic and antacid effect upon the alimentary canal. It is formed of one partyginger, four parts calcined magnesia and two parts rubarts. It is a most useful medicine, and its disagroseable flavour may be greatly modified by the addition of a few drops of brandy or eau de cologne.

Gray Powdar. The Hydrangyrum-cum-Creta of Pharmacy, is an admirable aperient or alternative medicine for children, either alone or in combination with rhubarb, jalap, or other purgative drugs; while for adults it is a serviceable medicine in disorders of the liver, akin disease, or inflammation generally. It is prepared by rubbing together in a mortar two ounces of chalk and one of mercury until all the globules of the latter are thoroughly pounded and amalgamated with the former.

the latter are thoroughly pounded and amaigamated with the former.

Striffish's Mixture. Compound iron mixture is one of the best medical preparations of iron; this mixture is compounded of sulphate of iron, carbonate of potash, spirit of nutmeg, myrrh, sugar jand rose water. It lies lightly on the stomach, and does not induce subsequent constipation. In debility it is very beneficial, and is specially recommended for chlorosis, or green sickness.

Stype. The French appellation of influenza, employed often in Britain and America in denominating the epidentic phase of that malady.

Stanbolls, so called, are really abscesses relating to decaying teeth or disorders of the alveolar process, and occasion very severe pain because of the tension

and occasion very severe pain because of the tension they produce. Lancing will afford relief, but they are very apt to recur unless the tooth whose decay gave rise to them be extracted.

Hamaturia. A passage of blood with the urine, which may proceed from the bladder or kidneys, if from

Hematuria. A passage of blood with the urine, which may proceed from the bladder or kidneys, if from the latter organ, the water is smoky-looking.

Hematemeais. Bleeding from or into the stomach, the vomiting of blood, distinguished from Hemoptysis, the spitting of blood from the lungs. It is a paculiar circumstance that the stomach will not long retain fresh blood; consequently alarm is often occasioned by what appears to be blood vomiting when what is brought up is really the result of bleeding from the guns or the back of the nostrils, the stomach rejecting the swallowed fluid. Blood from the stomach is dark coloured and clotted. At times the ensanguined vomit resembles coffice grounds through having undergone partial digestion, which is of course an indication of its having been in the stomach.

Hamoptysis. Bleeding from the lungs, generally an indication of consumption or ulceration of the blood vessels of the lungs, and always a condition of considerable may be a supplementation of the colour.

Hamoprivoids. Files, with effusion of blood. These tender and painful swellings and protusions of the extremity of the bowels occasion very considerable incouvenience and irritation in walking and other bodily movements. They commonly arise from, and are, an accompaniment of constipation, and wascuntor to bleed profusely, the blood messes all before the profit way.

action increases their soreness and causes them to bleed profusely, the blood generally being bright red. In all cases of external piles considerable benefit may be derived from the application of ofntment of galls or some soothing non-irritant lotion; and the employment of simple aperients, such as castor oil or lentitive electuary, for the diminution of fulness in the vessels of the lower bowel will generally have a comforting effect. Cold water enemata are recommended, with light and careful dietary, and thorough antiseptic lavation of the nexts.

parts.

Hemostacia. Stagnation of the blood; hence hemostatica styptics, or medicines employed to stop

hemostatica styptics, or measures employees to hemostrage.

Have Ldp. A longitudinal fissure of the upper-lip, similar to that of the hare, sometimes styled "cleft lip," and often an accompaniment of cleft palate, deformatics due to the arrest of development before bitch. It is amenable to surgical treatment, which should be resorted to without delay.

Expéahora. The popular appellation of ammonia, which has so many uses in pharmacy.

Hay Fawar. Called also "hay asthma," a catarrial complaint, characterised by all the symptoms of a severe cold in the head, which affect the respiratory organs in a distressing manner. Some persons are particularly susceptible to this trouble, which is most frequently met with in the hay season, and is supposed to be consequent upon the presence of irritating pollen-particles in the air derived from plans. Fog will produce very similar effects at times. There is suffusion from the eyes, neezing, cough, and more or less constant headache. Quinne is a good tonic in this affection, with inhalations of ammonia, or the vapour of carbolic acid.

Hasalina. A distillation from the fresh twize of

Haselina. A distillation from the fresh twigs of the witch hazel forms a powerful astringent, having a very beneficial affect upon enlarged veins, such as bring about hamorrhoids and varicosity in the leg

weins.

Headsche. Arises from many causes, the chief of which are indigestion or billousness, nervousness, neuralgia, debility, rheumatism, or a disturbing blow. Billious headache is relieved by aperient treatment or an emetic, by the application of cold to the head (or hot salt will in some cases be successful), a warm/bath, or perfect quiet, with a draught of strong tea or coffee a brisk walk being taken when the headache has subsided. Sal volatile is useful for nervous headaches. Headaches arising from debility following excessive brain-work call for complete rest and tonic treatment. Neuralgic headaches, accompanied by throbbing brain-work call for complete rest and tonic treatment. Neuralgic headaches, accompanied by throbbing or shooting pain over the eyebrows, may be relieved frequently by taking bromide of potassium quinine. Rheumatic headaches generally affect one side of the head only and are paroxysmal in character, with renderness upon pressure at the seat of pain. General treatment for rheumatism is necessary for their cure.

tenderness upon pression at the seat of pain. General treatment for rheumatism is necessary for their cure.

Raart. The vital muscular ball—about the sixe of a closed fist—lying in the pericardium bag, almost surrounded by the lungs, and a little inclined to the last side of the clears, is the great pump with the last side of the clears, is the great pump with the last and can be considered to the last side of the clears, is the great pump with the last side of the clears, is the great pump with the last side of the clear the last pump with the last side of the clear the last pump and back to itself. It is divided into four cavities, the upper pair called the auricles, and the lower the ventricles; each of which is capable of containing from four to six ounces of blood. The heart cavities communicate with each the last cavities communicate with each their by ordices, whose well as mean the individual is awake. The heart cavities communicate with each of all the vital organs is subject to many diseases, Fatty degeneration is usually accompanied by a similar condition of the kidneys and liver, and produces a tendency to syncope, which may be somet-mes averted by sal volatile. Valvular disease will often result from rheumatic fever; and pericarditis, or inflammation of the investing serous membrane of the heart, is always liable to occur in this malady, bringing about great difficulty of breathing and oppressive pain. Endocarditis, inflammation of the under-lining heart membrane, is particularly dangerous. Enlargement of the heart, argues from frequent participation in protracted or violent exercise. Angina pectoris, or heart spasm, generally associated with dilatation 'x fatty degeneration, is due to impediment in the circulation of the blood-vessels which nourish the heart. It is a very grave malady. Palpitation of the heart, a common allment, is often attributable to faculence, or digestive and the common allment, is often attributable to faculence, or digestive and accommon allment, is often attributable to fa

Eause. Hearbburn. An acrid, burning sensation at the pit of the stomach and top of the guillet, technically called cardialgia, is a symptom of dyspepsis or indigestion. It occasions considerable uneasiness, and often brings about eructation, with "waterbrash." In pregnancy it is of frequent occurrence. Temporary iellef may be obtained from carbonate of soda, potash, or other correctives of an acid condition of the stomach, but careful dietary is requisite, avoiding acids and sweet foods, wherever heartburn—which has nothing to do with the heart—occurs.

Heotic Feyer. Is a remittent and exacerbating fabrile condition, attended with chilliness, heat,

perspiration, and clamminess in alternation. Con-sumptive patients are often hectic, as the bright red spot on their wasting cheeks painfully indicates, affording pressage of impending death. Hectico pyra is the acientific term for hectic fever, which is not so much a disease as a symptom of an unmistakable character. Helleborine. An alkaloid, employed in phar-miscy, and obtained from the root of the Christmas Rose.

Hemeralopia. Loss of sight at night.

Hemiarania. Neuralgic pain on only one side of the head. May be frequently relieved by galvanism, phenacetin, quinine, or other anti-neuralgic treatment, but, as it usually arises from a generally low condition, it should be regarded as symptomatic, and combated accordingly. (Also called Higraine, see Headsche.) Headache.)

Hemiopia. Partial vision, in which the whole of

ny object cannot be seen at one time.

Hepatic. Pertaining to the liver; hepatitis, in-flammation of the liver; hepatocele, a hemial affection in which a part of the liver obtrudes through the abdominal walls, not unfrequently found in new-born

children,

Hernia. By this term is distinguished that condition of the abdoneu in which the bowel protrudes
through the panetes or walls, commonly called
"rupture." Hernia, of course, appears most frequently
where the parts are weakest, and where important
vessels pass outwards in the groin region. It is usually
the resultant of strain in lifting, jumping, or the jolting
of riding, and is first observable as a soft compressible or many and inst deservations as not compression tumour, unattended with pain unless strangulated. This tumour goes back in the abdomen during rest in the recumbent position, returning on resumption of activity. It may be kept from causing inconvenience in athis reducible state by wearing a properly-ditted

Harpes. The Tetters, an eruption of the skin, as in ringworm erysipelas, and arising from an inflammatory aliment of the extremities of certain nerves. The eguptions commence by filling with clear fiuld, which becomes opaque and hardens later—coming away as a crust. Herpes frequently appear on the lips and cheek, when it is termied scientifically herpes lability; shingles is herpes zone or zoster, and appears upon the trunk when vitality is low.

upon the trunk when vitality is low.

Hiooough, or Hioough, is due to a contraction of
the diaphragm or muscular floor of the chest. Drinking water will often stay it when it is a temporary
inconvenience arising from indigestion. Its occurrence at the crisis of acute disease is usually a very
grave natter, indicative of approaching collapse.

Hip Joint Disease. A very painful affection to
which childsen of low vitality and tuberculous habit
are liable. It arises from tuberculous disease either in
the point or its imprediate vicinity resulting in the

which childam or low vitality and tuberculous habit are liable. It arness from tuberculous disease either in the joint or its immediate vicinity, resulting in the formation of pus, which may find an outlet at some considerable distance from the seat of the mischief. The allment frequently first manifests itself in occasional stiffness and pain in the joint, the foot evidencing a tendency to drag or turn outwards. As the disease makes progress pain mcreases and extends, and is frequently excruciating in the knee, even at times being felt there acutely whilst no considerable inconvenience is perceptible in the hip itself. Examination will show the injured leg to be slightly longer than the other, and a sharp tap to the sole or on the top of the hip-bone will greatly increase pain in the knee and hip joints. Later the leg is drawn up shorter, and abscesses form about the thigh, sometimes extensively, and of a very weakening character. There is frequently prostration and hectic fever; and unless the malady be arrested, death will, often ensue. Recovery is only in many cases attained at the expense of permanent stiffness of the joint. Treatment consists of securing complete rest to the diseased part, with nourishing dietary and tonics, such as coll liver oil, steel, etc. The patient has to be kept lying down, with the injured leg extended and supported by sandbags or splints, the inflamed surfaces being held as far as possible out of contact by a hanging weight carried over pulleys at the bed foot attached to the extremity of the affected limb.

Hippus. An affection of the iris, of a spee character, occasioning repeated dilation and

contraction.

Hiyes. The Group, The "Battles." A term lise applied occasioning repeated diletion. The lise applied occasionally to Chlekken-pex.

Hoarseness may result from overstraining the voice in singing or speaking, as well as from common catarrh or cold. Rest and inhalations of hot water lat a temperature of 140 degrees) with confiscement to a warm room for a day or two will generally correct this condition, especially if combined with the internal administration of judicious does of chlorate of potash. Hormacopathy is a medical theory aiming at producing in a patient affections similar in their nature to those from which he is suffering on the principle of "like curing like." Homecopathy relies on drugs in small does. Hahnemann, of Lebject, working on the observations of Hippocrates, was the founder of modern Homecopathy, which has had considerable influence upon medical practice. Thus quinine, which will, in the healthy, occasion febrile symptoms resembling ague, has been largely resorted to for the relief of ague.

resembling ague, has been largely resorted to for the relief of ague.

Hooping Cough, or "Whooping Cough," is an infectious aliment commencing with what is usually called a "common cold," and developing in a few days, after the subsidence of febrile symptoms, into a cough of a spasmodic and often violently paroxysmal description, with the characteristic "whooping" inspiration at the close of each coughing fit. The malady reaches its height in ten to twelve days, when it gradually abates, but seldom leaves the patient for some weeks, and is liable to recurrence.

Hordeolum. A sty or tumour or the eyelid resembling a barley corn in shape.

Housemaid's Knee anses from swelling over the knee cap, due to inflammation of the bursa or pad over the knee cap, due to inflammation of the bursa or pad over the knee cap, due to inflammation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indemmation of the bursa or pad over the knee cap, due to indem the section of the shoulder to the elbow, hence "humerally the subject of accidental fracture, and the setting of the injured bone usually presents but little difficulty to the skilled surgeon.

the skilled surgeon.

Humour. Fluids of the body. A term usually employed to indicate such fluids in a vitilated condition.

condition.

Hydatid. A transparent bladder or vessel on the body, filled with water, as in dropsy. Also a taggein the development of tape-worms. These are introduced in eating or drunking, and undergo their first stage of development in the stomach. Fenetrating the coats of the stomach or intestines they find their way into the circulation and locate themselves in the tissues of the circulation and locate themselves in the ussues or me muscles, eye, brain, liver, or some other organ, where they become encysted, and sometimes cause much mischief and even fatality. The hydatid cysts in animal tissue, taken in that condition as food, are liberated in the stomach in their final state as tapeworms, and then produce intestinal disturbance.

Hydragogues. Purgative medicines acting powerfully upon the mucous membrane of the boweis, and

Hydragogues. Purgative medicines acting powerfully upon the mucous membrane of the bowels, and the portal vens. Cream of tartar is a familiar example of this class of drug.

Hydrocele. A dropsical condition of the scrotum, due to inflammation of the serous lining membrane, which usually calls for surgical attention.

Hydrocele. A dropsical condition of the scrotum, which usually calls for surgical attention.

Hydrochloris Acid. Also called "spirits of salts" and munatic acid, is a compound of one equivalent each of chloride and hydrogen, obtained by distilling common salt with sulphuric acid. Used in medicine in a diluted state.

Hydrocyanio Acid. The technical name of the scheduly poisonous prussic acid, a very valuable ingredient of some medicines, in small and careful doses. It acts as a stomachic sedative properly applied, and is one of the compound of hydrogen and cyanogen.

Hydrocyanic acid is a compound of hydrogen and cyanogen.

Hydrocyanic acid is a compound of hydrogen and cyanogen.

Hydrocyanic acid is a compound of hydrogen and cyanogen.

Hydrocyanic acid is a compound of in a pure state; if forms the ninth part in weight of water, and enters largely into the composition of all animal and vegetable

bedies. It burns with a pale yellow flame, and in its enabustics unites with oxygen, forming water. Combined with supplur, its forms sulphuretted hydrogen gas, subable in water, but deadly on inhalation.

Hydrogen places in Coppy of the kidneys.

Hydrogen places in the method of treatment in seedleine in which the external application of water, by bandages, compresses, douches, the body and trank, pack and baths, hot and cold, is relied on; the administration of hot and cold water, medicated or otherwise, internally, being supplementary. It is a valuable hydrelic system, especially where judiciously emfloyed in alliance with skilful general therapeutic practice.

Hydrophobia. Disease caused by the bite of animals, dogs, woives, and cats, in a rabid state, and specially characterised by the dread of water, whence its name. It is only conveved by inculsive in the categories of the control of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories of the categories Eyderphobia. Disease caused by the bite of animals, dogs, wolves, and cats, in a rabid state, and specially characterised by the dread of water, whence its name. It is only conveyed by inoculation direct from the fanges of the affected animals to the human blood, and may appear in a bitten person long after the appearance of the wound. An uncasy, tingling sensation appears in the neighbourhood of the injury and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control

race, apply ammona to her nearms, and administer anti-passodics.

Icher. A this watery humour discharged from an ulcer, acrd and irritating. Unless cleansed away or absorbed by an antisoptic it will retard healing and spread the sore from which it proceeds. The raw surface of the wound which excretes icher should be gently washed or dabbed with dilute carbolic acid, ledeform, or, preferably, ariscol being thereafter

lodoform, or, presency, asplied.

Inhibyonia. A disease of the skin which develops scaly surfaces not unlike the skin of a fish. This diagraeable disorder is often hereditary, and it is more frequent in certain districts than elsewhere. It is very intractable to treatment. Sufficers therefrom should

regulate their dietary so as to keep the blood as gure as possible, and indulge but little in very salt or highly sessoned food.

seasoned food.

Ilias Passion. A distressing aliment in which, owing to the obstruction of the bowels, the food returns to the stomach, and is afterwards vomited. There are griping pains and abdominal spasms. Waga baths and hot fomentation may afford temporary railer, but these cases require prompt and skilful medical treatment, as illas is more a symptom than a

The last portion of the small intestines.

hence also iliac region.

hence also like region.

Imperial Drink. Is the name by which a mild laxative with an excellent effect upon sluggish kidneys is known. It is made by pouring a pint of boiling water over a slived lemon and half an ounce of cream of tartar. After cooling, strain the fluid, which is always useful as a refreshing drink in slight fewerishness and in cases where the urinary secretion is at all defeited.

Impetigo. Is a cutaneous eruption, attended by itching pustules of a yellow colour, which become crusted and scaly. It has affinity with eczema, and arises from a vitiated condition of the blood requiring medical treatment. Local relief may be obtained from the use of an ointment containing nitrate of mercury, culture and characteris.

the use of an ointment containing filtrate of mercury, quinne, and chrysarobin,
Inclisors. The cutting or front teeth,
Incontinence of Urine. Is frequently met with in young children, and during debilitation from old age or disease. It may be the result of neglect and undisciplined habit, but is more frequently due to weakness or spasm of the muscular sphincter of the bladder. In that case graduated doses of perchloride of iron will be found strengthening and corrective. Worms and constipation are often contributory causes of incontinence of the disagreeable character, so that the condition of the bowels should always be regulated where it occurs. where it occurs.

Indigastion. Indigestion is answerable for a pre-ponderating proportion of the ills of the flesh, and it is almost entirely a preventable condition. If individuals almost entirely a preventable condition. If individuals would systematically conform to a well-considered dietetic regimen, based upon adaptability to their constitution, and the circumstances of their avocation and environment, and would, moreover, give full attention to a daily and complete clearance from their bodies of the waste products of food, indigestion would coese to trouble and dyspepsia vanish. Treat the stomach well, and it will serve you efficiently unless organic disease be existent, when there must be specific medication in accordance with the particular

Infantile Fever. A remittent febrile complaint,

Infantile Feyer. A remittent februs complaint, common at teething time with babies, and usually called "Worm Feve?" Worms may accompany the ailment or any other functional disorder of childhood, but this particular description of low fever is due not to the intestinal marauders, but to the constitutional disturbance attendant upon difficult dentition. Get the bowels gently and thoroughly cleared as quickly as you can, give a slight dietary and warm baths, combat the fever with nitre and inacac, and quench the thirst with increater. If there be convulsion complications, get the doctor to prescribe specially, and follow his prescriptions. For the rest, nursing care must be relied on.

Infants. Warmth is very necessary to the young infant, therefore let it be comfortably clad from birth onwards, frequent changes of fannel, as soft as posable, being supplied. Let the washing of the child be carefully and systematically attended to, all the fastenings of its dress being easy, and see to its whole some and regular feeding, with reast that a the same and regular feeding, with reast that the same and regular feeding and thereafter, rationally selected and digestible dietary. Let it sleep in a well-ventilisted apartment, out of all draughts, in a crib of its own. Keep its bowels in regular action. Give it as much out-door exercise in the sunshine as the weather will permit. Do not wake it from along for exhibition purposes. If it become cross and cry, find out the reason and remove it. The fault is usually yours, or

the child's. Be regular in all your attentions to baby,

the child's. Be regular in all your attentions to baby, and baby will grow up to good habits. Do not try to get it on its feet prematurely, but let it lie on its back on a rug or nattress and kick and crow to its hear's content, afterwards giving it freedom to creep and crawl, properly clad. Do not try to "harden" it by exposure. Do everything you do in its behalf with deliberation and thought for the years to come.

Infaction is contradistinct from contagion, in that the latter term implies the actual touching of the person suffering from communicable disease. Infection may come through the medium of air, water, or clothing, etc., but is chiefly the result of the inhalation or swallowing of germs. This may be rendered the less likely by cautious approach to an infacted subject, and keeping the mouth closed is consequently advisable when one knows danger to be existent. Breaths through the nostrils only, and do not swallow the visable when one knows danger to be existent. Stratus through the nostrils only, and do not swallow the saliva, making use of suitable disinfectants in a suitable way. Thus an infectious case may be visited by a person in robust health without disastrous results. There is always the risk that the ubiquitous microbe may find its way into your system, but the more care you exercise, the less likely will it be to make harmful incursion. (See Contagion.)

you exercise, the less likely will it be to make narminal incursion. (See Contagion.)

Inflammation. A redness and swelling in any part of the body, and usually attended by considerable heat, pain, and fever, with more or less engorgement of the blood vessels. It may arise from the direct introduction of some poisonous matter, or be occasioned by the absorption of septic material from without. It is a very frequent cause of both structural and functional malaslies, and should be medically attacked at its inception to prevent complications later. In external inflammation the redness varies considerably in intensity as in extent. A line of demarcation between the hinflamed and healthy surface is mostly wanting, the redness shading gradually off into the adjacent and normally coloured skin. In erysipelas the inflamed tract may be very large. Increased heat in the affected part is apparent to the touch, or demonstrable by the clinicf. thermometer; and, curiously, inflammation usually produces a higher temperature at the extremities, situated at the greatest possible distance from the centre of the circulation, than elsewhere. Swelling will be variant from the hardly raised surface of erysipelas to the nuch obstructed elevation of the abscess or carbuncie. In soft surfaces there is relatively leave auditor, in lufammation, as the holl on the lin; abscess or carbuncle. In soft surfaces there is relatively large puffing in inflammation, as the boil on the lip; while when it occurs under hard fibre, as in the whitlow while when it occurs under nard nore, as in the whiled of the finger, there is pain with little to show for it until the purulent matter makes its escape by the side of the finger nails. Deep-seated inflammation is most difficult to sombat, of course, and most productive of painful disturbance. In the tissues below the true skin there is throbbing and intermittent heat with the pain; tnere is throubing and intermittent near with the pain; superficial inflammation induces 'techning and tingling, sometimes, as in ophthalmia and erysipelas, to an almost intolerable degree. If the seat of inflammation be a soft pair, as what is styled the root of a tooth, embedded in firm tissue, the pain is very severe, and eye inflammation within the tough sclerotic coat are often agonising. In a depending part, as the foot, the pain of inflammation is more intense than where the blood flows freely' hence posture is very important in palliative treatment. Internal inflammation is denged by local pain and tenderness over its region, with increased heat and functional disturbance, thirst, and dry feverishness without, accompanied by failure of appointe. Inflammation may be acute or chronic. It ends either in subsidence or a suppurrating swelling of a species in the subsidence or a suppurrating swelling that the subsidence or a suppurrating swelling that the subsidence or a suppurrating swelling to empty it of its contents. The boll or abscess may be healthy, and quickly accomplish its exercing work or it may be sluggish and continue long, according to the nature of the mischief which induced the inflammation. Or the inflammation may proceed to ulceration superficial inflammation induces itching and tingling, the nature of the mischlef which induced the inflamma-tion. Or the inflammation may proceed to ulceration of a more or less expansive character, such ulceration speedity coming to an end or yielding to treatment, else assuming an "Indolent" and lingering form, and in cases exception of the companion of the companion of the gangreen and mortification will in due course supervene,

so that it is plain with what importance inflammation dught to be regarded. In modern views inflammation is regarded as the effort on the part of the body to throw off the poisonous or septic principles which have produced a diseased state.

The violate of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commencing features of the allment. The disease is of very frequent occurrence in Northern Europe, hence it has come to be called Russian influenza commence of the commencing features of the commence of the commence of the commencing features of the allment. The disease is of very frequent occurrence in Northern Europe, hence it has come to be called Russian influenza of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the c

change of air is very beneficial in the convalencent stage.

Infusion. The extraction of the active principle of substances by the agency of liquid without actual boiling, the latter process being termed decoction. Infusions employed in medicine include sensa, cinchona, calumba, calomel, gentian, quassia, hop, broom, buchu, uva, ursa, and senega. Tae is a dietetic and stimulant infusion, and should never be left to "draw" for more than four minutes at the outside, or gummy matter and tannin will enter excessively into the infusion and prove injurious.

Inguinal. Pertaining to the groin, as inguinal glands, etc.

glands, etc.
Inbalation of medicated vapour is very useful in

glands, etc.

Inhalation of medicated vapour is very useful in allments of the respiratory organs. An ordinary jug or the brouchtisk kettle will serve for the generation of the soothing steam, or there are various forms to inhaler obtainable at the pharmacies. Camphor, eucalyptus, menthol, terebene, pumulme, chloride of ammonia, sulphurous (inot suiphuric) acid, and other volatile vapours are all serviceable in this form of treatment; and oxygen is sometimes administered by inhalation in grave cases with immediate good effect. Inhalation is also the chief method of producing ansistsevia prior to surgical operations.

Injection. Throwing or forcing a fluid into the body, as by a syrings. Used in injections into bowal. Incommentation is the introduction of a foreign substance into the system by means of a wound, as the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co small-pox, the researches of Pasteur and other scientists have led to the subcutaneous injection into healthy bodies of modified poison of diphtheria, tetanus, anthrax, pleuro-pneumonia, hydrophobia, and other diseases of man and animals, for the purpose of rendering their systems impervious to subsequent attacks of the malady thus in a mild form introduced. The inoculation idea met at first with very considerable antagonism, but it has made immense headway.

Inosculation. The unno of two vessels of the animal body at the extremity, by contact or perforation of their sides.

of their sides.

Insects. (See Stings of Insects.)
Insects. (See Stings of Insects.)
Insects.
Insects. (See Stings of Insects.)
Insects.
Insects. (See Stings of Insects.)
Insects.

Insorumia. Complete loss of sleep is one of the most troublesome aliments with which the doctor has to deal. Seadtive drugs are dangerous. Change of alr, scene, and occupation are usually the best correctives of prolonged sleeplessness. Regular hours, a well-ventilated sleeping apartment, proper dietary, and sufficient exercise will usually prevent haomais Where it has established itself, seek the advice of the physician, and followin, or you will "wear out" through want of sleep. A mattress or a wire bed is better than one of feathers in insomnia. Ward it off as much as you can, for it is often a sign of incipient insanity, which "tired Nature's awest restorer," if wood back again, frightens away.

inspiration. The act or drawing air into the langs. Sixteen to eighteen a minute should be the regular number of inspirations in a healthy adult, and this is about what is requisite for the proper grydisation of the blood. When the lung tissue is impaired, the number of inspirations are increased in order to enable them to accomplish their work. When breathing is more rapid than normal, and the circumstance is not due to a temporarily exciting cause such as streamous exertion, then lung disease, or mischief in some of the contributory respiratory organs, may be suspected.

wan both commute to interterence wan regular pulsation.

Intertrigo. A species of crythems, or morbid skin redness, induced by attrition or chaing. Seen in infants often between thighs and buttocks.

Intestine. The digestive canal, extending from the stomach to the anus. In the intestine digestion is completed. The extreme length is twenty-six feet. The intestine is primarily divided into large and small, and the latter into the duodenum, lejunum, and ilum. The large intestine ending at the anus is again divided in scientific terminology into the execum, colon, and rectum. Attached to the execum is the vermillorm appendix, four to six inches long, about the thickness of a grosse quilt, ubular, and forming a cut thickness of a grosse quilt, ubular, and forming a cut of an appendix of the spendage; but it is frequently the seat of dangerous inflammatory disease, as are also the tissues surrounding it. This gives the condition of appendicitis and allied manadles, sometimes requiring operative treatment. it. This gives the condition of appendicitis and allied maladies, sometimes requiring operative treatment. Numerous diseases affect the intestines proper, as catarrh, ulceration, rupture, stricture, inflammation, impaired muscular action, or atony with hemorrhage, such as is frequent in typhold. The rectum is liable to cancer, stricture, pless, and fistual; while the anus may be the seat of fissure and pruritis, a most irritating alment characterised by itching. The individual diseases of the intestines, of their causes, as well as treatment, are doalt with elsewhere.

**Insurentage of the pushed in an inself; or, an anterior process of the assimilation of food.

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Inuaction. This is the process of rubbing in an ointment upon the skin, to obtain its absorption through the membrane. Ointments thus made use of are usually of an anodyne or narcotic character, such as cocaine, or an anonyme or natrotte, retrieved as cocaine, morphia, or atropine; or they may be mercurial, or mainly composed of locine or some form of sulphur. Irls. The coloured circle surrounding the pupil of the eye, opening and shutting according to the amount of light necessary to be admitted to the retina. (See

of light necessary to be admitted to the Februs. [Gree Eyes].

Initias. Infammation of the iris.

Itohs. A very disagreeable and irritating cutaneous disease, sometimes colloquially called "scaly tetter," but scientifically styled prorissis. It is an eruption of but scientifically styled prorissis. It is an eruption of but scientifically styled prorissis. It is an eruption of but scientifically styled prorises. It is an eruption of but scientifically styled provided to the scientifical scientifically styled provided to the scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifical scientifi

immediately commence egg-laying on their own account, the process setting up a torturous irritation upon the skin of the involuntary host. The softer and tenderer parts of the cuttle are selected by the Acarus for its incubatory enterprise, as the abdomen, the forearm, the back, and between the fingers. The aliment is highly contagious, but once contracted may be got rid of by a thorough-going remedial course. This consists of well rubbing the body, and especially the affected parts, with soft soap, plunging into a hot bath, soaking and washing and then rubbing briskly till day. This topens the pores, and softens the skin. Now apply strong sulphur ointment or a lotion made of subdy. This topens the pores, and softens the skin. Now apply strong sulphur ointment or a lotion made of subdy. This topens the pore, and patiently where the inch troubles. Let it for freely and patiently where the inch troubles. Let it for the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy the subdy

ciothing which has been near your itching skin by fumigation or otherwise.

James's Powder. A preparation of antimony much in vogue at one time in the treatment of febrilies in the present of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property o

Joints, or articulations, are the unions or junctions

absorption of nutritive matter,

Joints, or articulations, are the unions or junctions
of any two adjacent parts of the body; but generally
the term is taken to signify the connection established
between contiguous bones. Joints, knitting the bones
together to form the skeletor of the frame, may be
either movable, immovable, or mixed.

Jugal Bone. The cheek bone.

Jugular Velns. Those that run on the sides of
the neck below the ear, and by union with the subclavian, form the superior vena cava. They convey
the blood from the head and face back to the heart;
injury to these large veins is always serious, not alone
because of the heniorrhage which may be occasioned,
bug on account of the liability of the admission of alir
to the heart by the exhausting action of the right
auricle. These vessels are frequently wounded in
attempted murder or suicide by throat cutting, and in
the old days a continual venesection bleeding was
sometimes surgically practised from one of the jugular
veins.

veins.

Kesping out Cold. (See Cold.)

Kidneys. These organs lie in the lumber region, on either side of the spine, just below the liver, their upper end being in contact with the lower side of the diaphragm. They are about four inches long and two and a half inches wide, and are chiefly composed of fine tubes enclosed in a firm, dark red, librous capsule. Above each kidney is an organ called the suprarenal body, affected in "Addison's Disease." The function of the kidneys is the secretion of the urine from the blood. The kidneys are supplied with blood vessels

which proceed directly from the aorta or main bloodvessel of the body. The glandular structure is so
arranged that the ducts lead into a cup-like cavity
called the pelvis or base of the kidney, which is continuous with the ureter, the tube leading to the bladder
at the bottom of the abdominal cavity. The kidneys
are subject to many important diseases.

King's Evil. An old name for scrofula, arising
from the once prevalent superstition that the touch of
a royal finger would cure the malady. Its distinguishing characteristics are enlargement and suppuration of
the neck elands, often occasioning unspirity and

ing characteristics are enlargement and suppuration of the neck glands, often occasioning unsightly and indolent ulceration of the eyes and eyelids, with intolerance of light and copious tear-flow (a condition termed strumous ophthalmia) and wasting disease of the bony tusues and cartilage, particularly in the neighbourhood of joints, often giving rise to deformity. Labla. The lips of the mouth; the red part is

called the prohability, and the cuttele epithelium.

Labyrinth. That portion of the internal ear consisting of the cochlea, or "snail shell"

Laceration. The act of tearing asunder, hence wounds in which the tissues have been torn are termed Such wounds should be cleansed thoroughly as possible immediately after they have been sustained and dressed with some anti-septic such as carbolic acid in solution. A dusting of aristol, lodoform, or boracic acid may then be applied and the

iodoform, or boracic acid may then be applied and the wound bound up.

Lachrymal Gland. Tears are secreted by the lachrymal gland, seated above the eyeball on the side nearest the temple. A continuous if imperceptible tear-flow goes on might and day from the glands, through the ducts, over the surface of the pupil and eyeball, into the canals in the inner corner of the eye, and away into the nasal duct. This constant lachrymal flow gives the eye its limpid brightness and keeps it clear for its visual work.

clear for its visual work.

Lactation is the secretion of milk in the mammary glands or the act of giving milk to the child. Should there be an absence or deficiency of the fluid, or the mammary glands remain inactive after parturition, somegimes the application of a poultice of castor oil leaves will promote lactation, and prevent fever or other trouble arising from "milk flying about the system." A deficiency of milk, however, is generally very difficult of remedy.

Lactatals. The lactesis ones on the inner side of

Lauteals. The lacteals open on the inner side of the intestines, and suck up the chyle, the milk-like fluid from which the blood is formed, conveying it to the thoracic duct. They rescue the nutritious properties of the food from the innutritious, at the proper moment, and receive it for the replenishing of the system,

proper moment, and receive it for the replemshing of the system.

Lagophthalmia, commonly called "hare's eye," a disease in which the eye cannot be shut.

Laryngitis. Inflanamatory affection of the larynx or organ of voice, geneally resultant upon exposure to cold; but it may arise from erysipelas, tubercular ulceration, diphtheria, or intemperate habits. The symptoms of acute laryngitis are hoarseness, or complete loss of voice, a peculiar barking kind of cough, a choking feeling in the throat, pain and difficulty in swallowing, noisy and impeded breathing, scanty expectoration, and general feverishness. Unless these symptoms subside viar releved the lips will become livid, the nostrils expand, and suffocation threaten. Delirium and coma will follow and collapse bring about death after cedema, or swelling of the glottis has occurred. Chronic laryngitis is not so violent in its symptoms, and the acute form may, after reaching a certain stage, become chronic. Acute laryngitis requires watchful medical care, the chronic variety may often be greatly relieved by the inhakations of scothing vapour, as that of pine, dipentine, or creoote. Tonics, especially muriatic acid, and suitable continues to the continue and the continues of probang, with bel-chloride of mercury, or dilute aliver airrate, a delicate operation that may afford in cases immediate relief.

Laryngictomy. (See Bronohotomy.)

Laryngotomy. (See Bronchotomy.)
Larynax. The upper part of the traches or windsipe, the organ of voice containing the vocal cords. It

is a cartilaginous cavity, its upper opening being styled the glottis. Through the larynx or vestibule of the windpipe must pass the whole of the air drawn into the luggs by inspiration, and subsequently exhale therefrom. It consists of the thyroid cartilage, the crooldes, the epiglottis, the arytenoides and the vocal bands, and altogether forms a beautiful and complex

bands, and altogether forms a beautiful and complete of machinery.

Lens. The crystalline lens of the eye lies behind the pupil. The shape of this transparent body and its position have the most important bearing upon the faculty of vision, and opacity produces cataract. Its use is to accommodate the eye to vision at different distances

Leontiasis. An affection analogous to elephanti-asis, but occurring in the face, and supposed to resemble

the visage of a lion.

Leprosy. Is a very hideous disease, commencing with inceration and thickening of the skin surfaces, attended by a febrile condition, and developing into incurable sores which gradually eat the flesh away and reduce the sufferer to a loathsome and inexpressibly reduce the sufferer to a loathsome and lnexpressibly wretched state. It occurs mainly under insantary conditions and in unhealthy clunates, and it is a disease of hereditary character, by some reckoned contagous. Happily it is much less frequent than was formerly the case, It is scaly in the early stages of the eruption, and productive of intolerable itching. Leuce. A cutaneous disease of white patches on the skin, common in hot clinates,
Leucoma, or albugo, a white opacity of the corpose of the eve

cornea of the eye.

cornea of the eye.

Leucorrhoa. The "fluor albus" discharge in females, commonly called "the whites"

Leukemia, also Leucocythcemia. A morbid condition of the blood characterised by a large increase of the white corpuscles, and a corresponding decrease of the red ones. It is consequent upon debility, and generous dictary, wood sea air, and iron medicinally are requisite for its correction; the name of the discase is sufficiently described. It similes "white ease is sufficiently descriptive. It signifies "white blood."

Ligaments. Dense white fibrous bands, resembling tendous, which hold the bones together at the

bling tendous, which hold the bones together at the joints. They are of various breadths, and sometimes so interwoven as to form a wide layer entirely surrounding the joint like a bag. Then they are called capsular ligaments and serve to prevent the escape of the synoval lubricating fluid.

Lightning. A person struck by lightning should have cold water dashed over him immediately after experiencing the shock. Sal volatile or brandy may be administered as a stimulant, and artificial respiration employed if necessary, as in drowning, or suffocation cases. Keep away from trees or the sides of a tall building in a thunderstorm; the open is safer.

Lignum Wites. The resin of this wood is used medicinally with some benefit in "cold" chronic rheumatism.

rheumatism.

Lip. The colour of the lips arises from their being covered by an extremely vascular mucous membrane. In anæma they are pale; when the blood is insufficiently in alcental tries are pair; when the book is absoluted in clernty oxygenated, at in pneumonia, the lips become livid. They are lable to herpes or watery cruption, to fissure or cracking, and also to cancer, which so. Lipoma. A soft fatty tumour.
Liphiasis. Stone or gravel in the kidneys or

Lithotomy. Cutting into the bladder for the extraction of calculi.

Lithotrity. The operation of crushing stone in

Lithotelsy. The operation of crushing stone in the bladder.
Liwar. This is the largest of the glandular structures of the body, and attains an average weight of between three and four pounds in the adult. It is easily thrown out of order by constipation or when anything interferes with the heart action. Alcoholic excesses work very great mischief in the liver, which is besides subject to many aliments such as enlargement, congestion, cirrhosis for nutmeg liver, inflammation for the substance or connective tissues), abcess, and atrophy, all of which require very careful medicate treatment. Sluggishness of the liver, always a cause of trouble, may be indicated by a paucity of bile in the

faces and an excess thereof in the urine. hamorrhage occurs in acute atrophy, or wasting of the liver, death generally follows quickly.

Lookia. The discharge following partugition or

Lookjaw. The popular name of tetanus, the severe spasm of which affects not the jaw alone, but all the muscular system more or less. It is due to the the muscular system more or less. It is que to me introduction through a wounded surface of a specific germ which acts violently upon the nervous organisation. Chloroform vapour and chloral are employed remedially, but this dreadful disease always requires the most prompt and careful medical treatment. symptoms are almost identical with those of stryclinine poisoning, and mclude crampy pain about the neck, jew, and throat, twitching of the facial muccles, cul-minating in stiffening or cramping of all the body. Acute cases are usually beyond the reach of curative

Loins. The lumbar region, that portion of the backbone between the upper edge of the haunch hone and sacrum, and the last dorsal or back vertebra.

and sacrum, and the last dorsal or back vertebra.
Lumbago attacks the muscles of this part.
Lumbago. A specific kind of muscular rheumatism
attacking the lumbar or loins region. The excruciating
pain of this often intractable malady often comes on guile suddenly. Local treatment will afford rehef.
Warm baths, and vigorous daily embrocation will
camphor limiment, turpentine, and olive oil, or soap
lumment in combination with opium are all palliative.
Morphia injected subcutaneously will frequently over-

come obstinate lumbago attacks.

Lumbar Region. The seat of lumbago, and in delicate children often of abscess. Abnounal sensations

of pain in this part may often be symptomatic of fever, small-pox, influenza, or other inflammatory aliments.

Lumbrical. A muscle of the fingers and toes, worm-like in form, increasing the flexibility of the long

fexors.

Lumbrious, better named the Ascaris or "Round Worm." An intestinal worm, in some respects resembling the common earthworm in size, which may be removed by the administration of santonin in two to six grain does in milk, preceded and followed by castor oil purgation.

Lumar Caustic. Nitrate of silver, a ready and opoular cautersing agent, employed as a lotton in

popular cautersing agent, employed as a lotion in certain forms of ophthalmia, when it has antiseptic as well as caustic action. It is employed when what is known as 'proud flesh' appears in the granulations of a wound any let the determine the property of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the

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bronchitts, asthma, and consumption, while gangrene and cancer in the organ are of less frequent occurrence. All these are dealt with elsewhere.

Lapus. A tubercular disease of the face and nose, very destructive to the tissues. It appears in red patches, which are slightly raised above the skin surface and give off an offensive odour. Without actually elsewither these natches offen present points of great. ulcerating, these patches often present points of great irritation, but in very bad cases the tubercles both ulcerate and scar deeply. The X-rays and Finsen light rays are now used as a cure. Lupus is generally an inveterate disease so long as lowness of the system

Lymph. A fluid of the body consisting of the fluid part of the blood, and carried within the lymphatic or

part of the Diood, and carried within the hymphacic or absorbent vessels.

Malarial Fever. The febrile complaints on classed consist of intermittent fever or ague, remittent fever, and yellow fever. There are three forms of the former, the quotidian, the tertian, and the quartan, so distinguished according to the length of the intervals. distinguished according to the length of the intervals between the paroxysins. Remittent fever has many names, arising from the localities from which it originates or in which it is prevalent. Yellow fever is a peculiarly dangerous and markedly characteristic description of malarious disease, most met with in the slands of the West Indies, South America, and the

Mainutrition. Malnutrition is the condition in which the body is ill nourished and supplied with imwhich the body is ill nourshed and supphed with improper food and impure air. It is a condition often caused by or contributed to by criminal carclessness, but much oftener one of the "evils which are wrought by want of thought as well as want of heart," as Hood duts it. Children are the chief sufferers beront happily, hygiene and the law are working together strenuously to stay the slaughter of the uniocents and to circumvent the fell doings of the twin murder monsters, ignorance and apathy.

Marasinus. Atrophy, wasting away from various causes.

Mastication. The chewing of the food, a very mastication. The chewing of the food, a very important preliminary to digestion, and very often insufficiently performed, to the detriment of the delinities share is thrust upon the stomach, and there is danger of indigestion and disorder. Mastication mixes the salva of the mouth with the food, after the teeth have done their cutting, and chewing or "champing" duty, and gives the food a good start on its digestive

Mastitis. Inflammation of the mamme, or female

Maw-worm, a species of thread-worm lodging sually within a few inches of the end of the bowel. stanly within a lew inclies of the end of the bowel. Repeated injections of salt and water will generally remove the pests. They are more troublesome to children than adults, and to gris than boys.

Maxilla. The jaw: the lower jaw is removed maxilla inferior, the upper maxilla superior; hence maxilla inferior, the upper maxilla superior; hence maxilla inferior, the upper maxilla superior; hence maxilla inferior, the properties of the paw.

affecting children, and rarely occurring to any person more than once in a lifetime. The erution appears on the fourth day and ceases on the third subsequent day by desquantation. Measles require fourteen days from the inoculation to attain maximum intensity; from the inoculation to attain maximum intensity; that is eleven days will elapse after contact with the poison germ before the characteristic "spots" appear. The first symptoms are catarrhal, sneezing and running of the nose, watering of the eyes, with a short hard kind of cough. Febrile conditions follow, a quickening pulse, accompanying increased temperature, and perhaps alternate shivering, headache, and logs of appetite. On the time of rourth day after the illness has been marked, the mottled rash shows on the face writer ankles new, chest and hody centerally. face, wrists, ankles, neck, chest and body generally. It consists of distinct reddish-purple "spots" slightly raised above the skin surface, and clustering in groups, raised above the skin surface, and clustering in groups, often with a cresentic or horse-shoc kind of arrangement. The eruption subsides in three days or so, and has generally all gone by the end of a week leaving the skin slightly rough. As the cuticle peek the patient should be bathed in suitable disinfectant solution daily. Nursing, warmth and low diet, with particular attention to the bowels, constitute the essential treatment of measles.

**Magrim or **Magrains**. "The Megrims," is a neuralgic pain in the side of the head, of a peculiar character, periodical, and induced by stomachic disorder. It is generally confined to one side of the head, and chiefly affects the temporal nerve, being

accompanied by giddiness. Constitution, causing sluggish liver, with the general health low, are the conditions usually antecedent to megrim. Two grains of caffeine combined with eight of phenacetin, will generally, if repeated at intervals of four hours, relieve this pointuit affection better than quinine.

Methorntus's Glands.—Small glands between the conjunctive of the eye and the cartilage of the eyelid.

Melanosis. A malignant disease, characterised by the production of black or brown matter on various external parts of the body. Melas, a variety of this malady is endemic mostly in Arabia.

Membrane. A thin flexible substance investing many internal portions of the body; also occurring many internal portions of the body; also occurring externally as on the eye and ear. The nucous membrane sines the alimentary and air passages, the serious membrane spreads over the joints and abdominal and thoracic cavities, and so on; while the apidermis or cuticle is the membrane forming the outer layer of the skin.

sayer of the skin.

Meningitis. Inflammation of the covering membranes of the brain and spinal cord. It may be caused by injury to the skini, blood-poisoning or sunstroke, and is frequently fatal.

Menstrual. Pertaining to the menses, or monthly

manstruli. Pertaining to the menses, or monany female flow during the periods of puberty.

Manthol. A volatile gum which remains after the distillation of the essential oil of peppermint. It is possessed of amesthetic properties, and has the power of producing temporary nervous parity is on application and is thus beneficially employed in the palliation of

and is thus beneficially employed in the pulliation of neuralgic pun.

Maphitios. Vapours, gases and exhalations, which are not merely offensive but often noxious and destructive. Frequently they are the outcome and evidence of decomposition. Carbonic acid gas, the fatal 'chokedamp' of ill-ventilated mine-, is a characteristic exhalation of this polsonous character, and has been appraisely termed 'mephitic gas.'

Maprill' The metal quicksilver, very largely used in medication. Mercurials, as blue pill, calomels, etc., insmall doses increase the secretions, especially that of bile, and favour the absorption of morbid products, or promote their elimination from the body. They are valuable, skilfully applied, in inflammations, congestions, rheumatism, and dropsics.

Masantary. The broad fold of peritoneum, of

gestions, rheumatism, and dropsies.

Reamtary. The broad fold of peritoneum, of lining membrane of the cavity of the stomach, attached to the vertebræ of the loins, enclosing and sustaining the smaller howel. It contains many important blood vessels and numerous glands. The mesentery is subject to disease a great deal in childhood. Children "out of sorts" with furry tongue, unploavant breath, and disordered howels, will sometimes lose flesh rapidly and unaccountably, the appetite remaining unline paired. The abdomen will enlarge, though the arms and legs waste and the features stirnik. This is a strumous condition brought about by mesenteric trouble and will, unless overcome, very likely develop dangerous diarrhea and convulsions, and end in exhaustion. The glands of the intestines must be restored to a healthy state by constitutional treatment before any healthy state by constitutional treatment before any marked improvement can occur.

Metaoarpus. The portion of the hand extending from the wrist to the fingers.

Metaoarba shades the shifting of a disease from one part of the person to another. In mumps the disease often shifts from the mouth to the female breasts or male testicles.

Metatarsus. The middle of the foot, between the

Matatargus. The middle of the foot, between the toes and the ankle.

Miagma. The unhealthy effluvia or exhalation which occurs in hot and swampy countries, and strikes down with ague or other dangerous disease those unacclimateed.

Microbe. A term analagous in meaning to that of "germ" an organism infinitesimally small, but instinct with life and the power of multiplication in the human system. Germ, bacteria, bacillus, microbe, micro-organism, are all practically synonymous. (See Gapm.)

arm.)

Micturition. The passing of water from the bladder.

Middle Ear. The middle ear is an ear cavity between the external and internal ear or labyrinth, and comprises the Eustachian tube, which connects it with the upper part of the throat, and the mestoid portion of the temporal bone. It is the seat of most of the diseases of the organ of hearing, the compli-cated drum cavity being particularly liable to become

cated drum cavity being particularly liable to become disordered.

Milk. The mammary secretion of female mammalia, naturally designed as the first food of their young. It suffices for all the alimentary requirements of mancy, and is capable of sustaining adult life for an indefinite period to an extent exceeding that compassable by any other known food substance. The milk of the cow can scarcely be over-rated as a nutritious article of dietary, its digestiveness being also a great recommendation. This is increased by the addition of a proper proportion of water, by judicious culinary preparation, and by the introduction of a little sait. A feverish patient to whom solid food would be most harmful will obtain sustemance from the iced milk with which his thirst is assuaged, anabling him to tide over the crisis.

from the iced milk with which his thirst is assuaged, enabling him to tide over the crisis.

Milk Fewer. This very troublesome affection, which occurs only at a period a little subsequent to childbirth, has more to do with a febrile condition induced by absorption of fortif marter into the blood than it has with any lactiferous disturbance, though it may of course occasion the latter. It should be regarded as a light form of puerperal fever, and treated accordingly. Simultaneously every endeavour should be made to establish the secretion and flow of the milk comtring the breasts as frequently and Should be made to essaying the breasts as frequently and the milk, emptying the breasts as frequently and thoroughly as possible. With the subsidence of fabrills symptoms the painfully distended mammary glands will regain normality. Iced lemonade syx-ringly given will have salutary effect when the thirst of the patient

Misoarriage occurs sometimes without warmin though it is commonly preceded by sight pains in the back and abdomen, with an unexpected discharge, and considerable hiemorrhage, continuing for several days. Rest is requisite, and very careful medical treatment, or the foundation of much future mischief may be

laid.

Mole. A permanent coloured spot, or a small polypus, on the skin. The first is occasioned by pigmentary deposition, and either may be more or less unsightly, if it occur upon the face or neck. It is not slways safe to have a mole removed, as cancerous disease may develop upon its site. They may be ligatured away without danger in cases, or eradicated by painting with iodine.

Monkahood. The common plant from which the poisonous drug aconite, nuch employed in the treatment of neuraliza, theumatism, and drops, is

ment of neuralgia, rheumatism, and dropsy, obtained.

obtained.

Morphia. A very powerful and exceedingly useful alkaloid anodyne, obtained from opium. For certain particularly painful ailments it is given by the mouth in doses of one-eighth to a quarter of a grain; it is administered by the bowel in the form of a suppository in quarter to half grain doses; and it is hypodermically injected in doses commencing with the sixth of a grain strength, and increased to a quarter of a grain when pain is persistently severe.

Mortification is a term usually employed to

quarter of a grain when pain is persistently severe.

Mortification is a term usually employed to signify that death has taken place in some one part of the body only. The appearance of mortification in any member is blackening of the dead part, which is separated from the still vital tissue by a bright red line of demarcation. An offensive odour is exhaled from the dead tissue. When mortification is present there is great prostration, and the case calls for prompt survival interference.

is great prostration, and the case calls for prompt surgical interference.

Muoous Glands. These are minute bags formed by a delicate and peculiar membrane, opened by interoscopic ducts, through which they discharge their libricating contents over the jongue, windpips, stomach, intestines, nose, bladder, etc.

Muoous Membrane. A smooth and tender covering of the internal organs generally, secreting the gluthous mucus which forms its protection. When the mucus is excessive, we have the catarrhal condition. The mucous membrane is soft and velvet like,

pale pink in health, and deep red on inflammation. It never forms adhesions, but may be the subject of

extensive hemorrhage.

Eugus. The viscid secretion thrown out ever the mucous membrane. It is composed of numerous globular cells floating in fuid, and increasing in quantity upon irritation up to a point, but becoming paralysed upon extensive disturbance. Thereupon the flow of mucus ceases, and the membranes are marched and naputh Excess of mucus caused by pararyses upon extensive disturbance. Thereupon the flow of mucus cases, and the membranes are parched and painful. Excess of mucus, caused by cold or otherwise, creates phiegm, and coughing is set up to get rid of the accumulated matter.

**Mulbersy** Calculus.** A unnary concretion of oxalate of line, functifully considered to resemble the

mulberry in form.

orange of little, machinity considered to resemble the mulberry in form.

Mumps. A kind of quinsy caused by swelling of the parolid and other salivary glands of the neck, and accompanied by feveristness and pain, especially on the opening of the mouti and in swallowing. The malady is usually confined to one side of the face, but may attack both sides simultaneously, and occasion much inconvenience and temporary deformity. Mumps are highly contagious, and frequently epidemic amongst school children. Hot fomentations will afford relief, and in severe cases the application of leeches may be desirable.

Musoles. Such parts of the fleshy portion of the body as cause motion, bend, relax, contract, and otherwise affect activity. They correspond to what we term the "lean" of meat. Voluntary muscles are those subject to the will, as of the face and limbs; involuntary those whose action is continuous, and not necessarily subject to volition, as of the heart, stomach, etc. The controllable muscles are stimulated into activity by the spinal nerves, acting at the instance of

activity by the spinal nerves, acting at the instance of

the brain.

the brain, Myolampus. Throbbing of the muscles, Myopfa. Short sight, the eye being half shut and continually winking.

Myosfa. A disorder of the eye, attended with contraction or too-small perforation of the pupil.

NEWYUS. The Latin name for "Mole" (which see),

contraction or too-small perforation of the pupil.

**Mewus.** The Lattn name for "Mole" [which see], a vascular skin discoloration or tumour, found on a child at birth, and frequently styled "Mother's mark," because of the popular idea that it is due to some maternal impression during the period of gestation. Sometimes it is slight and superficial, but occasionally large and prominent. It is composed of a network of enlarged blood-vessels of the skin or subcutaneous cellular tissue, and may include arteries as well as veins. It has frequently a strawberry-like appear ance, and should it occur upon the face and head is apt to be very unsightly. If it assume the importance of an aneurism it will be difficil to remove.

**Walls of the fingers and toes are really hardened

Mails of the fingers and toes are really lardened and thickened prolongations of the outer layer of the skin, or cuticle, and are composed of flattoned cells compressed into horny matter. They rest upon the nail beds as the scarf skin less on the true skin or derma, and resemble the hair as to composition and in

the matter of growth.

Naphtha. A distillate of coal and wood-tar occasionally employed medicinally as an external applica-tion, for its stimulating effects.

Marcosis. The condition induced by the administration of any anodyne or sleep-promoting

agent.

Narcotics. Certain medicines, variant in their mode of action; which have a common tendency either to produce sleep or allay pain. The latter are classed as

produce sleep or allay pain. The latter are classed as anodynes, the former as soporifics. They should be taken always with caution and never without sufficient cause, lest their use become habitual and harmful. Narea. The nostrils. Nasties. The nostrils. Nasties. The nostrils of the nostrils or nares. Natrum. or Natron. Soda, an alkali, the oxide of sodium, analogous to potash, and obtained from conumon sait or from certain marine plants and sea weeds. The saits, of natrum are very much used medicinally, carbonate of sods being familiar to all. "Glaube.'s Saits" is the sulphate of natrum, while natrum n-risticum or chloride of sodium, is the common sait of the dinner-table, an absolute essential of healthy life. of healthy life.

Mausea. The feeling of sickness or disposition to vomit, without being able to obtain the relief of its accomplishment. This disagreeable sensation is an indication of disturbance of the nervous or digestive system, or both, and frequently a presage of approaching illness, or an accompaniment of disease. Nausea needs treatment in accordance with its cause. Nawloular. A term applied to the bones of the writs and ankle, because of their supposed resemblance to the shape of a ship.

Naskr. That part of the body connecting the trunk.

Neck. That part of the body connecting the trunk with the head. It is the channel of communication between the nervous system generally and its head-quarters the brain; the carotid arteries, supplying the brain with blood run through it, and the important veins conveying the blood back from the head to the heart traverse it. Within the neck also are the windpipe, the csophagus, and the thyroid gland; also the parotid and submaxillary glands, which secrete the salva. All these important organs and vessels are subject to allments which are severally dealt with elsewhere.

elsewhere. Mecrosis. Inflammation of, or injury to bony matter, ending in decay and "death of the bone." This serious condition is usually found in the bones of the thigh and leg; but sometimes occurs in the jaw of workers in match factories, as the result of inhaling phosphorus fumes. The deed or necrosed portion is frequently encompassed by a case of new bone, which frequently encompassed by a case of new bone, which has to be penetrated before the decayed part can be removed. There is swelling of the bone in necrosis, and the appearance of peculiar little apretures called cloace communicating with the diseased bone and discharging purulent matter. The only thing to do with a necrosed bone is to excise it surgically. Narwas are the delicate organs which represent the telegraph wires of the body. They convey the will of the brain to all the muscles, and convey to the brain every sensation from the body. They are, as it were, the telegraph wires conveying messages to and fro between the brain and spinal cord and every pert

as it were, the relegraph wires conveying messages to and fro between the brain and spinal cord and every part of the body, and present the appearance of flattened cords of variant size, uniting at times to form a network or "plexus." The great masses of nerve cells and nerve fibres are divided into the brain or cerebrum, and the ganglia of the special senses, all situate within the skull; the spinal cord or marrow in continuation of the medulla oblongata; the crebrospinal nerves, which are distributed to the muscles, the skin, and all the organs of sense; and the sympathetic nerves which proceed from the ganglia, or acrve centres, to the blood vessels and viscers, and are called the nerves of organic life. The sensitive nerves are called afterent, because they carry impressions to the nerve centres and thence to the brain; while the motor nerves are known as efferent on account of their office of conveying impressions from the brain, exciting or suspending muscular action, or influencing secretion and nutrition.

or influencing secretion and nutrition Merues, Names of the. Cerebral nerves are Regress, Names of the. Corebral nerves are those arising from the brain: nine pairs in all. The olfactory nerves expand upon the membrane of the nose; the optic nerves terminate in the retina; the motores oculorum are distributed to the muscles of the eye; the patheticl, or trochlesses, to the superior oblique eye muscle; the trifacial, or trigemin, from the grand sensitive nerve of the head and face; the abducentes are distributed to the external rectus muscle of the eye; the portio mollis and portio durate the auditory and facial (or nerve of motion and expression) nerves respectively; the grand respiratory nerves comprise the glosso-plaryngeal and vagus, as well as the spinal accessory; and the last pair are the ilingual nerves of the tongue called also the gustatory nerves. Thirty-one pairs of spinal nerves radiate from the spinal cord and supply the body at large. From all these, other nerves, too numerous to particularies, extend.

extend,

extend,

Nervous Ailments. This term, or its corollary
"nervous affections," comprehends a host of conplaints of a nondescript character, though there are
many important diseases in which nerve disorder plays
a prominent part, such as neuralgia, paralysis, insanity,
hydrophobia, and lockjaw, to all of which attention is

paid in their proper order in this section of the Cyclopaedia.

Nerwous Disease, properly so-called, is always associated with some local mischief which impoverishes associated with some local misciner which impoverisings the nervous system by draining away its force, either by constant irritation or pain. Females, whose special organs are supplied with a sensitive and complicated nervous apparatus, are more liable to nervous disease than males; hence hysteria is preponderant in the softer sex. The proper method of dealing with nervous disorder of any kind is to search for, and, if

possible, remove the cause.
"Nettle Rash" is a very irritating affection of "Nettle Rash" is a very irritating affection of the skin, charactersed by the appearance of a number of solid little "bumps" or wheals, pale in the centre and reddish towards the margin. They tingle painfully and bear considerable resemblance to the eruption consequent upon contact with stinging nettles. The rash is generally a symptom of indigestion, and may be caused by partaking freely of shellfish or nuts. In that case the administration of an emetic, followed by a purgative, will probably soon set things mult, though special care must be exercised set things right, though special care must be exercised as to dietary for some time. Goulard water or some as to detay to some time. Goulard water or some other cooling lotion may be applied to the troublesome eruption, after taking a warm bath with sold dissolved in it, with immediate advantage. Dilute carbolic acid combined with eau de cologne will also be found of soothing influence if applied to the affected part.

Neuralgia, wherever occurring, is an exceedingly painful affection, recurring paroxysmally. It is of most frequent occurrence in the nerves of the face and receives the name of "tic" or tic-doloreux; and the sciatic nerve of the leg is often also the seat of neuragra. It is, when in connection with the nerves of the face, very frequently caused by a decayed tooth or some other local irritation. If there be a faulty tooth, that must be removed before the neuralgia can be got rid of, and it should never be inferred that the tooth is sound because decay is not discernible. neuralgia. It is, when in connection with the nerves

Naurina. The substance of the nerves; neurotic signifes relating to the nerves; neurotiony, dissection of a nerve; neuroma, a tumour found on a nerve trunk or

ganghon; neuron, a nerve cell.

Neuritis. Inflammation of the nerves; neurolimits is the technical name for inflammation of the

limits is the technical name for inflammation of the sheaf of the nerves, or neurliennia.

Michaelton. Winking; the condition of involuntary winking is technically termed "nystagmus."

Nightmare. Nightmare, sometimes called "Incubus," is a very distressing accompaniment of disturbed sleep, consequent upon constipation or indigestion. Generally the disagreeable experience can be directly traced to digestive derangement in the shape of a heavy supper of unwholesome food, and in bad cases the horrible dreams it brings may be aggravated into somnambulism. Let the bowels be kept in order and the dietary be regulated as to conkept in order and the dietary be regulated as to con-stituents and meal-times, and there will be little

nightmare,

Nipple. The protuberance of the breast, whence is drawn the maternal milk. It is a conical eminence, rosy-tinted and in virgins surrounded by an arcola or circle of a pink celour, which becomes brownish in those who have suckled.

Nitrates used in medicine include saltpetre, the nitrate of potash, nitrate of silver or lunar caustic, and the subnitrate of bismuth.

Nitre. A very valuable medicine, in the form of the purified and sweetened spirit, as a cooler of the blood. In feverish cold it is safe and beneficial, and it makes an alleviative lotion for inflamed rheumatic joints.

makes an alleviative lotion for unfamed rheumatic joints.

Mitrio Aoid. An acid composed of five guivalents of oxygen to one of nitrogen, forming nitrates, some of which are employed medicinally, while the acid itself is of very considerable tonic value. Employed in the arts as aquafortis it is one of the most powerful acids known and will dissolve nearly all metals.

Mitro-Glycerine. An oily liquid, heavier than and almost insoluble in water, obtained by treating glycerine with nitric and sulphurle acids, the nitrate of the oxide of glycol finds a limited employment in usedicine.

Nitro-Hydrochloric Acid. This is utilised as a tonic internally in liver complaints, besides being frequently sprinkled over hot fomentations applied to the region of the liver externally when there is sluggish

action of that organ.

Node. A hard circumscribed tumour, proceeding action of that organ.

Node. A hard circumscribed tumour, proceeding from inflammatory swelling of the periosteum of the bone, frequently the result of rheumatism. The bones of the skull and the shin are the most common seats of nodes, but any bone may be affected. Absolute rest should be enjoined when the disease is at its acute and should be enjoined when the disease is at its acute and painful stage, and fomentations or poultices may be employed remedially, or leeches applied. Jodide of potassium may be administered internally, or mercury tried, but medical attention will be necessary.

Nodoastiy. Any concretion, but especially calcareous, as present in the fingers in gout.

Noisea in the Ear are very frequently due to diseases of the organ, or may arise from aggregations of wax in the passages, or from the use of certain medicines, such as salicine and quinine. (See Ear.)

Noil me tanders. A success of lunus or heroes.

Noll me tangers. A species of lupus or herpes, attacking the carriage and skin of the nose.

Noma. An ulcer attacking the cheek, or other parts in young females, sometimes called "water canker."

Normal. According to rule, the natural con-

Nose. The organ of smell, so placed above the mouth that the odour of whatever is placed therein must be mmediately perceived, is lined by a vascular nucous membrane, largely provided with cilia or unmute harrs, wint bifur the sir on its passage to the lungs. It is frequently the seat of catarrh, or cold in the head, when the mucous membrane secretes mucous abnormally, causing difficulty in breathing and other

inconvenience.

The external openings or apertures of the nose, formed by two thin cartilagenous plates curved in such a manner as to form the inner and outer walls of each ornice. The cartilages are expansive, and offer a wide extent of covering membrane upon which the nerves of smell are distributed to the

upon which the nerves of smell are distributed to the action of air bearing odoriferous particles.

Nubecule. A disease of the eye producing a sensation of misty surroundings.

Nucleus. A point around which "matter" or some substance gathers in disease. The particle in the inside of a hving cell.

Numbress may proceed from temporary suspen-sion of nervous action, occasioned by long-continued pressure in one direction, from standing in water or on a damp spot, or from exposure to cold or draught. Warmth, friction, or the hot bath are pulliative or corrective, and friction with the hand often suffices to restore circulation; but when more energetic measures to restore circulation; but when more energetic measures are called for, turpentine or oil, with or without mustard, will usually answer the purpose. Numbuess accompanied by loss of the power of motion points to

Paralysis, Vomica. The nut of the East Indian Koochla-tree, from which is obtained the poisonous strychnia and the alkaloid brucine, both useful medicinally. Nux vomica, in tincture and extract, is employed advantageously in atonic conditions of the stomach, intestines, and general system; and strychnine may sometimes be injected subcutaneously with success in minute proportions when there is heart failure. In mux vomica poisoning, chloroform inhalation will often afford relief, and animal charcoal acts as an antidote. Nyotalopia. Day bindness, the faculty of seeing best at dusk or dark, attended by defect of vision

ring daylight. Obstruction. during daylight.

Obstruction. A term used by doctors to describe
a condition in which there is some impediment to the
free passage of an excretion or secretion. Thus gallstones, preventing the passage of the bile, in its usual
course, are obstructions, as are calcult lodged in the
ureter, bladder, or urethra, and stopping the urinary
flow. Swallowed plum or cherry stones may obstruct
the bowels, as may hardened faces, and infirmation
sometimes also occasions obstruction, as in entertits.
Twisting of the gut or invariantion, may set up the Twisting of the gut, or invagination, may set up the condition, or the pressure of tumours, or we have embolicin, or blood clot in the brain or important

Another the state of the skull, containing an oval aperture through which passes the spinal cord, the spinal cord, the spinal cord, the spinal cord, the spinal cord, the spinal cord, the spinal accessory nerve, and the vertebral arterles.

Gleama. The dropsical swelling or tumour, due to the effusion of the watery constituent of the blood into the subcutaneous tissues. The condition may be due to disease of the heart, liver, or kidneys, or it may due to disease of the heart, liver, or kidneys, or it may arise from pressure in the pelvis, preventing the due return of the venous blood. Œdema is generally a

return of the venous blood. (Edema is generally a grave symptom.

Cleanatous. Dropsical.

Cleanatous. The gullet, or canal leading from the pharynx to the upper opening of the stomach. Cleophagitis signifies inflammation of this important passage. Food is conveyed through the "meat-pipe" by muscular and wave-like movements, and does not drop down mechanically after swallowing. The essophagus is about nine inches long in the average adult. aduft.

Oil, Camphorated. This is a soothing applica-tion in chest colds and glandular swellings of the neck. It should be warmed by placing the bottle in hot water, and then rubbed gently into the part by the

hand.

Olls are very much used in medicine. Some are soluble, as turpentine, oil of jumper, lavender, mint, or lemon; others fixed, like linseed, croton, almond, olive, castor, cajeput, and cond-liver oils. They are all, more or less, of an aperient character, and many of them may be employed externally as accessories to them may be employed externally as accessories to stimulant preparations, and for emolinent purposes. They are referred to separately in their alphabetical order, and in connection with the allments for the relief of which they are called into request. OlfactoryNerves. These nerves, issuing from the brain, supply the nucous membrane of the nose, and confer the sense of smell. They are formed of grey

Olibanum. A gum resin, formerly much used for

Oilbanum. A guin team, some medicinal purposes.

Omencum. A membrane of the stomach, covering the intestines. (See Mesenfery.)

Omphalocele. Rupture of the navel.

Onychia. A panful disease which sometimes affects the root or side of the nail, resulting in ulcerates the formation of an abscess. Powdered ation or the formation of an alexcess. Powdered nitrate of lead dusted over the affected surface will sometimes afford immediate relief; but if the allment be persistent, poulfilleng and hot fomentation should be resorted to, with lancing if necessary for the liberation of pus. It may be necessary to remove the nail, while can be accomplished painlessly under local anaesthesia

Ophthalmia. Inflammation of the outer covering of the eye, occurring for the must part annonest scrofulous children. Newly born hifants are particu-larly liable to be attacked by this painful aliment, which also frequently assumes an epidenic character amongst school children. Ophthalima uvually comamongst school children. Ophthalma usually com-nences with pam or oppression across the forehead, a pricking sensation, with leat and dryness, in the eye-giving the feeling of grit or sand between the ball and lid. There is great and increasing intolerance of light, and the inside of the eyelid, become swoollen and blood-charged, while the white of the eye appears bloodshot, with here and there dark purplespots where the blood in the capillaries has become effused. Exudation after a time covers the eye with a film of muco-purplent stringy looking matter, obstructing the Exudation after a funic covers the eye with a film of nucco-purient stringy tooking matter, obstructing the vision, and occasioning almost unbearable irritation and pain. Relief may be obtained by the introduction of a five to ten per cent; solution of cocaine into the eye. Later a lotion may be applied—a few drops at a time—every two or three hours composed of five grains sulphate of izine, one drachin occain wine, and rose water to make one ounce. Salicine may be taken internally simultaneously in ten grain doses every two hours or two grains of quinne every four hours. But ophthalula is a disease which requires skilful handling, so that competent medical advice should always be obtained.

Opium. The thickened juice of the unripe capsules of the common poppy, which, when dried, becomes of a dark brown colour. Opium, in its various medicinal forms, has probably relieved more human suffering than any other remedial agent.

Opium Piaster. This is prepared from finely powdered opium and resin, the proportion of opium heing not ware than one in ten.

powdered oplum and resin, the proportion of opium being not more than one in ten.

Opodeldoe is the old soap liniment, now largely superseded by the soap and opium liniment, of the Pharmacopenia. It did good service in the treatment of bruises and sprains in its day, and was made up of hard soap two and a half ounces, camphor one and a quarter ounces, rectified spirit eighteen ounces, oil of rosemary three fluid drachins, and distilled water two ounces, all well shaken together and thoroughly amalgamated.

Optical Illusions are frequently occasioned by a disordered condition of the nervous system. They are indicative of brain disturbance. Also optical illusions occur in delirium, caused by alcoholic excesses,

rever, or injury. They are the outward sign of inward mischief, which needs very serious attention.

Orthopmas. An affection of the lungs, in which respiration is greatly impeded unless the patient remains in an unproble process.

respiration is greatly impeded these the pattern remains in an upright position.

Ossification. When used to indicate a diseased state the unnatural formation of bone is what is usually implied by the use of this term. The abnormal coulding occurs at times in the soft textures of the arteries, and chiefy in the great aorta where it rises from the heart. Ossification in any important artery generally leads to aneurism, rupture, and sudden death. Its exact cause and progression are obscure, but doubtless it arises from morbid depreciation. Ordinary ossifica-

tion means bone-formation.

Oscalgia. Fan in the bones; ostealgitis, inflammation of the bony structure.

Ocalgia. Far-ticle; totrorhagia, a discharge from the ear. In this distressing condition the filling of the ear with glycerine or familic acid, the sufferer being laid on the side, will often afford rehef.

Ottits. Inflammation of the inner ear.
Ovariotomy. The operation for removal of tumours of cysts formed in connection with the ovaries of women, now carried out with almost unvarying success by experienced surgeons, whereas only a few years ago it was rarely attempted, because of the fatalities which followed before an exthetic and anti-

sephre practice had made such wonderful strades.

**Dx2ic Acid is a vegetable acid, found in rhubarlo sorrel, and other plants, poisonous, but of limited use in medicine. Chalk is the best antidote, or magnesia may be tried, but no time must be lost in 'derir administration'.

Oxide of Bismuth, in six to ten grain doses, taken three times a day, about half an hour before meals, forms a corrective of heartburn and acid dys-

pepsia.

Oxygen. The vital gas of the air, essential to the existence of animal and vegetable life. It is by the inhalation of oxygen that the blood is purified on the

inhalation of oxygen that the blood is purified on the lungs. It can be chemically prepared, and has of late years been largely employed in the treatment of pneumona and other diseases which interfere with the necessary natural oxygenation of the blood.

Oxymel, a mixture of vinegar and honey, was formerly a good deal employed in the making of cough medicines, but spirit of squills has largely supplanted it. The oxymel of squils is prepared by analagmaning five ounces of squil vinegar with half a pound of honey.

Oxymola. Extreme short: spirtedness, pretering

Oxyopia. Extreme short sightedness, preternatural sensibility of the retina.
Oxyphonia. An abnornal shrillness in the tone of

Ozena. An ailment of the nose, discharging foetld matter, and sometimes occasioning carles of the

Ozone. A dense elemental substance of penetratwzone. A derive clemental substance of penetrating odour, supposed to be generated in the atmosphere by electrical agency, and forming the percented oxygen. It is used medically as a deodorising and antiseptic application where suppuration enists in deep seated cavities. Naturally ozone is found in the ail at the seaside much more abundantly than in the neighbourhood of thickly populated inland towns.

Pachweholia. A disease due to thickening of

Pachycholia. A disease due to thickening of the bile.

Painter's Golic, so called, is an affection of a very serious character, attributable to the absorption into the system of lead from the paint employed in his daily work. The symptoms are cramping pain in the stomach and abdomen, accompanied by continuous constipation, with a blue line round the gums. At a more advanced stage "Painter's Paralysis" will drop wrist" may occur; pointing to the necessity of a drastic course of treatment. (See "Golic.")

Painte. The palate, or roof of the mouth, is formed in two portions, together making the partition separating the mouth cavity from that of the nose. The hard palate, in front, consists of a bony place covered by a dense tissue called the periosteum; and the soft palate, or volum, behind, termnates in a central pendulous structure, the uvuls. The soft palate is a moveable fold of mucous membrane, inclusive of nuscular fibres. It assists the articulation of sound maternally, and has its part in preventing the passage of food into the posterior nose opening above.

Palpitation of the heart may be occasioned by functional disturbance of the stomach, as in fatulence, or it may arise from over-exertion or excitement, or be directly due to organic disease of a more or less serious serious description and the to organic disease of a more or less serious serious and the total content of the sound of any organic serious serious serious description or excitement, or be directly due to organic disease of a more or less serious serious and the sound of the serious and the sound of the sound of the sound of the serious serious serious description and the sound of the serious and the serious description and the serious description are constituted to the serious description and the serious description and the serious description are constituted to the serious description and the serious description and the serious description and the serious description and the serious description and the serious description and the serious de

or it may arise from over-exertion or excitement, or be directly due to organic disease of a more or less serious character. If a flatulent condition be answerable for the ailment a brisk aperient should be administered, while mustard or turpentine plasters applied over the stomachic region will often afford immediate relief. A suitable internal remedy is furnished by a mixture of bicarbonate of soda one scruple, sal volatile half a drachm, peppermint water one ounce, and tincture of capsicum five drops; to be taken at intervals of three

Palsy. A disease characterised by absence of power to regulate the muscles of any part, or the deprivation of feeling, practically synonymous with

ralysis, which see

Paralysis, which see,
Pastereas. The Sweetbread, a narrow gland
lying across the spine in the upper part of the
abdominal cavity, directly behind the stomach. It
secretes the pancreatic juice, a fluid resembling the
saliva; and its duct enters the bowel at the opening
which carries the bile from the liver. The two which carries the bile from the liver. The two fluids thus introduced combine to convert the chyme into chyle. The pancreas weighs three to four ounces, and in shape somewhat resembles the tongue of the dog. It reaches a length of from six or eight inches in an adult, and is about an inch and a half wide, and from half an inch to an inch thick. The pancreas of man is analogous to the sweetbread in animals, and the effect of the action of its emulsionising juice is to complete the change of the partially digested starchy food constituents into sugar, a transformation which the stomach has no power to accomplish. Its juice also digests introgeneous foods and fats. It is the only digestive fluid acting on all kinds of foud.

Pannus. A disease of the eye, in which the comea is obscured by a fleshy and webby covering.

Papilla. Is the name applied to small superficial eminences of the skin and mucous membrane, cocurring on the tongue and elsewhere. These mlnute elevations are exceedingly numerous, and as many as four hundred occur on a surface measuring only a twelfth of an inch square in the papillary layer of the corium. The nipple of the breast is also styled the papilla.

Pannules are plomples evunted upon the skin by fluids thus introduced combine to convert the chyme

hyer of the corium. The nipple of the breast is also tyted the papilla.

Papules, are pimples erupted upon the skin by disorder or disease; small-pox, chicken-pox, acne, impetigo, herpes, boils, and carbun is, all commence as papule.

Paralysis. A loss of sensation, motive power, and sometimes of intellect. The nervous system has been disarranged locally and generally, by shock, disease, or nipury. Occasionally the effect of paralysis may be obliteration of sensation without interference of motive power, while loss of muscular control may arise whilst sensation continues intact or only slightly affected. The body may be paralysed vertically, from head to foot, on one side only;

that is to say the affected half of the body may be deprived of muscular power or feeling, one or both. The sale of the brain which is affected is the opposite to that which is paralysed in the body. When a paralysic seizure is experienced on the right side, there is very often a consequent defect in articulation, or the power of speech, in which the sufferer makes a rambling use of words inappropriate to the expression of his meaning due to the fact that the active speech contre is on the left side of that the active speech contre is on the left side of the brain. Tally again may affect the body transeversely, taking away the power of the trunk, and limbs below a certain point. More local paralysis is that which seizes but one hand, one foot, or one side of the face; or the tongue and palate may be deprived of feeling or motion without depreciation of the muscular or sensitive power elsewhere. The bladder or the rectum alone may be depreciation of the muscular or sensitive power else-where. The bladder or the rectum alone may be paralysed in other cases, occasioning involuntary evacuation, or the wrist muscles only, as in a phase of lead poisoning or "painter's colic." Apoplexy is the most frequent cause of paralysis, but it may be due to many other disorders such as compression of the brain substance or spinal marrow, tumours, interferent with the nervous system or impaired nervous

ferent with the nervous system or impaired nervous energy generally, continuous exertion, violent emotion, exposure, rheumatism, poisoning and accident. Algorathysis and better sesult of decay and debility.

Paralysis. Infantile. Paralysis in children, usually partial, often originates in some region of the body distinct and distant from the part affected; and may, in fact, be due to sympathetic nervous irritation of an extensive character. Such irritation is frequently traceable to bowel trouble, either the effect of indigestion, constipation, or the presence of intestinal worms. WORMS.

Paraphora. A technical term for delirium.
Paraphrenitis. An inflammatory condition of the daphragm or midrift.

Paraplegia is complete paralysis of the body, and Parkpiegas is Complete parayses of the body, and when seen in the lower portion, almost invariably arising from injury to or disease of the spinal cord or its membrane. (See Paralysis.)

Parasites. Intestinal worms are a frequent cause of troublesome tritanon in children, and should be

of troublesome irritation in children, and should be treated with suitable vermifuges as elsewhere advised. Fungus or "mould" of a vegetable nature may be conveyed to the healthy from the diseased by contact, such as the touching or wearing of clothing, using towels, brushes, or razors, or sitting on seast previously occupied by those affected. Hence scaldhead, "ringworm" harber's rash, etc., are often spread; hence also hee and other objectionable parasites find

new quarters.

Parastrema. Convulsive distortion of the mouth,
Parenchyma. The spongy substance contained
between the blood-vessels of the viscera.

Parenchyma. The sponcy substance contained between the blood-vessels of the viscera.

Parletes. The wails or sides of any anatomical cavity. The parletal bones of the skull are stuated in its sides, and form part of the cranal walls.

Parlethmitis. Inflammation of the tonsils.

Parlethmitis. Inflammation of the tonsils.

Parlethmitis. Inflammation of the tonsils.

Parotid Gland. The large salivary gland situate in front of the ear. This, with its exerctory duct, is frequently the soat of disease, particularly "the mumps" (which see). Here, too, "tubercular disease" is often made manifest by painful abscesses, leaving ugly scars behind them.

Partial Baldness. (See Alopseds.)

Patella, the knee-pan, or cap of the knee. It protects the front of the yout, and increases the power of the muscles which extend the legs.

Padioulus. A genus of parasitic insects, including the common louse. Ticks or lice are usually the outcome of negligence, and frequently indicate debility or the exhibition of a congenital ground for the existence of the pests of the dirty and unhealthy. They inhabit the hair and skin, and unay occasionally transfer themselves to cleanly children and others, when they are given short sirift. Vinegar and water will destroy the own of any of these parasites, and mercurial ointment

ova of any of these parasites, and mercurial ohiment poison the fully developed pers.

Pelwis, or haunch, is the irregular bony framework which supports the spine, open above and below, and forming the lower boundary of the abdominal cavity.

Its upper diameters are greater in the female anatomy than that of the male.

Pepalia. "Peptic" means promoting digestion, and pepaln is the active principle of the gastric juice, the digestive fluid of the stomach. The pepsin employed in various medicines is procured by the mucous membrane of the stomach of the pig or some other animal with a blunt knife, rapidly drying under heat the pulpy substance obtained, powdering it, and placing it in a well-stoppered bottle. Pepsin is serviceable in all aliments occasioned by want of tone and deficiency in secretion of the gastric juice.

Parleardium. The membranous sac enclosing the heart and its appendages. Its inner surface, resembling in structure the synovial membrane of the jounts, secretes a similar lubricating fluid.

Parlenondrium. The thin inner lining membrane of the bones of the skull, very firm and tough in texture, and closely attached, analogous to the periosteum in other parts of the body.

Parlnaum. The region between the anus and the generative organs.

Perioscum. The adherent membrane enveloping the bones of the body, except at the points where cartilage exists in the joints. In the perioranum (as in the perioranum of the skull) ramify the blood-vessels which afford nourishment to the bones; and upon its laceration or serious injury otherwise there is a liability to necrosis or "death of the bone." An infammatory condition of this inembrane is styled periositiis.

matory condition of this membrane is styled periostitis. The periosteum is subject to rheumatic ailments. It is on the periosteum that bone-formation and bone repair

on the periosteum that bone-formation and bone repaired devolve, **Periskaltic.** Worm-like or spiral; applied to the wavy motion of the intestines, caused by the contraction of their fibres for the assistance of digestion and

Peritoneum. The thin, smooth serous membrane which nvests the entire internal surface of the abdomen and cevers the viscera. It is of great strength, and whilst permitting perfect freedom to the organs it encloses, is a powerful auxiliary to their retention us the natural position. When dropsical effusion ensues from diseases of the heart, kidneys, or liver, the fluid exudes from this extensive membrane, which is also, in all its parts, liable to inflammation. The perstoneum has to be cut open when surgical interference with the organs within is requisite, an operation now carried on with impounity in anaesthetic and antiseptic practice. Perstonitis, inflammation of the perstoneum, is always a persions condition. and covers the viscera. It is of great strength, and perilous condition.

Perityphlitis is a local inflammation of the peri-toneum, usually originating in disease of the vermiform

appendix.

Permanganate. A salt of permanganic acid, the highest oxidised condition of the metal manganese. In solution it is mildly antiseptic and disinfectant, and permanganate of potash is largely used for both purposes, besides being prescribed in pills for the acceleration of tardy menstruation.

Perspiration. The natural excretion of the skin; the passing out of which through the pores produces radiation and maintains the body at its normal standard.

Phasynx. The musculo-membranous sac, measur-ing about four mches in length, lying behind the mouth and soft palate, and continuous below with the guillet. and soft painte, and continuous below with the guilet. It is loosely attached to the spinal col "mn, upon which it can be moved. Communicating "it the pharynx are the openings for the nostrils, the eustachian tubes from the ears and the larynx; and thus it is that when there is inflammation or catarrh of this part, there may be consequent deafness, loss of voice, or nasal obstructio

obstruction.

Phishitis. Inflammation of the veins, recognised by a painful corded feeling and swelling. The disorder may be the result of blood-poisoning, but is most frequently present after parturition, when it gives rise to "white leg," so called because of the tense and glossy appearance of the puffed-up limb.

Philabotomy. Venesection, or the cutting of the vein for blood-leiting, a practice not now nearly so much resorted to as a remedial measure as was formerly that case.

the case.

Phiesm. The popular appellation of mucus, as secreted in the appectoration from the air passages. The term used to be employed to express studity, because of the mistaken idea that persons specially subject to phlegm were thereby rendered dull.

Phiesmasis Dolens. Fuerperal tunid leg, an affection incident to childbirth, alluded to under "Phiebitis," and commonly called "white leg." Due to the inflammatory condition of the veins and retardation of the return flow of the blood therein, it often proves obstinate, and medical aid should be sought for its alleviation.

Phiesmon. A tumour in the skin, red, tense.

Phlegmon. A tumour in the skin, red, tense, supporting, and discharging pus at maturity. It is the outcome of an acute form of inflammation, such as in erysipelas, when slough has formed by reason of the virulence of the poison.

Phosphorus. An elementary body and a constituent of animals, as of the phosphate of lime in bone.

Present also in the brain and in the fibres of flesh. It is a deadly and irritant poison, but when employed medicinally in small doses and introduced in a proper

medicinally in small doses and introduced in a proper medium, phosphorus is beneficial in nany forms of disease, particularly those of a neuralgic nature.

Phrentids. Infiammation of the brain may arise from many causes, internal and symptomatic, or external and accidentel. It is a disease of the greatest possible gravity, calling for the most careful medical treatment. (See Brain.)

Phthisis. Consumption, a wasting affection of the pulmonary organs or lungs, marked by cough, expectoration, sweats, heetic fever, and other distressing symptoms.

ing symptoms. There are many varieties of this ing symptons. There are many varieties of this dreadful sourge; pulmonary consumption proper, laryngeal phthisis, abdominal phthisis, or consumption of the bowels, tracheal phthisis, or consumption and florid-hectic phthisis, or decline. (See Consumption and florid-hectic phthisis, or decline. (See Consumption.)

Phylsacium. A vivid red pustule of large size, followed by a dark coloured scab.

followed by a dark coloured scab, Files. A painful disease arising from dilatation of the vens of the lower rectum on the edge of the anus, Properly called hæmorrhoids, piles are in the first instance a varicose condition of the hæmorrhoidal veins. This excites infammatory action and occasions strangulation and severe pain. The little tumours formed on and about the dilated veins burst and disformed on and about the dilated veins burst and discharge blood with the evacuations at times; and the mucous membrane extruded from the anus becomes ransformed into skin, when we get the condition called external piles. Any form or extent of this adjust it very painful and troublesome. Constipation and slingers here action are predisposing causes, and maternity contributes to their formation in other cases because of pressure which it brings to bear on the vessels of the pelvis. The great pile preventative is full and free daily evacuation, and this must be systematically restored before shere can be any lasting systematically restored before shere can be any lasting cure of havmorrhoidal trouble. Hazeline is a capital alleviating local application either as an ointment or a suppository and to this may be added in very plainful cases some soothing agent suri as conum ointment, or gall and opium ointment. When the piles are far and persistently obtruded their removal by operative treatment which is readily accomplished by surgeons nowadays is advisable

nowadays is advisable.

Pimples are small rounded and more or less inflamed elevations of the skm, frequently suppurating
at the head. The term is popularly applied to Acne
(which see), and also describes the first stage of the

(which see), and also describes the first stage of the eruption in small-pox.

"Pins and Needles" or "Leg Asleep," the curious tingling sensation which follows continuous pressure upon the nerve trunk of the arm or leg arises from the gradual recovery of nerve action after its temporary blumting, the successive "prickings" being the successive returns of the numerous nerve fibres to

normal action.

Pituitary means that which secretes phlegm or mucus. Thus we have the pituitary membrane of the nose, and the pituitary gland of the brain. Pituitous signifies resembling phlegm.

Plathora. Repletion, over-fulness of the vessels of the body; hence we speak of a person of plethoric

habit when his blood-vessels are turgid and over-loaded. The condition generally arises from indolence and excess of eating and drinking in combination with abstention from healthy exercise; and it tends to apoplexy and hemorrhage. Thus it is the plethoric person who is most prone to bleeding from the nose, in the stomach, and from the lungs, a disagreeable ex-perience which may possibly be a blessing in disguise, relieving the pressure on the brain which might have much nore serious consequences. much more serious consequences

Pleura. The serous membrane investing the lung, and covering the inner surface of the walls of the chest. It is covered with a lubricating fluid which in health enables the organs to move easily and without friction upon each other. When inflamed from any disturbing cause, however, the surface affected becomes roughened, and the condition of pleurisy or pleuritis is

roughened, and the condition of pleurisy or pleuritis is et up.

Plaurisy. Inflammation having roughened the surface of the lung or chest pleura, intense pain is occasioned. Pleurisy is generally, but not always, an accompaniment of disease within the lung substance proper. It commences with a short, dry cough, causing a sharp stabbling pain in the affected pair. Shortly thereafter the character of the cough undergoes change, and each paroxysm is succeeded by the expectoration of rusty-coloured mucus, while there is invariably fever and high temperature. A blister may afford relief or leeches may be applied over the seat of pain, and phenacetin administered to allay the febrile disturbance, the patient's strength being maintained as far as possible by a pleuritial milk clietary. When the pain is most intense, infinitesimal doses of opium and calomel may be given.

pain is most intense, infinitesimal doses of opium and calomel may be given.

Pleurodynia or False Pleurisy. An inflammatory condition of the chest wall, often called "muscular rheumatism," occasioning a very acute pain, and frequently confounded with pleurisy proper, from which, however, it is distinguished by the absence of fever. It is generally the result of a weakened physical condition coincident with nervous prostration, and may be nothing more serious than an aggrafated neuralgic affection of the intercostal nerves. Subcutaneous injection of morphia, and the administration of phenacetin combined with caffeine are likely to give prompt relief, and a liminent of menthol, cilitorform, and menthol rubbed over the affected part, will prove heigefacial. For the prevention of a recurrence of form, and mention rubbed over the anected part, will prove heineficial. For the prevention of a recurrence of the attack a pill compounded of quinne, caffeine, and hop extract has been recommended.

Pleuro-Prieumonia. Simultaneous inflammation

of the pleura and lungs.

Pleurorrhona. Collection of fluid in the sacs of

Pleuronthopnosa. Pain in the side, rendering breathing

Pleurospasm. The spasm in the side so common in the case of hysterical females.

Plexus. A net-work of nerves, absorbents, or other

Plugging. Stuffing a wound or organ to prevent

Pneumatocele. Hernia distended with air, or formed by the portusion of the lung through the thoracic well.

Pneumatosis. A disease occasioned by the collection of air in the cellular texture under the skin. Pneumolithiasis. Disease characterised by cretions in the lungs.

Preumonia, or inflammation of the Lungs. A very common and distressing disease, generally supervenes upon a had chill, caught by a person at the time in a more or less deslitated condition generally. It is reckoned to be due to the distressing the condition generally. Inflammation of the existence of a specific germ, which may have long lain dormant in the system until the health of the individual s sufficiently impaired to permit of the development was sumciency inparted to permit of the development of its virulence, or it may have made its invasion at an opportune time for the immediate commencement of its disease-propagating activity. The characteristic symptoms of pneumonia are high fever, lividity of countenance, a hacking cough, and rapid breathing. Shortly there is viseld and rusty-coloured espectoration. The chest over the seat of pain is invariably dull on percussion, and the stethoscope will reveal fine crepitation, which, as time goes on, grows more crackling in sound and later assumes a bubbling character. In pneumonia the great point of treatment is to keep the temperature down, relieving the local is to keep the temperature down, relieving the local path by bitsering and maintaining the constitutional strength by nutritious dietary, careful attention being given to the prevention of any digestive disorder. The pneumonia patient should be confined to a warm but well-ventilated room; and when his pain is particularly troublesome it may be well to administer soothing medicine in which opium and calomel are compounded. There is a bilious form of pneumonia, and also a divease of less serious character arising from chest infammation known as spurious pneumonia. A person who has once suffered from pneumonia should be particularly careful for the future to avoid chills and exposure. The disease is sometimes accomanced by and sometimes consequent upon bronchitis. chills and exposure. The disease is sometimes accompanied by and sometimes consequent upon bronchitis.

chills and exposure. The disease is sometimes accompanied by and sometimes consequent upon bronchitis.

Podophyllin. A drug extracted from the resin of the dried underground stems of the American Mayspple or mandrake. It is a valuable purgative and acts powerfully upon the liver. The tincture should be administered in small doses, and in combination with colocynth or some other purgative and an anodyne like henbane, powdered capsicum, or some other carminative being added to obviate griping. Thus podophyllin provides a safe substitute for mercury in combating bilious disorders.

Polipus. A tumour of morbid growth, attached to the interior of a nucous canal by a pedicle, and so called from the supposition that they have many feet. They occur in the larynx, fauc.s, nose, ear, rectum, and uterus, and vary in size from the smallest possible dimensions to that of a baby's head, or even larger. They may be gelatinous, fibrots, vesicular, or malignant, and partake very much of the nature of the surface from which the pedicle takes its origin. Usually they are removable by being laid hold of by orcept and twisted to their disconnection, and sometimes they are expelled without surgical interference by muscular action into the pediconcal cavity, and require extraction by Potential of the skin should be kept constantly clear and clearly and require extraction by clear of the skin should be kept constantly clear.

Pores of the skin should be kept constantly clear by cleanliness, and if they become clogged at all the penalty of neglect will have to be paid in illness. An

periany of negrees at long way to the maintenance of a healthy body.

Porraigo. A skin disease, developing crusts upon the scalp in which sero-purilent matter accumulates popularly known, in various forms, as mgworm of the scalp, scald-head, honey-comb, etc. Cleansing of the affected surface with carbolic soap, and the application, after drying, of an ontinent composed of red oxide of mercury in ordinary pomade, with the addition of quinine, is the treatment of this disagreeable aliment, to be repeated, night and morning, until it is eradicated.

Potash is a compound of potassium with oxygen, and therefore an oxide. It is largely used in medicine. Caustic potash in solution is employed as an antacid in various urinary diseases, besides being utilised for the destruction of morbid growths. Other potash salts serviceable in pharmacy are the carbonate and blear-bonate, acetate, nutrate (saltpetre), bi-tartrate, chlorate, citrate and permanganate, all of which are referred to elsewhere.

Potassium enters into a great many useful medical combinations quite apart from those in which its oxides find employment. Thus the lodide and bronide are important in the treatment of constitutional disease,

important in the treatment of constitutional disease, the former particularly in rheumatism, and the latter in brain and nervous affections.

Prolapsus. A failing down, or failing out, of some part of the body, the term being usually employed to indicate failing of the womb, and bowel prolapsus, not uncommon in weakly children, particularly such as suffer from intestinal worm irritation. A gentle dabbing of the obtruding part with cold water impregnated with lead extract, and the application of a suppository augmented by sponging of the hips and loins in salted water daily for a while, is good treatment. Tonic medicine should be administered simultaneously.

Prophylactic. A preventive medicine.
Profesuation of the Nawel. When this occurs in an infant it is a good plan to cut a piece of cork or lvory into the shape of the half of a balla and to press the convex side upon the protuded navel, retaining it in position with adhesive plaster, affd gently securing with a body roller. The plaster should be changed every morning, and the skin carefully cleansed to prevent soreness. It may be necessary to continue the treatment for many weeks, especially in female children.

Prussic Acid. This is the old and familiar name of hydrocyanic acid, much employed, in minute quantity and chiefly in combination with other remedial agents, in medical practice; it is a very powerful sclative, and a most deadly polson. It exists in the kernels of all stone fruits, in the leaf of the laurel, and other vegetable substances, but is chiefly prepared chemically for pharmaceutical purposes from the cyanide of

Psaudosthesia. Imaginary sense of touch, as in the remains of a limb from which a portion has been amputated, affording a feeling as if the removed part still remained.

amputated, aftording a feeling as if the removed part still remained.

Ptilosis. Falling off of the eyelashes.

Ptarperal Fever, a most distressing and perilous disease, is invariably due to neglect at a critical period on the part of the patient or her attendants. Its occasion is blood-poisoning, which should never occur in a confinement if antiseptic precautions be taken. It used always to be regarded as incurable, but even that has been changed by the advance of medical science, provided always that no loss of time be permitted before the removal of the cause of the mischief and the disinfection of the contaminated parts.

Pulmonary. This is the term applied to everything in connection with the lungs. The pulmonary arteries and venis are so called because they carry the blood to and from the lungs, "Pulmo" is the Latin word for "lung"; thus we have pulmonary muscles, pulmonary nerves, pulmonary disease, etc. (See Langs and Consumption.)

Pulp of the Tooth. This occupies the centre of the pulp defs, the tooth loses its translucency, discounted the pulp defs.

the pulp dies, the tooth loses its translucency, dis-

the pulp dies, the tooth loses its translucency, discolours, and decays.

Pulse. The beat or throbburg of the heart and
arteries. The normal rate, in adults, averages about
70 per minute, and its increase, during fever, indicates
the force of the latter, ju which it some times ries to as
much as 120 to 140 per minute. At birth its average
has been computed at 120 per minute; but it drops
down to 88 by the time five years have been completed,
10 98 when the "teens" commence, gradually subsiding
to the mean till the age of twenty-five years has been
attained, when it ries slightly again up to thirty
years old, thereafter steadily to decline. In extreme
age it will fall to 00, and sometimes to the feeble pace
of 40 and even less

Pupil. The "apple" of the eye, or transparent

age it will fall to to, and sometimes to the feeble pace of 40 and even less

Fupil. The "apple" of the eye, or transparent portion of the cornea, surrounded by the iris or coloured matter. The pupil, which is really a hole by aperture, issenlaying lor diminished, according as the ins contracts or dilates. It permits light to pass directly through the lens to the return.

Furpura. "The Purples," a kind of scurvy, consisting of spots or patches of a purple colour, resembling bruises; they are occasionally accompanied by a tendency to bleeding at the nose, and some feverishness. This ailment is indicative of want of tone, and muritated theture of iron with quinine admixture may be taken advantageously, sulphate of magnesia being added should there be any tendency to constitution. Steel wine, with generous dietary, suffices for children. Fus is the yellowish-white natter produced by inflammation, and discharged from the abscesses granulating surfaces, ulcers, and open wounds. It may be "healthy" or "unhealthy." Laudable "pus" or "healthy matter" is a thick and creamy faint-odoured fluid, having an alkaline reaction, its composition being water, fat, albumen, some salts (chiefly common salt), and extractive matter. Really it is the blood in a vitiated condition from inflammatory disturbance, and abounding in white cells especially. turbance, and abounding in white cells especially

Pustule, Malignant, is due to the introduction

Pustule, Malignant, is due to the introduction of the poison of charbon or anthrax into the skin, and used always to be regarded as fatal. Latterly the subcutaneous introduction of antiseptics round the neighbourhood of the pustules has generally killed the parasite and ended the malady. (See Anthrax) Pustules are pimples which contain pus, and are due to decomposition in serum effused in limited agea on the skin surface. Appearing first usually in the guise of clear vesicles, they presently put on a purulent form. The formation of pus, in these circumstances, is accompanied by high fever, wherever there is extensive eruption, as in small-pox.

Putrefacation. The decay and destruction of organised matter by chemical decomposition, with the consequent production of new compounds, generally

organised matter by chemical decomposition, with the consequent production of new compounds, generally gaseous in nature. This is a condition almost always perilous to human health and life.

Pysamia, an old term signifying pus in the blood, but now called "blood poisoning," is always attended by high fever, which may abate only to come again with increased violence. It is due to poisoning through the absorption of germs. The suppuration affects the blood itself and gives rise to coagulation or clot in that fluid. This is reduced to nus, and sooner or later the

blood itself and gives rise to cogguistion or ice in that fluid. This is reduced to pus, and sooner or later the patient succumbs to the septicamia which results should the disease not be checked. Pyzania commences with rigors and a very high temperature, followed by profuse perspiration.

Pylorus. The lower and right orifice of the stomach guarding the entrance to the bowels.

Pyrogenais. The formation of pus.

Pyreatic. Medicine alleviating or removing fever.

Pyrosis or "Water Brash" is a consequence of indigestion, and is usually associated with heart-burn. It is a most disagreeable disorder recognised by cructation of water fluid. Soups and stews will give rise to it in many cases where the stomach is not strong. Bismuth before meals, in ten grain doses, will usually ward it off.

Quartan. Designating the fourth, as quartan ague, when the intermittent attacks return about once were everty-two hours.

m every seventy-two hours,

Quicksilver. The metal mercury much used in

Quickslives. The metal mercury much used in modicine. (See Mercury.)
Quinine is the principal and highly important below the continuous principal and highly important later than the continuous beneficial use, and it is a valuable curative agent in neuraliza, a tonic in debility, and anti-pretic in some fevers. Applied locally it is efficacious in eczen't and other skin affections.
Quintay's form of tonsillis which has proceeded a suppurgious is a very nainful thrust affection indeed.

to suppuration, is a very painful throat affection indeed. It is frequent in persons subject to rheumatism, and sometimes immediately precedes an attack of rheumatic sometimes unmediately precedes an attack of rheumatic fever. Both tonsus are badly inflamed, and the uvula and part of the marynx are generally implicated. The symptoms, apart from the actual inflammation, are a white-furred toigue, high feverishiness, excessive difficulty and pain in swallowing thrist, and great threat soreness. As the disease progresses, the swelling greatly increases, almost to suffocation point, when the crisis is reached and suppuration affords relief. Quincy almost always comes when the leastly generally is low, and on the appearance at such times of torsiliss, it is and on the appearance at such times of tonshitis, it is advansable at once to take as a quingy prophylactic salicin and chlorate of potash in gualaciim mixture. The inhalation of sulphurous acid is alleviative in actual quinsy, but the disease, once commenced, will usually have its course.

Rables. Madness: hence rabid, generally applied to a dog supposed to be mad; and rabidness, the dreadful disease sometimes following its bite, otherwise collects but control services are collected by the best of the collected by the collected of the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collected by the collecte

dreadful disease sometimes following its lite, otherwise called hydrophobia (which see).

Rachialgia. Pain in the spine; rachitic, rickety.

Radius. The bone of the forearm, reaching from the elbow to the wrist, so called because of its power of revolving round upon the ulna. The radius lies to the thumb side when the arm is held with the paim

Ranula. A tumour under the tongue, an enlarged salivary gland, secreting a glairy fluid, and generally requiring surgical removal.

Rash. The popular term for many descriptions of akm affection, and especially to the eruptions and discolorations of scartaina, measles, scarter fever, nettle-rash, etc. It is supposed that the name arose from the sudden manner in shich the eruptions sometimes appear in exanthematius disease.

Rattiams. The characteristic sound of the breath spingle in croup; also the particularly impressive noise made by the parting breath of a dying person as it passes through mucus in the throat.

Restum. The lowest part of the intestine, terminating at the anus. It is regularly cylindrical, contracting in transverse folds, and capable of very considerable distention.

Resturent. Returning at intervals, as certain

Recurrent. Returning at intervals, as certain iscuses or certain symptoms thereof.

Red Gum. A skin affection common in infancy,

resembling eczema, and due to teething irritation.
Tepid bathing a fluid magnesia aperient, and a little sinc ointment should the irritation prove intractable,

Tepid bathing, a fluid magnesia aperient, and a little sinc othnient should the irritation prove intractable, will generally set this ailment right.

Relapsing Fewer. A fever differing materially from either typhus or typhoid. It is sometimes styled "famine fever" because of its proneness to atrack the under-fed, and in Germany the disease is often called the "hunger pest." It begins with sudden shivering, frontal headache, and giddiness; proceeds to high fever, with hot skin, white furry tongue, rapid pulse, jaundice, sweatings, and delinum; while there are often as an accompanying feature nausea and vomiting, aleeplessness, pains in the back and muscles, and anxious expression. The fever will rage from five to eight days and when matters seem at a crisis a quick change will come of a surprising character, the fever subsiding, a profuse perspiration exuding from every pore of the pain-racked body, and every appearance of recovery be made manifest. But about the fourteenth day there will come a relapse to the footnessate sudge for the substitute anamer, the tendency to syncope being most marked in the sweating crisis. Stimpulous should be eviven and restreatives level. repeated in a very exhaustive manner, me tennency to syncope being most marked in the sweating crisis. Stimulants should be given and restoratives kept always at hand. It takes the patient many weeks to get over relapsing fewer and its effects, at the best.

Remittent Fawer. This endemic fewer differs from ague in there being no distinct intermissions, but

frequently recurring attacks, chiefly in the early morn

frequently recurring attacks, chiefy in the early morning. The treatment is substantially similar to that proper in the case of ague, quanne being the staple medicine usually employed.

Respirators are instruments devised for the purpose of purifying the air before inspiration, and for protecting the air passages generally, especially in cold, damp gr foggy weather. In case of difficult breathing and troublesome cough, soothing substances

breathing and troublesome cough, soothing substances such as creosote, chloroform, menthol, etc., may be introduced into the respirator, with great relief.

Retching, the panful impulse to vomit which results in nothing further than the bringing into the mouth of mixed mucus and saliva, may generally be relieved by keed soda water; but obvinate retching may require a dose of hydrocyanic acid to correct it.

This deadly poison should not be taken, however, unless and as prescribed by a doctor.

Retina. The internal coating or tissue of the eye. thiess and as prescious by a country.

Retina. The internal coating or tissue of the eye.

It is a delicate, semi-transparent membrane, composed
of the expansion of the optic nerve, its function being
to receive the impressions of external objects and
carry them on to the brain. When this portion of the
visual machine gets out of order, we have the disease
whilst drousy behind the mem-

visual machine gets out of order, we have the disease known as amaurosis, whilst dropsy behind the mem-brane may detach it from its matrix or a blood vessel may be ruptured within the retina itself. (See Eye.) Rhatany. A Peruvian root, a tinctu's of which is used in the treatment of chronic diarrhoes for its astringent properties. It may also be applied to spongy gums, and the powder makes a useful styptic in cuts and abrasions.

Rheum. An increased action of the muscles of any organ, the term generally being applied to that of the mucous glands; hence "rheumy, painful affliction garrakes of the character of both the diseases included

in its descriptive appellation, and attacks the hands and feet for the most part. There it becomes very difficult indeed to eradicate. If more gouly than rheumatic as to symptoms, the treatment should be a modification of that proper in gout jout if the rheumatic features predominate, then rheumatic remedies will be most likely to prove alleviative, and the salicin

will be most likely to prove alleviative, and the salicin may be given a trial.

Rheumatism. An inflammatory or febrile affection that attacks the joints and muscles or their coverings and sheaths in various parts of the body. When the more important joints are involved by the most active form of this very painful disease, the seizure is known as rheumatic fever, because of its being accompanied by pronounced febrile conditions, Less active forms of rheumatism are styled sub-acute, chronic, or neuraloic. In the acute form the ionist are Less active forms of rheumatism are styled sub-acute, chronic, or neuralgic. In the acute form the Joints are so painfully sensitive to the slightest movement that the patient dreads the slightest movement of the bed clothes. The Joints are red and swollen, and a high degree of fever accompanies general functional derangement. The seat of infammation changes rapidly from Joint to Joint, the pain returning to the Joints from which it removed. In sub-acute rheumatism the symptoms are of a nuscular character. Rheumatic headache and lumbago belong to this class. There is no fever in neuralgic rheumatism, and it is intermittent or periodic, but, at its worst, it is perhaps most excruciating of all. Rheumatic fever is apt to set up infammatory action of the pericadium and the heart periodic, but, at its worst, it is perhaps most excruciating of all. Rheumatic fever is apt to set up inflammatory action of the pericardium and the heart itself, attended by palpitation, and it is not infrequently preceded by tonsilitis. Constipation is considered to be an exciting cause of rheumatism; exposure to damp and violent changes of temperature tend to promote it, and it is undoubtedly often of hereditary origination. Salicine (which see) is a very valuable rerredy in rheumatism, and its use has quite revolutionised the approved treatment of this painful malady. Residence in a dry soil district is desirable for resunsation, and its use has quite revolutionised the approved treatment of this painful malady. Residence in a dry soil district is desirable for resunsation of the salicine of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine function of the salicine f

for bone nutrition, and cod liver oil and steel wine given for constitutional up-building. Padded splints may be worn if roally necessary, but rest and tonic treatment should obviate this as much as possible. A rickety baim should not be permitted to try to walk until its legs can stand the strain, or they will be malformed. Better be an invalid for a few weeks or months in early

childhood than a cripple all through life.

Rigor or Entwers, is that unnatural condition—a consequence of some grave constitutional disturbance—in which a person with an abnormally high temperature has the impression of being very cold, and shivers accordingly. It usually presages sever associated with blood contamination or some severe inflammatory trouble. But Rigor may be attributable also to nervous irritation of a pronounced description, when it need not be regarded so seriously as if arising from septic influences. It is always an alarming thung, and should cause the calling in of the doctor, who will be able to diagnose the case and administer accordingly. Ring worm. This ugly visitation arises from a fungoid growth of a contagious character which establishes itself within the hair follicles of the scalp, chiefly, in children, but may occur in the beard of man, Rigor or Shivers, is that unnatural condition-a

estàblishes itself within the hair follicles of the scalp, chiefly, in children, but may occur in the beard of man, or over any part of the body. There are several distinct varieties. Porrigo sentulata, "scald-head," is common form, Herpes circinatus is the name given by medical writers to the ringworm of the body, that of the beard is called Sycosis; and Thea tonsurans is the correct style of the scalp variety. All are highly contagious and easier to get than to get rid of. Those established in hairy tissue must be washed with carboic

soap well, have all the hair cut away that, if possible, being plucked out by the roots. Then the sponging of the spots with bi-chloride of mercury in solution is recommended, two grains to the ounce of such a commended, two grains to the ounce of the spots with bi-chloride of mercury in solution is recommended, two grains to the ounce of such a continue the such as the one of the particularly effective, is one part of the oleate of zinc oliflment to which has been added on-eighth part of aristol, mixed well with as much oleate of mercury as there is of zinc. Let this be well rubbed in night and morning and continue the inunction for some days after the ringworm seems to have disappeared. A tonic, cod-liver oil and particularly nonpiled with a brush, will occasionally succeed in clearing off the facial or body ringworm.

Rose Rash. This slight febrile eruption is sometimes very difficult to distinguish at first from measles, and in other cases closely resembles the beginning of scarlet fever; but the constitutional disturbance accompanying the enuption is relatively slight, and it is very soon certain that rose rash is only the trifling affection, which will yield to careful dietary and a little dabbing with vinegar and water.

Rupta. An eruptive disease characterised by broad and flat vessels, the scales of which are easily rubbed off and reproduced.

Rupture. The protrusion of one or other portion of the bowel or of any of the contents of the adominal cavity. In the groin it is called inguinal hernia, the most frequent phase; at a lower level we get femoral hemia. There is umbilical hernia also at the navel, most common in women who have experienced maternity. Rupture may be congenital or acquired, and when a baby is born with hernia anywhere a truss should be obtained for it, and it may very likely outgrow the abnormal condition. A rupture occasioned by strain will after return usually have to be kept in place by the constant wearing of a properly fitted, truss. A rupture, wherever and whenever it occurs, sh

Trusces should always be most carciuly fitted, both for safety and comfort's sake, and chosen under the direction of the surgeon who has reduced the rupture.

3t. Yitus's Dance, technically called "chorea," and in Frauce "Dance of St. Gily." This peculiarly distressing aliment is undoubtedly of nervous origination. Its manifestation is inability to direct and control the action of the voluntary murcles, and it is chefly the action of the voluntary murcles, and it is chefly the action of the voluntary muscles, and it is chiefly found in young persons constitutionally debilitated. The characteristic twitching of the muscles of the neck and face, particularly in the neighbourhood of the mouth, precede more active symptoms of erratic limb motion which, with the ungovernable grimaces of the poor patient, are pitiable to behold. Let the nerves be soothed by valeranate of zinc prepared, but try to get at the root of the mischief by attacking the cause. Medical men prescribe arsenic as a typical remedy in this ailment. Vigorous and thorough handling of the case whilst the person suffering is of tender years should result in the eradication of the disease. If St. Vitus's Dance is seen as a chronic condition in puberty, it often becomes quite intractable. Chorea often occurs after a fright. This curious allment in olden days was the subject of much ignorant superstition, the poor sufferer therefrom being regarded as "possessed of a devil"

Ballain is a wonderful drug which, if all that is

as "possessed of a devi!"

Salicia is a wonderful drug which, if all that is claimed for it be correct, should be the saviour of untold suffering. It has been held by physicians of the newer school—who therein only follow certain believers in "simples"—to furnish a specific in rheumatism and it undoubtedly often proves palifiance in this painful affection. Salicin is a crystalline substance obtained from the bark of the willow tree, and one of the sources from which salicylic acid is prepared. It makes a most bitter pill or potion, and is in several respects not without affinity to quinine, the active principle of cinchona, the sgue specific. Salicylic acid is useful in medicine as well as in the arts and the

manufacturing world, and comes in very useful in the dressing of wounds. There are those who swear by salicin in tonsilitis and all rheumatic aliments, where

dressing of wounds. There are those way save salician in tonsilitis and all rheumatic aliments, where salicities of soda is also valuable.

**Ealiwa**, the secretion of the salivary glands, which moisten the mouth and assist mastication to prepare the food for swallowing, and for the action of the gastric juice and other digestive fluids. Exuded by the glands surrounding the guns, which are stimulated by chewing into activity, saliva quickly changes the starchy constituents of our food into glucose (a form of sugar). To "make one's mouth water "is to start the saliva flow, setting at liberty the powerful ptyalin that can transform disatsee and starch into digestible sugar instantly, and so act as a preventive of acidity and fatulence. The salivary glands consist of the parotids in front of the ears, where the "mumps" make mischief with children sometimes; the sub-marillary, under the law angles; and the sublingual below the tongue. Each has a discharging duct.

**Saliwation**, the excessive secretion of saliva, produced by unercurial overdosing, by foulde of potassum, or too extensive medicinal administration, or by diseased conditions of the nervous system. A very diseased conditions of the nervous system. A very diseased conditions of the nervous system. A very

duced by inercurial overtosing, by lottide of pocassium, or too extensive medicinal administration, or by diseased conditions of the nervous system. A very little inercury will selivate some folk; others may swallow much with impunity. Salivation is accompanied by great gum soreaess. The way to correct it is to use astringent gargies, and relieve the prostration, which frequently follows, by generous tonic treatment. Balol comes from coal tar, and its solution makes a remedial lotton for inflamed rheumatic joints, while sometimes it is administered internally in 5 to 15 grain does for the relief of fever and rheumatic attacks with good effect, though in other and apparently similar cases it will fail altogether. It is also used to correct fermentation of the food in the bowels.

Sail Franella. Purified saltpetre, an antiquated but long popular sore-threat remedy.

Sais (Chloride of Sodium) is a natural and necessary stimulant to the digestive functions, secretaed in the maternal milk. Without sait in some form—that most commonly used is the chloride of sodium—otherwise nutritive food could not be solved and alsorbed,

most commonly used is the chloride of sodium—otherwise nutritive food could not be solved and absorbed, and the whole human race, civilised and savage, is ware of its indispensibility. It is not, generally speaking, given to infants and children quite so freely as is desarable for the maintenance of the best health condutons. It is found abundantly on land and in water, and wherever it may by circumstance become scarce, it is a commodity of priceless value.

Sait of Tartar, Carbonate of potash in an inpure state. An old name for a cleaning substance.

Saitpeffree. The mirate of potash or nitre, used in India and elsewhere in the composition of a cooling mixture. It has durette properties, but can scarcely be classed as a safe and altogether desirable medicine.

medicine.

medicine. Salts, properly speaking, are the result of the combination of an acid with a base, as Epsom balts, Glauber's Salts, and, trange to say, the "salt of the earth"—the salt of all salts, the common salt of every household, is but a compound of chlorine and the metal sodium.

Sal Yolatile. Carbonate of ammonia, a solution of ammonia in spirits of wine, a very valuable stimulant and antiseptic, and an admirable restorative agent in and antispire, and an administer explorate weather the treatment of faulting hysteria, asphyrate by drowning or hanging, prussic acid poisoning, etc.; also an alleviative of fatulency.

Bantonin, the active principle of wormwood, is poisonous to round worm and to thread worms, the last

polsonous to round worm and to diread worms, the last troublesome parastres to children. A two-grain dose, preceded and followed by castor oil, and given in milk, will usually—if repeated at intervals of eight or twelves hours—succeed in hanishing these britisting little pests, which are often accountable for convulsions.

Sarcines Ventriouil. Very undesirable fungoid developments present in high acid conditions of the stomach secretions, and the outcome of pronounced dyspeptic disorders. The fungus is apt to attack those whose dietary has a vegetable staple, and it is often accompanied by depression and irritability with a general inclination towards morbidity. Hyposulpate of soda will destroy the vitality of the growth, but

treatment should be addressed to the invigoration of

treatment should be accuracy.

the stomach and digestive system.

Sassafras. A stimulating sweat-producer in rheumatic and some skin ailments; generally given in rheumatic and some skin ailments; generally sassafras.

Ramaches. A stimulating sweat-producer in rheumatic and some sich ailments; generally given in combination with guaiacum and sarsaparilla. Sassafras should not be taken without the doctor's orders. Sawin makes a stimulating eintment, and, indeed, so printent mome cases as to be called into requisition for blistering purposes. Internally it has been administered for the correction of menstrual irregularities, but must only be used by a medical man. Scables. A synonym of "ltch," the ailment being artributable to the minute mite "Acarus scables. This disagreeable disorder used to be called the "seven years' itch," because of the difficulty experienced in its eradication. The "Acarus is microscopic, but marvellously instinct with vitality. A single female, finding its way to the finger-roots at the back of the hand, will produce a family of tens of thousands in a few weeks, fu unmolested, and give rise to multivations pimples of a most urritating claracter. (See Isch.)

Seald Head. An eruptive pustular scalp affection, forming incrustations of a loathsome and confluent character, and due to a fungoid growth induced by dirt and unwholesome dietary surroundings. There is much irritation and a pocularly unpleasant odour is emplication of a botan poultice and an onitment of oleate of mercury and oleate of zinc, rubbed in night and morning after cleaning and cutting the hair closely. Simultaneously alterative powders of a suitable character should be administered.

Scalds. Apply a landful of crushed common washing soda, under a folded cloth, preferably of

suitable character should be administered.

Soalds. Apply a landful of crushed common washing soda, under a folded cloth, preferably of inen, steeped in, and wrung out of cold water. Let these remain on until the severe pain is allayed. Afterwards anoint with a lininent made from the raw white of eggs, or smear with olive or linisced oil, which may be dressed upon the part plain, or mixed with fine whiting or powdered chalk, dusted over the oil with a kitchen flour dredger. Bandage to further exclude the sir

exclude the air.

Scalp and skin of the head is denser

Scalp. The scalp and skin of the body generally, Scape. The scalp and skin of the head is denser and thicker than the integument of the body generally, and connected by cellular tissue with the parts immediately below. The scalp is largely supplied with blood vessels, hence the profuse hemorrhage which sometimes arises from a severe scalp wound. In treating such, it is necessary to cut or shave away the ball closely for some distance around the mij red the hair closely for some distance around the mi red part, washing the wound with some antiseptic solution, part, washing the cut edges together with adhesive plaster dipped in boiling water. Apply a h.t pad and bandage. The stitching of a scalp wound is in-advisable because of the risks of inflammation.

Scapula. The shoulder blade, which serves to connect the arm with the trunk and gives attachment to many of the muscles by which the former is put in motion. It is a broad, flat, trangular bone, over the back of which a ridge runs for the attachment of the

Board Skin. The epidermis or cuticle, the upper layer of the skin, liable to numerous affections, such

as ecsema, psoriasis, pityrasis, etc., which see.

Scarfing tion. Incision of the skin by the lancet or other sharp instrument. This is necessary for vaccination, and is frequently resorted to upon the grims of children in teething troubles; also elsewhere

grims of children in teering troubles, and con-for the relief of adjacent conjected tissue.

Scarlatina. The term usually applied to a mild form of scarlet fever; but it should never be forgotten that the malady has the same origin and character-istics as the more virulent type of the disease, and even when the attack is what is styled davourable, it may

even when the attack is what is styled favourable, it may be followed by dangerous complications so that the convalescent stage requires very careful watching. Scarlet Fewer. The full and pronounced phase of scarlatina, differing therefrom only in intensity; is an eruptive febrile malady liable to attack children of any age, and common also in adults. Sometimes scarlet fever is epidemic, and will prove prevalent in waves; that is to say, there may be many cases in a district at about one period, and, after the force of the attack has spent itself, immunity for months and years,

No doubt the disease is propagated by a specific germ, which may be carried in milk or in the air, and is very highly infectious. The fever is preceded by languog, pains in the back and head, and cold chills, the forerunners of all kinds of febrile disorders; but the special symptoms of scarlatina and scarlet fever are difficulty in swallowing, howevers, throughout the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same o the special symptoms of sceriatina and scarlet fever are difficulty in swallowing, hoarseness, pronounced throat soreness, and peculiar speckled or "straw-berry" appearance of the tongue, the papilies standing out bright scarlet, from the edges of the tongue being also very red. There is a great thirst, difficult breathing, and high temperature, with more or less enlargement of the glands of the neck; succeeded by a characteristic rash, commencing on the forehead and face about the third day, and extending to the neck, shoulders, and trunk, until the entire skin assumes the resemblance, as to colour, of a "sized lobster. When the eruption is complete, the unrency of the febrile symptoms grad ally babtes," ... t. assumes the resemblance, as to coour, or a "acceptable boster. When the eruption is complete, the ungency of the febrile symptoms grad ally abates, " at the seventh day the cuttle begins to peel on m dust and fakes and sometimes even in large pieces, the outer skin of the fingers coming away occasionally like the fingers of a glove. The whiteness of the tougue on the tenth day changes to a uniform beefy red, and should the d sea". take thereafter a favourable course there wall be steady recovery, though very great care is requisite auring the desquamation period to prevent chill, the new skin being most susceptible. In malignant scarlet fever the shock to the system is so extensive and violent as gravely to endanger life, and dropsy is a frequent sequel. When the throat mischlef is agravared, poulting will be necessary; for the rest the low diet of fever generally and particularly careful nursing are essential in scarlet fever, with the most unremitting rate niton to dismisciant precautions. Free ventilation is very requisite.

Solazion is really rheumatism, occasioning acute

infectant precautions. Free ventilation is very requisite.

Solation is really rheumatism, occasioning acute neuralgia of the sciatic nerve (or of its sheath), the largest, in the human body. Not only the trunk of the nerve in hip and thigh will be affected by excruciating and temporarily prostrating pain, but the branches supplying the cail of the leg and foot are frequently affected. Disabiling the sufferer from moving about and very seriously interfering with his resi, this particularly punishing mala 'y is not dangerous to life, and is due to the fact that the scatte nerve sheatl is congested by rheumatic agency, and presses uputertensive and sensitive vessel. Any blood due to ma, contribute to the unset of stratic, especially are the theumatic tendency is existent; and tree. may cont-bute to the unset of static, especially are the rheumatic tendency is existent; and tree. Let's should commence with the endeavour to combat the cause of disturbance. If it he constipation the lower bowel must at one, be cleared, and kept regularly clear, the blood heing freed from the faccal matter it has absorbed. The general mealth must have attention, for a debilitated condition may of itself midne see the in cases. The supplementary treatment is as for in cases. The supplementary treatment is as for rheumatsm proper; and counter-irritation may be resorted to scally for the relief of the acute nerve pain during the general curative process. Civaneous injection of morphia is sometimes insisted upon but sufferer, because of the practical certainty it affords of temporary sure ease from nerve torture; but this treatment is to be deprecated, save in very but this treatment is to be deprecated, save in very exceptional circumstances, the proper thing being to drive away the pain by removing its occasion, and not merely to deaden it by the administration of a potent drug. Salicin is an important remedial agent in effecting requisite blood reform in sciatrica as mentioned in the general article on rheumatism; and phosphorus in the food will be found helpful.

Solirghus signifies a hard tumour, occurring in any

The condition is commonest in the breast as a form of cancer, and when surgically interfered with in a timely way will frequently be prevented from ramifi-cation to surrounding tissue. Nothing short of the knife is scarcely eradicative of scirrhoid affection, and there

is scattered readinative of scirrhold affection, and there
must be no procrastination.

Bolarotic, the outer layer or coat of the eye,
dense and fibrous, stretched over the vascular choroid
coat. Scierottis, or infamination of the membrane
is always marked by livid congestion and severe aching round the eyeball; and rheumatism is frequently the cause of trouble in the sclerotic coat. Sclerophthalmia

is the technical term for a painfully swollen and hard condition of the eyes and eyeball, incident to the part of the visual organ here mentioned.

Scriware's Paley or "Writer's Gramp." A species of local paralysis of the muscles of the hand and fingers induced by their overwork. (See Parklysis.)

Garofula indicates lowered constitutional vitality.

sdrovqua indicates lowered constitutional vitality, which may tend to produce many forms of distressing disease, first of a glandular character, and later more exten.i. and serious. If it is not to culminate in consumution it should be coped with immediately upon manifest.tion. Muriate of calcium is a splendid specific, cod-liver oil and extract of malt are most invaluable cod-liver oil and extract of malt are most invaluable remarked agents, systematically employed from the beginning. If the scrofulous tendency is not conquered by the restoration of healthful energy there will have been added to the control of push malt be suppuration in the absorbent and, and, and should this not be properly treated by the evacuation of push ngly scars will result.

South "rises" from unhealthy condition of the skin of the scar lue to the circumstance that the cells which ower the outer cuticular layer are prevented from wriving at maturity, and are consequently thrown off in the form of andruff (which see). A simple application for this allumint is an admixture of the best vinears with water in with a lumn of quick-lime has

application for this alim-int is an admixture of the best vinegar with water in wh. h a lump of quick-lime has been dissolved over-night, the lautid being strained from sediment. The roots of the hair only need to ewetted, and the application is quite harmless.

Sourry, a disease due to want of sufficient potash in the food, is cl. racterised by livid spots, debility and constitutional exhaus.on, and often attended by feeti dreath and bleeding from the mucous membranes, belongs to the large class of preventable maladies which increasing observance of the laws of health and dietary have within living memory very much reduced in extent and frequency. Where scarry occurs at all its treatment usually consists in the administration of plentiful supplies of it. eo or lemon juice, contaming substances alled to potash, to make up for the lack of vegetable essences in the food which brought about the nischef. the mischief.

Boybala are hardened fæces from which the liquids Lave been absorbed during undue retention in the low bowel. So bring as they are permitted to remain they will occasion more or less obstruction and irritation, a.d may induce febrile conditions—and in uniderengue rise to convulsions. Hence it is always advisable

tooi, a.d may induce febrale conditions—and in unideren river rise to convulsions. Vence it is always advisable to effect their removal by the use of an enema, or ir sctions of soap and tepid water.

Asbaceous Glands. The sebaceous glands a.e whose munte fatty glands o. the k i which secrete willy matter for moistening und render it elasace. I they be clogged at the outer critt, their pores b int we get "blackheads" or anne. Cleanliness and frequent from will keep the sobaceous glands in good im. If they get out of order, extra avation with the use of a lotton composed of elder water, glycerine, rectific spirits, and flowers of sulphur will usually be found reme-tal. found remodual

Secretion signifies the powers possessed by the

Secretion signifies the powers possessed by the soveral organs of soparating substances from the blood. Thus we have the secretions of bile by the liver, of the gastric juice by the stomach, and saliva by the salivary glands.

Sedatives

are includes designated to restrain the action of the various functions of the body, removing simultaneously scuisibility to pain. Acting first upon the nervous system, they influence the secretions, and if properly selected and applied produce the results desired. Amongst the sedatives most commonly employed in medicine, all of which are referred to elsewhere, are chloroform, menthol, opium, belladonia, and bromide of potash and of sodium. All these and others act locally on external application, while and others act locally on external application, while administered internally they aid the system generally.

Senna, one of the most useful puryatives in the Pharmacopoeia, has been known as such in Arabia and

rnamacopoeia, has been known as such in Arabia and the Orient for ages. A most effective article of domestic medicine, it should never be administered where there is inflammation or great irritation of the bowels, but as a palliative to habitual constipation it may be employed frequently without aggravation of the causes of the mischief.

Serous Membranes envelop the brain, line the chest and abdomen, and cover all the vital organs therein situated. Surrounding the brain the serous membrane is called tarachnoid, in the abdomen the pentoneum, and in the chest the pleura, all of which see. White in health, it becomes red when inflamed, its vessels being charged with blood unduly, and is apt to form when thus disordered dangerous adhesions. Dropsies are occasioned by abnormal excertion from the serous membrane, through the blood fuid or serum collection; in cavities and not being carried away.

the serous membrane, through the blood fuild or serum collecting in cavities and not being carried away.

Berum, the fluid part of the blood. In a blister, scald, or burn, it collects under the skin, and exudes upon the puncture of the cuticle. Technically termed the liquor sanguinis and plasma, it largely consists of water, and holds in suspension the red and white blood corpuscles, and contains in solution salts of potash, soda, lime, and iron.

Shingles, the "herpes zona" or "zoster" of the scientists, is a peculiar and very troublesome disease of the skin. cruptive and inflammatory, generally attacking the trunk, and preceded by febrile conditions. Accompanied by scalding heat and tingling sensations, the shingles usually appear in early puberty when there is a debilitated constitutional condition, the eruptions spreading in a line from the front to the spine, filling with serum and breaking about the fourth eruptions spreading in a line from the front to the spine, filing with serum and breaking about the fourth day, leaving a dark scab which, on falling away, occasions slight pitting. Pain in the part sometimes follows, which may be relieved by anodyne applications. Shingles indicate the necessity for general tonic treatment and generous dietary. (See Harpasa.) Short Sight, so called, arises from maiformation in the cornea, and may be congenital or acquired by close occupation involving continuous eye-strain. Suitable glasses must be worn for the relief of the aliment, and rest may also be requisite. (See Hyppia.)

Bide Pain. A pain in the side may arise from some very unimportant cause, or it may point to the existence of serious mischief. If intensified upon drawing a long breath, it may very likely indicate an

existence of serious mischiel. If intensined upon drawing a long breath, it may very likely indicate an inflammatory condition of the pleura. If on the right side and low down, it is frequently associated with bowel trouble and appendicatis or with typhodi fever Pail: in the region of the groin in females often originates in ovarian disorder. Neuralgic spasms in the adecommonly relate to some muscular rheumatic affection. In any case of continued side pain, the cause should be

Sinapism. A technical tenn for the mustard plester or ponitice.

Skin. The health of the individual is dependent very larger upon the proper performance of the skin's functions Roughly, the skin may be divided into two functions. Roughly, the skin may be divided into two portions—the dermis, or true skin, called also the cuts wera or cornum, and the outer skin or epidermis, sometimes styled the cuticle or scarf-skin. The skin is continuous with the mucous membrane. In the epilethial cells under the passages to the interior of the body, and the mucous membrane. In the epilethial cells under the surface of the cuticle is carried the pigmentary matter which makes a man white, yellow, or black, and the epidermis varies in thickness according to the uses of the parts it covers. The dermis is made up of connective tissues enclosing the blood-vessels, nerves, and glands, and beatremely sensitive requiring the wrapping of the elastic sensationless epilethial longer for its protection. The outer skin must have its pores kept constantly free from the must have its pores kept constantly free from the exudations of the sweat glands by systematic lavation, candations of the sweat glands by systematic levation, combined with the requisite friction. This universal necessity of humankind can only be efficiently accomplished by the employment regularly and systematically of pure detergent soaps, such as Peare', the scientify reparation of which has been brought to perfection by the projectors of this Dictionary during a manufacturing career of nearly a century and a quarter's duration. (See also Epidermis.)

Bivill. The cavity of the skull contains within its unyielding bony walls the brain structure. The cranium is formed of 22 separate bones inclusive of those of the face, united by sutures somewhat like saw-teeth. Each of these boites is made up of two tablets joined by a spongy central portion, the outer

plate being tough and fibrous, the inner hard and glassy. The porous middle layer of the skull bones serves to neutralise the effect of shock from falls or blows; and the division of the cranium into parts circumscribes fracture. The bones most liable to be accidentally broken are the frontal and parietal, or the forehead bone and those side ones which form in the skull cap the dome and walls of the cranium above this temple. A simple fracture under careful treatment will be represe unite and heal of the first in exposure. will he repose unite and heal of itself; a compound fracture, accompanied by depression of an injured fragment and severe scalp laceration, is a grave matter, whether occasioning direct brain muschief or not, and calls for urgent surgical interference.

Ellough. That portion of dead tissue to be separated from a wound, the result of inflammation or injury. The removal of a slough should be effected antisoptically always, for obvious reasons.

Email Intestine. (See Duodenum, Ilium,

and Jajunum.)

Small Pox is rightly reckoned one of the most serious of all the eruptive diseases, though the ravages of the malay have been immensely reduced since sanitation obtained general and authoritative recogni-tion. How much Jenner's discovery of vaccination sanitation obtained general and authoritative recognition. How much Jenner's discovery of vaccination
and its compulsory application over a long series of years
as had to do with this diminution in suall pox cases
it would be difficult to say, but the enforcement of
hygienic observation, and the continuous vigilance
exerted by the State in stamping out contagion have
exerted by the State in stamping out contagion have
together contributed to the decline of small pox in a
manner most wonderful. Small pox begins with
shivering lassitude, "shinking at the stomach," intense
headache and pain in the back, accompanied by fever
and thirst. With the appearance of minute red spots
on the forehead, neck, arms, wrists, chest and abdomen,
and subsequently on the legs, commencing upon the
third day, relief of the febrile symptoms is experienced.
The eruption rapidly becomes more pronounced, the
spots attaining the character of vesicles and running
sometimes into each other, when we have the condition of confluent small pox. The pustules are each
depressed at the summit, and about the sixth or
seventh day after reaching maturity their contents
have changed from serum into purulent matter. On
the eighth day after the "spots" come out, the disease
is at maturity, decomposition lixing occurred in the
vesicles; and then very often comes on a secondary
fever, an aggravation of that which preceded the eruption. This is the most usual fatal stage of the malady; but it can be obvarted in many cases by the application
of a solution of carbolic acid in glycernie to every
pustule. Sometimes the swelling of the skin in the but it can be obvated in many cases by the application of a solution of carbolic acid in glycerine to every pustule. Sometimes the swelling of the skin in the more malignant type of small pox is indescribably horrible. Little can be done beyond careful nursing during the Course of the disease with disinfectant dressing, keeping the bowels regular, and supplying nutritive and digestive dietry. Great care is requisite during convalescence. Isolation is essential; and the hospital patient makes the most speedy recovery.

Enake Bite, or at any rate, bite from the fangs of a poisonous reptile, in this country can only arise from the bite of the viper or adder. Wherever it occurs it calls for instant treatment. It may be necessary at once to excise the figured part surgically, so swift and

calls for instant treatment. It may be necessary at once to excise the induced part surgically, so swift and deadly is the action by a part surgically, so swift and deadly is the action by a part surgically, so swift and it should at once be introduced into the wound, or it should be burnt with a red hot wire, and strong stimulants, such as alcohol or ammonia, administered internally. The sub-cutaneous injection of strychine has the effect of counteracting the virus of the bite in a marvellous manner; this of course requires the watchful superintendence of a competent practition—fermanganate of potash crystals moistened and rubbed into the bite, enlarged by cutting it, 145 safe and satisfactory mode of treatment.

Snuffice is an indication of catarrhal irritation, and the sufferer should be kept for the time being in an apartment at an equable temperature, introducing into the nestrils a little vesseline, or permitting the inhalation of some such soothing vapour, as that arising from old of excellyptus.

benedicial and in no wise injurious. Soap of this intrinsic worth is procurable only by buying the best, and eschewing all such as is made from inferior material or which contains irritant alkali in excess, no matter how showly made up or how meretricously scented.* The animal or vegetable fat employed ought to be of pure quality, combined with just enough soda or some other suitable alkali to neutralise the oleic acid and form the fats into an emulsion soluble in water. That is the principle of sound soap, the making of which requires carrying out with chemical and commercial integrity, and adapting to varied toller requirements by the exercise of expert knowledge. Such soap will be found the world over stamped with the name of Paass. This soap has been manufactured for over a hundred and twenty years, and has always rauked as the highest attainable value in this important class of article. There are certain soaps which medically, are much employed in pill preparation, to carry purgatives and other remedial substances; indeed, a pure soap pill would in litself possess slightly laxative properties. Soap always makes a convenient enum for injection in cases of constipation, and here spain the spurious article should be avoided.

Soap Liniment is sold ready prepared by the chemists, and is very useful in chronic neuralgia and rheumatism, and is a vehicle for more active rube facients. It is better known under the familiar name of opode, and alkali extensively used in medicine in its bi-carbonate form, and especially serviceable in acid dyspepsia. Its over-free use is prejudicial, because of its directly stimulating effect upon the gastne gland. In combination with tartaric acid the bi-carbonate of soda makes a very good effervescent beverage.

Sommamballagm, otherwise sleep-walking, is the

In combination with fattaric acid the bl-carbonate of soda makes a very good effervescent beverage.

Somnambuliara, otherwise sleep-walking, is the term applied to the peculiar condition of nervous disturbance which includer all the unconscious actions occurring during sleep. It belongs to disturbed dreaming and pronounced nightmare, and is excited by disordered nerves, often so rendered by some irritant agency, such as indigestion or its consequence, constipation. If the bodily functions are in orderly activity, abnormal and dangerous manifestations like walking, talking or screaming during sleep will be of rare occurrence.

Fare occurrence.

Sore Threat may be a simple relaxation, a malignant ulceration, or anything in between. It is at

more Throat may be a simple relaxation, a malignant ulceration, or anything in between. It is at times a premonitory symptom of some more or less senous ailment, as in scarlet feyer, quinsy, diphtheria, etc., and as such is frequently diluded to under other headings in this Dictionary. A common accompaniment of cold and catarrh, it is generally benefited by inhalations of steam, medicated or otherwise, by the application of linesed or bran poultices, by keeping in a warm room for a day and by a Dover's powder at bedtime, followed by a mild apenent in the morning.

Specultum, an instrument employed by physicians in the diagnosis of internal disease.

Spine. The spinal column in the human adult consists of thirty-three bones, but certain bones are beinded together. Such are the five forming the sacrum and the four forming the coccyx or "tail." The average length of the column is twenty-eight inches, the variation in stature of grown folk being chiefly dependent upon difference in the length of the lower limbs. The natural curves of the spine are sometimes eraggerated by disease, producing the deformity known as hump-byck. It acts as the shield for the vital spinal marrow, as well as enabling us to maintain uprightness.

vital spinal marrow, as well as enabling us to maintain uprightness.

Spitting of Blood is usually indicative of the existence of stomach, lung, or throat disease, and therefore regarded with very justifiable gravity. A person so affected should observe as much quietude as possible, suck ice, and take some safe astringent solution pending the procuration of medical advice. The dietary should also be regulated so as to avoid

Episen. An elongated gland, of soft and pulpy consistence, situated to the left of the stomach towards the diaphragm, this gland is believed to be concerned in the production of colouriess and coloured blood globules and also assists in disposing of wom

out blood corpuscles. It is a soft, spongy body, purple in colour, connected to the left kidney by cellular membranes. A similar giand in animals is called the melt, and has from them been removed without apparent interference with the functions of thay other organ. e Wall supplied with blood vessels, the spleen possesses no excretory duct or outlet, though it is four inches long, three inches wide and two inches thick. In protracted ague, particularly if much quinine has been taken, the spleen will often greatly enlarge.

Bylint. A long piece of wood, gutta-percha, or even a walking-stick, umbrella, or sword, or other suitable substance, used to sustain a fractured bone in position during setting.

position during setting.

Eponglopiline. A mixture of desiccated sponge with cotton or other lint, and after being rendered antispptic covered with waterproof material in the dressing of wounds, or used as a compress or in connection with fomentation.

nection with fomentation.

Sputum, or expectoration. In lung disease this should be promptly destroyed or effectually disinfected.

Squill. The bulbous scilla, largely used in medicine as an expectorant and diuretic in dropsy, bronchitis, and catarrhal affections of the chest. It is administered as a syrup ortincture, or in the form of oxymel; also in combination with other remedial agents. It is a powerful drug and needs discreet administration.

Staphyloma, enlargement of the eyeball, with protuberance of the comea, and consequent dim sight.

Steel is a splendid tonic, usually administered in form of tincture of Iron or steel drops. The oxide of Iron is the essential principal of the numerous steel preparations so much employed in the treatment of anzemia. These preparations are mainly astringent, and readily absorbed.

Stings of Insects. Apply salt water, iodine,

and readily absorbed.

Stings of Insects. Apply salt water, lodine, olive or insect oil, or weak animonia. If the sting be left in the wound, endeavour to extract same by pressing firmly over the puncture with a key barrel, or by wing a small pair of forceps or tweezers. A hot poultice over the wound will often draw out the rritating object, affording immediate relief to the inflammation. Stings upon the tongue from a wasp in fruit eating are very dangerous, and should be treated at once by a doctor, as dangerous swelling, leading to suffocation, may ensue

at once by a doctor, as dangerous sweining, leading to suffocation, may ensue.

Stomach, the reservoir of our food and drink, the organ in which certain processes of digestion are carried out. Its principal office is the conversion of alimentary substances fitto chyme, a subject which has been sufficiently referred to elsewhere. The stomach is the seat of many aliments which affect the system generally in greator or less degree, and have had reference in their proper places. As the great Dr. Kitchener once well said, "The stomach is the centre of sympathy," and is disturbed by lutt occasioned to any fibre of the frame. It is never called upon to suffer without communicating pain to other organs in some manner; thus dyspepsia is immediately indicated by fretting headache, which vanishes upon the removal of its exciting cause.

Stone is a common term for the concretions caused in certain diseased conditions of the bladder and kidneys. (See Gravel, etc.) is the seat of many ailments which affect the system

straining and difficulty of evacuation indicate an irritable condition of the colon, attributable chiefly to constipation or dysentery.

constipation or dysentery.

Stramonium, a common wild herb yielding a dry alleviative of asthma, for which the leaves are smoked in tobacco fashion. The seeds are sometimes employed medicinally in the treatment of rheumatism, asthma, sciatica, neuralgia, and tic. It is a substance, the use of which may make more mischief than it can correct, and so should not be used unless prescribed.

Strangury is a symptom of irritability and inflammation in the bladder, characterised by intense pain and difficulty in urination, and occasioning the passing of blood with the water.

Strangulation. A form of asphysic or suffoca-

of blood with the water.

Strangulation. A form of asphyxia, or suffocation by constriction of the throat, sometimes called
throttling or grotting. Such strangulation cannot
long continue without producing fatality.

Stricture, occurring in any of the bodily passages,
may be temporary or permanent, and is in the first

case generally due to muscular spasm. This stricture of the urethra, or passage from the bladder, coming en often with suddenness, will give rise to straining after urination with inability for its accomplishment. The warm bath or an opiate may yield relief, but frequently the use of a catheter will be requisite. Permanent stricture is morbid contraction of the passage concerned mainly accounted for by cancer or humbur growth. Sometimes curable by surgery. Sometimes intractable to treatment growth. Sometimes cur intractable to treatment.

Strychnine, a peculiarly poisonous alkaloid, obtained from the bean of Nux Vomica. In some forms of paralysis it is useful as an injection in small quantities, and is also antidotal to most snake

poisons.

Stye, a painful pimple upon one of the eyelids, proceeding usually to suppuration and usually giving rise to considerable disturbance as well as pain. It is a kind of small boil in a most inconvenient situation, and indicates almost always a low condition of the and indicates almost always a low condition of the general health. Hot formentation, great care being exercised not to injure the eye, will usually afford relief by bringing the suppuration to a head, but the juncture may prove necessary. An aperient may bely matters, with tome treatment to follow. The eye should never be poulticed.

snouid never be positived **Sulphates**, combinations of sulphuric acid—an
oily liquid formed of three equivalents, one of oxyge
and one of sulphur, with some metallic base, as sulphate
of magnesia, sulphate of soda, otc. These salts are
much used in medicine. Sulphate of zinc furnishes
a very valuable astrugent lotion.

much used in medicine. Sulphate of zinc furnishes a very valuable astringent lotion.

Sulphur, an elementary inflammable body found in great quantities in volcanic neighbourhoods. It is employed medicinally as milk of sulphur, flowers of sulphur, confection of sulphur and sulphur olatment. Its use internally will occasion the passing off of sulphur, the sulphur sulphur in the skin, which will blacken any silver article carried upon the person. Sulphur (commonly called brimstone) in any of its forms exerts a laxative influence upon the bowels, and has also a purifying action. One to two teargapoints may be taken by an adult before retiring.

Sulphurle Acid, or Oli of Vision, is used medicinally in a very dilute form as a tonic ingredient pressure and sometimes is the cause of causting processes and sometimes is the cause of causting abstances bridge death of the company of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the c

Sulphuric Ether, manufactured by the action of sulphuric acid upon alcohol, furnishes an anæsthetic preferred by manysto chloresorm. It is a stimulant and antiseptic, and sometimes may be found useful for hypodermic injection when collapse is threatened. For inhalation in angina pectoris, asthma, etc., it is

For infaltion in angina pectors, astima, sec., it is often a valuable agent.

Sulphurous Acid has one equivalent of oxygen less in its composition than sulphuric acid, and may be written down as a gas held in liquid solution. It forms sulphites, and is a very useful non-irritant antiseptic, particularly when employed for supaying sore threats. Produced in the combustion of sulphur it is largely utilised for the disinfection of apartments in which contarious disease has a curred.

contagious disease has occurred

Sunstroke. Loosen the attire and convey the
sufferer into a shady place, applying the coldete
water procurable, or icc if possible, to the head, which

keep in an elevated position.

seep in an elevated position.

Suppository is a method of administering medicine by the bowel, usually composed of cocoutter softened down by olive oil and medicated to suit the case. Morpha, beliadonna, santonia, hammelis, ichthyol, and other medicines, are thus introduced by suppository, and food is similarly administered when the stomach is in too irritant a condition to retain it. condition to retain it.

Suppression applies in medical phrasing to the cessation of the secretions of certain organs. Such as of perspiration or of the urine or of menstruation.

Generally speaking it indicates the stoppage of natural. riodic, or other evacuation

Suture, the junction of bones by their jagged margins, hence "sutured" and "sutural."

Swine Pox is one of the varieties of Chicken Pox, an infectious ailment, which see.

Byncope, or fainting, may be fatal when referable to serious affections of the heart or lungs. Attempts, when milder restorative measures fail, should be made to obtain a return to consciousness and functional

to obtain a return to consciousness and functional activity by the employment of arthficial respiration, the application of electrity, or the injection of ether or other quick-acting stimulants. In a simple faint, lay the person flat, with head low, and remove all clothing from neck and clest.

Bynowial Fluid is secreted by the joint membranes for the lubrication of the cartilages, and for facilitating the movements of the bones at their junction with each other. The synovia is formed of oleaginous and albuminous matter called in popular parlance "joint oil." When the synovial membrane is in any wise inflamed the fluid will often be excessively secreted, glving rise to painful swelling, as in 'housesecreted, giving rise to painful swellen be excessively secreted, giving rise to painful swelleng, as in 'house-maid's knee, 'and should the joint become organically diseased, and chronic inflammation be occasioned, there is apt to be a general degeneration of tissue, in which the syrondial manhama avail instance.

there is apt to be a general degeneration of tissue, in which the synovial membrane participates and helps to form such a permanent abnormality as is specially shown in the knee joint when white swelling appears.

Tamarind. The preserved pulp of the podsof the transind tree of the Orient yields an agreeable laxative acid substance, of great use in inflammatory and putrid disorders, for abating heat and thirst and correcting putrefaction. Tamarind why and tamarind tea are

both admirable anti-febrile drinks.

both admirable anti-febrile drinks.

Tannin is the astungent principle of oak-bark and galls. Tannic acid is employed medicinally to stay hemorrhage, to construct relaxed tissues, and to check excessive secretions. The preparations principally ssed are the tincture of galls, the tincture or compound powder of Kino, and the tincture or compound infusion of cater in. Tannin combined with glycerine may be painted upon the tonsils advantageously as an astringent in badly relaxed sore throat.

Tannaware in the intestines is the result of

painted upon the tonsils advantageously as an astringent in badly relaxed sore throat.

Tapeworm in the intestines is the result of absorption from infected animal food of the undescribed from the control of the undescribed from the human stomach with celery or salad. Once in the human intestine the tmy larva of the tapeworm proceeds to final development. Hatching out, it attaches sitself, by they hooks in its head, to the membrane of the alimentary canal, and grows Kownwards by budding, in detachable segments, each capable of the reproduction of their species, to a length as much sometimes as 20 feet. Naturally the presence of tape worm is irritant in the extreme, and perhaps the best way to get ridd of the pest is by treatment with naphthaline, which appears to act as a direct poison to it. Chloroform water has a paralysing effect upon the worm, causing it to release its hold on the membrane, when purgation will cast off the parasite with the evacuations. Until the minute head of the worm is detached and voided the cure is incomplete, for any number of new segments may be a fixed to the corn is detached and voided the cure is numbered to the corn is detached and voided the cure is numbered to the corn of the parasite with the evacuations. Until the minute head of the worm is detached and voided the cure is numbered to the corn of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations. The parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations of the parasite with the evacuations.

The parasite of the parasite with the evacuations of the parasite with the evacuations of the parasite potatoes at 11 a.m.

potatoes at 11 a.m.

Tapping is the surgical operation resorted to for the removal of fluid collected in quantity in any of the cavities, as of the pleura or abdomen in dropsy. It affords immenser relief. Tapping of a minor nature is surgically undertaken for the extraction of superabundant fluid from joints, extensive watery tumours, and leaves abscesses

and large abscesses.

and large abscesses.

Tapaxacum, the medical term for the dandelion, largely employed in pharmacy, chiefly as an adjunct to other drugs. In decoction, extract, and juice it forms an ingredient of pills and potions remedially used in indigestion due to liver torpidity.

Tartar Emetic, the tartrate of antimony and potash, a colourless crystalline salt, soluble in water, It has expectorant properties, and produces a powerfully depressing effect upon the heart's action.

Formerly it was a good deal used in febrile attacks, but is not now so much favoured medically. It is a deadly poison if faken in too large doese, and is employed enternally in continents as a counter-irritant where "white swelling "exists.

Tartario Acid, the characteristic acid of the grape, exists in various vegetable products, and enters into the composition of cooling effervescent drinks and some medicinal preparations, as the seidlitz powder: colouriess and without smell, it is peculiarly sharp and "tart" to the taste.

tart" to the taste,
Tartrata of Potash is a mild and efficient purgative, and when given with more powerful aperients, like senna, counteracts their griping properties by accelerating their action.

Tendons are the strong inelastic cellular bands by means of which the muscles are attached to the by means of which the muscles are attached to the bones. They are often expressively styled "leaders," and present the appearance of white glistening cords endowed with great strength. The Achilles tendon on the heel—capable of resisting a force equal to a thousand pound weight—the tendon of the diaphragm, and those of the groin, hands, and feet are the most noticeable. Most of the tendons are subject to sprain or upture, and in the latter case call for surgical treatment.

Terebene, a colourless volatile fluid, slightly resinous in smell, is procured from tripentine by the action of subpluric acid under heat. It is useful in bronchitis, five to ten drops on a piece of sugar, and

action of sulphurle acid under heat. It is useful in bronchitis, five to ten drops on a piece of sugar, and makes a soothing inhalation in inflammatory affections of the respiratory organs. Terebene possesses antiseptic properties, and has been employed in wound dressing. Terebinshina is the oil of turpentine, employed in the manufacture of certain soaps.

Tertian, occurring every third day, as tertian fever, tertian ague, etc.

Tetanus, the technica, term of lockjaw.

"Tetters," a common name for the skin aliment technically termed "herpen," and also applied to eczena as "dry" and "wet" tetter.

Therapeutic, curnive: hence the branch of medicure devoted to the treatment of disease is styled therapeutical.

therapeutics.

Thorax, the chest cavity and its bony framework.

The conical-shaped thorax, narrow at its summit and broad below, contains the heart and the large vessels therewith connected—the lungs and their bronchi, a portion of the windippe, the cesophagus, the thoracic duct, and many important vessels, nerves, and glands. It varies in circumference considerably according to the robustness of the constitution; but when properly developed in the adult, should average from 36 to developed in the adult, should average from 36 to 36 inches, and should be well rounded, neither too flat nor too sharp—bulging to the "pigeon-breasted" formation, which often follows a rickety childhood. The contracted thorax is characteristic of the consumptive tendency, whilst the deep and expansive chest is usually indicative of urgent respiratory power, though overprominence means emphysema of the lungs.

Tio-Doulouraux, a very painful neuralgic affection of the face and side of the head, paroxysmal in character, and generally most troulesome in the

character, and generally most troublesome in the temporal nerve. Phenacetal is recommended for the immediate relief of the most distressing symptoms, while quinine and nourishing dietary are likely to conquer the neuralgia. One peculiarity of it is that there is nothing to show the poignant pain, no swelling or redness. This differentiates it from alments of rheumatic origination. It will come and go with startling suddenness too; sometimes being induced by the slightest touch of the nerve or the most momentary exposure to draught, departing after inflicting excruciating torture abruptity. Emotional and highly-strung persons of indoor occupation are more subject to tic than others.

**Tinctures** are solutions of numerous druors in character, and generally most troublesome

Tinctures are solutions of numerous drugs in spirit specially suited for their infusion. Proof, recti-fied, or aromatic spirit of ether is employed in pharmacy neu, or aromatic spirit of ether is employed in pharmacy for the production of certant intertrees, not only for its solvent properties, but because of its anti-spasmodic virtue; and aromatic spirit of ammonia for its alkaline quality. Proof spirit is used when the active principles of the drug required remedially are soluble partly in water and partly in spirit; and rectified spirit is preferable when the drug is but sparingly soluble. All the more common medicinal tinctures are referred to in their alphabetical order, or in connection with the

to in their alphabetical order, or in connection with the aliments to which they are applicable.

Toe Nails, Care of. The toe nails require to be always clean, well trummed, and free from compression. Should any indication of abnormality, or of disease in the surrounding tissue appear, advice should be secured without delay and acted upon. (See Nails.)

Toes. The toes are hable to fracture, to affection

without delay and acted upon. (See Naila.)

Toas. The toes are hable to fracture, to affection
by painful corns and bunlons, and to gangrene in
senility, as elsewhere noticed. Spints are not necessary in toe injury, as bandaging the neighbouring toes
together will give the necessary support.

Tongase, the organ of speech and taste, is a ready
tell-tale of health or its converse. To the eye of
experience it reveals at a glance the state of the
digestive organs, and indicates any disturbance of the
general system. Should the tongue be swollen, with
accompanying throat catarrh, we have the sign of
stomach disorder; a dry tongue points to prostrate
strength; furless and red signalwes intestinal irritation;
heavily coated with white fur it announces a febrile
bodily state; relaxed it speaks with sympathetic
silence of rheumatic trouble; protruded and poming
sideways it indicates partial paralysis, and the situation
of the palised part; strawberry-like it assists in the
diagnosis of scarlet-fever. It is liable to many ailments
of its own, besides thus by its dryners, moisture, bulk, diagnosis of scarlet-lever. It is natic to many ammond of its own, besides thus by its dryness, niosture, bulk, movements, and the character of its coating affording the index to derangement elsewhere. Ulceration, the index to derangement eisewhere. Ulceration, inflamination, and cancer at times, assail the tongue, and demand remedial treatment of a proper character with a peremptoriness which will brook no denial. The exquisite sensibilities of touch and taste in the tongue are admirable aids to the direction of the all-important processes of mastication

Tonsile, two rounded-almond shaped glands reared TOTALIS, two rounded-amond snaped glands reared immediately behind the anterior pillars of the soft palate on either side of the throat, secreting a tenacious mucous fluid. These glands very often become enlarged in childhood, from various causes, and may be surgically reduced or even extirpated without detriment to the future development of the patient. In tonsilitis or inflamination of the tonsils the nuriate of calcium is

or inflamination of the tonsils the nuriate of calcium is a very valuable curative agent; but indications of this aliment should always receive early medical attention, as they frequently point to rheumatic trouble.

Tooth. A tooth consists of cement, dentine or ivory and dental pulp, the while covered with enamel. The exposed portion above the gum's is called the crown, that within the socket the root, and the narrow part intervening between the root and the corown the neck. See "Cutting of Teeth."

Toothache. "There never was yet philosopher that could endure the toothache patiently," Shakespeare made Leon saprently to say in "Much Ado About Nothing." But as toothache does not kill it is made light of by all saye the sufferer for the time being. Arising almost always from decay, it may be remedied by the removal of the troublesome tooth, or it can be by the romoval of the troublesome tooth, or it can be stayed by the dentit in the early stage of manufestation frequently by skilful stopping. Pan, too, may be assuaged by cleansing the cavity and introducing a pledget of wool saturated with dilute carbolic or cocame. Should neuralgia or digestive disorder bethe exciting cause of a bad toothache bout, as both often are, temporary rehef may be secured by overcoming the nerve trouble or setting the digestion right; but sooner or later toothache will take its subject to the detects if he or she la wice dentist if he or she be wise.

Torpor indicates injury to or disease of the nervous system, and unless the semi-comatose person can be roused by ordinary restoratives, a very grave condition is plainly existent. Such torpidity calls at once for the

doctor's assistance.

doctor's assistance.

Trachea is that part of the windpipe between the broachial tubes and the larynx or organ of voice, Liable to inflammatory aliments, is the portion of the air passage surgically opened in the operation of tracheotomy when suffocation threatens from diphtheria and certain other malignant throat affections. (See Broncheotomy.)

Trance is an abnormal condition which, without

being either sleep or swoon, involves suspension of the voluntary functions of the body, while therein the mind sees visions. One subject to trance is a "passive resister" to all attempts at rousing, but may often partake of and assimilate administered nourishment.

(See Catalepsy.)
Transfusion, the injection of the blood of one animal into another; sometimes the blood of a health-and vigorous subject is introduced into the vessels of another person in a condition of collapse as an extreme

torative resort.

Tramor, or involuntary shaking, is a symptom of nervous debilitation arising from undue excitement, exhaustion or actual disease. In fever it indicates great vital prostration, and is a very frequent accom-

great vial prostration, and is a very frequent accompaniment of paralysis and of mebriety.

Trichinicals is a disease—happily infrequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—frequent—f microscopic worms may become encapsuled in the nuscles and thus remain embedded, causing no further mischief. The disease requires the most urgent and skilful treatment

mischief. The disease requires the most urgent and skilful treatment

Trunk-Pack is sometime, resorted to in the hydropatinc treatment of febrile conditions of the abdomen and thorax, its object being to induce free perspiration coincident with a general reduction of the temperature, obtaining by the aid of saturated towels and many fannel swathings, all the beneficiate fefect of a hot bath, without any of its inconvenience and dangers to a person in an enfecteded and precarous state.

Truss, an instrument largely employed for the support of the part by sufferers from rupture. It should always be well made, well fitted in every particular of pad, spring and straps, whicher single, double, or bag shaped. (See Rupture and Hernial)

Trubercle is directly due to the presence within such parts of the system as are thereby affected of the organism or disease gernic known as the tubercle laciling. Tubercle attacks the lungs, certain glands, and the bones, and destroys their viality to a greater or less extent, usually spreading its ravages to the street of the body. It cannot fourns under leading general conditions, and may sometimes be counteractive and directly and the ones, and destroys their viality to a greater of the object in trained fourns under leading general conditions, and may sometimes be counteractive and directly and the ones and of the system by well as the street of the order of the system by well as the counteractive and the ones and of the system by well as the street of the order of the system by well as the counteractive and the order of the system by well as the counteractive and the order of the system by well as the surface of the system by well as the surface of the system by well as the surface of the system by well as the surface of the system by well as the surface of the system by well as the surface of the system by well as the surface of the system by the surface of the system of the system of the system of the system of the system of the system of the system of the system of the system and driven out of the system by vicorous medical treatment, correnced before the malignant bacilion have obtained too great a hold. The muriate of calcium alone or in combination with by ophosphites is very aniagomistic to the destructive bacillus which

is very antagonistic to the destructive bacilius which is the active occasioner of consumption.

Tumours are abdornal growths upon or within the body, varying in size and significance from a wart to a malignant cancer. Thus every adventious excresce, bold, abscess, wen, polypus, or cancer, is, strictly speaking, a tumour, but not every tumour is a cancer, nor every cancer malignant. Tumours usually require at some time or other surgical attention and they are often successfully removed by operative treatment from the breast, throat, abdomen, larynx, and even the brain, so that sufferers from tumour or their friends need not necessarily take a pessimistic view of their ailments. A tumour of any considerable size wherever situate of A tumour or any considerable size wherever situate of course requires expert examination, and will be dealt with according to its particular nature "Tumid" signifies enlarged or distended, and "tunefaction" is a longer name for a tumour or swelling.

Turkey Rhubarb. The term usually applied to the best kind of medicinal rhubarb in the market,

though it does not by any means alway emanate from the domain of the Sultan.

Turmeric, obtained from the root of the curcuma. an Oriental member of the ganger genus, forms an important ingredient in curry powder composition, is useful as a means of making chemical tests for alkalies, and finds limited employment in medicine as a stimulant. In India doctors use it sometimes for colic or cramp.

Turpentine is a spirit derived from the resinous

exudations of certain species of pine tree; and possesses many very valuable medicinal properties. Applied externally upon a hot fomentation it is a powerful counter-irritant to spasmodic and inflammatory affections of the abdominal viscer; and it is often remedial in similar treatment of rheumatic attacks of

remedial in similar treatment of rheumatic attacks of the muscles, nerves, and joints.

• Tympanum, the cavity of the middle internal ear is which lies the drum. (See Bar.)

Tymphoid, a synonym of enteric or gastric fever, is a condition of the system entailing very considerable must be and consequently always reconstruction.

is a condition of the system entailing very considerable peril to life, and consequently always properly regarded with gravity. (See Entario.)

Typhus Faver, the Black Plague and jail fever of old, is an infectious and pestilent malady arising from a vitiated atmosphere and general insanitary surroundings. Characterised by much pain, excitement, and delirium, it is therefore often spoken of as "brain fever" and "camp fever," Its characteristic eruption, resembling somewhat the spots of measles, and interspread with what look like fiscaltures is different. eruption, resembling somewhat the spots of measles, and interspersed with what look like fiea-bites, is different from the slightly raised rose-coloured and typical rash of typhold, which disappears on pressure with the finger. Typhus is variant again from typhold or enteric in that the latter's most malign influence is located in the bowel chiefly, whilst the stress of typhus is on the brain. One of its earthest manifestations is severe headache, of its earliest manifestations is severe headache, followed by delirium, sleeplessness, dreadful dream when fiftul slumber is obtainable, twitching of the muscles, and subsequent coma. Usually the bowless are confined, quite an opposite condition to that obtaining in typhoid. Again, typhus has no definite duration like typhoid, but generally begins to decline, should its course be favourable, in about fourteen days, though many cases have lasted much longer. On improvement taking place—upon the fifteenth day or thereafter, as the case may be—recovery is frequently sudden and most marked. The treatment requisite is the admission of as much pure air as possible to the apartment in which the sufferer is confined; most assiduous and watchful nursing, keeping the bowels open, the application of ice to the head in delirium stages, blistering at the back of the neck if necessary, support in the shape of beef-tea and milk, with port wine and brandy should the prostration prove excessive. Sometimes shape of beef-tea and milk, with port wine and brandy should the prostration prove excessive. Sometimes there is distressing cough and chest disturbance, which should find relief in the application of mustard plaster; but this belongs to the essential careful nursung, as does, the requisite judgment when to withhold or administer stimulants. Disinfectants must be used to obviate contagion all through.

obvaste contagion all through.

Ulear A sore on any soft part of the body, attended with pain, inflammation, and the duscharge of pus, and destructive, at least for the time being, of the tissues of tha skim or mucous membrane. An ulcerous condition means literally one in which there is an eating away of surface, and is due to the circumstance that the healing of a wound or sore of any kind has been prevented by the development of the germs of decomposition which have invaded the injured part. Ulcars therefore call for antisentic treatment, wherever decomposition which have invalled the injured part. Ulcers therefore call for antiseptic treatment, wherever situate, to destroy the vitality of the malign agencies at work within and connected with them. The socner and the more thoroughly this is undertaken the quicker they will case to grouble. They should be cleansed and supported, preserved from irritating friction, and dusted with lodoform or aristot to expedite their healing.

Ulna. One of the two bones of the forearm, between the elbow and wrist, sometimes styled the cubitus. It lies to the side of the little finger when the arm is held palm upwards.

Urnbillous. The navel, hence umbilical cord, the

Urea. A substance of nitrogenous production contained in the urinary secretions and excreted by the kidneys. When the diet is largely composed of animal food the urea is increased in amount, and diminished

food the urea is increased in amount, and diminished by vegetarian alimentation.

Ureaser. The tube or duct conveying the urinary fluid from the kidneys to the bladder. When, as it sometimes does, it becomes the seat of intense pain, through the presence or passing of renal calculi, the anodyne treatment recommended is hot fomentation

upon the textile medium of the application, and coincident subcutaneous injection of morphia.

Uxethra. The canal from the bladder by which
the ustnary secretions are voided. It is liable to
numerous distressing allments, which are frequently
"quacked," and mostly to the misery of their unfortunate subject. A competent practitioner should always
be consulted without delay in affections of the urethra
and any of its associated organs.

Uxia Acid. Sometimes called also lithic acid, a
urinary product, affording urates, and a source of the
calculi which occasion such serious bladder disturbance
on their accumulation within that organ.

on their accumulation within that organ.

on their accumulation within that organ.

Urina. This secretion of the kidneys conveys from
the body in a liquid form certain products of decomposition. It is, in health, of a light amber hue, of an
acid reaction, and very slightly in excess of the specific
gravity of pure water. An average adult excretes
a4,000 grains daily, in which are dissolved no to re
grains of unc acid, and 500 grains of urea; but the
amount of water passed varies according to season and
circumstance greatly. Thus the urine is lighter and
much more abundant in cold weather, when the pores
of the skin are exuding little moisture: but, in high amount or water passed varies according to season and circumstance greatly. Thus the urine is lighter and much more abundant in cold weather, when the pore of the skin are exuding little moisture; but, in high temperature, when there is heavy perspiration, urination is scant, highly coloured, thek, and comparatively frequent. When the season colorous than the common it indicates that decomposition has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going on; if it is has been going o

can persuade a magistrate to grant a certificate of exemption on conscientious grounds, generally a difficult matter, and the request is preferred in only a comparatively insignificant number of cases nowadays. (See Small Pox.)

Yalerian Root, very disagreeably odorous and nauseous to the taste, is used in infusion and tincture for the treatment as a stimulant and antispasmodic, of hysteria, epilepsy, St. Vitus's dance, and other nervous affections. affections

Yaricella, the medical name of Chicken Pox, regarded as a contagious disease, though in itself usually of a mild character, capable of being conveyed by infection to a second person, in whose case a more

by infection to a second person, in whose case a more virulent attack may be experienced.

**Varioses Vains**, the most frequent position ovaricose, or swollen and knotted veins is the calf of the leg, but they may appear elsewhere, and are not uncommon in the region of the anus, when they take the form of or occasion piles (which see). They may arise from age or debilitation, from over strain in standing, from wearing tight garters, and from pressure during pregnancy. When swelling and infaumation accompany varicosity, loss of bleeding and ulceration may ensue. Bandaging and the use of elastic stockings are recommended, and sometimes operative treatment may be necessary.

be necessary.

Yains. After the blood from the heart has passed in the course of the circulation all along the gradually attenuating arterial system, it is taken up by the

capillaries, which, becoming larger and larger, end in the veins. The veins, growing more and more expansive en route, join to the main large trunks or vessels through which the blood is conducted back again to the right side of the heart whence it first flowed, to be purified in the lungs for retransmission. The wins are supplied with valves opening forward only, and thus preventing any ebb of the blood. They are liable to distension when pressure is exerted by any abnormal cause upon any part nearer the heart than that affected, giving the condition of varicosity. (See Warleose Wains.)

Yegetarian Dietary, in the ordinary conditions of human life, would be insufficient alone to support the functions in vigorous activity and repair the regular wear and tear, "that is to say, a mixture of animal food is conductive to the well-being of mankind. On the other hand, vegetable aliment cannot be dispensed with without injurious consequences. Those vegetarians who refrain from animal food on account of life their humans repugnance to the destruction of life

trians who refrain from animal food on account of their humans expugnance to the destruction of life humans expugnance to the destruction of life.

Wantriole is the name given to various cavities of the body, as of the brain and the laryur, but more particularly to the chambers of the heart from which is distributed the blood, the left wentricle supplying the circulation to the body, whilst the right keeps the flow to the lungs. (See Hearts.)

Wartabra. This is the scientific term applied to the bones forming the spinal column. (See Bine.)

Wartigo is a symptom which should always be viewed with apprehension, as it very frequently indicates mischef within the internal ear or in the brain itself. (See Giddinass.)

itself. (See Giddiness.)

Yinegar is, in small quantities, good. It supplies a salutary and grateful stimulus to the stomach, correcting the fiatuency of vegetable food and the purrescency of animal aliment. But any excess of it is pernicious.

pernicious.

Witraous Humour. The pellucid licuid which
fills the bulk of the eyeball behind the crystalline lens.

Witrolo. Vitrolic sacid, or oil of vitrol, is known in
chemistry as sulphuric acid, which is employed medically in a guarded way. (See Sulphurio Acid.)

Wittus' Dance, St. (See Chorea and St.

chemistry as sulphuric acid, which is employed medically in a guarded way. (See Sulphuric Acid.)

**Yitus**s Dance, St. (See Chorea and St. Yitus*s Dance, St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and St. (See Chorea and See Chorea and St. (See Chorea and See Chorea and St. (See Chorea and St. (See Chorea and See Chorea and See Chorea and St. (See Chorea and See Chorea a

a glass tube, so as to protect the surrounding tissues, may be tried. Sometimes they resist treatment, and yet suddenly disappear spontaneously later on in a very puzzling fashion. If pedunculated, they may be snipped off by sharp scissors, or tied round tightly with strong silk, which often brings about their separation insensibly in a short period. Epsom salts taken twice or three times a day for a little while will check and generally cure the tendency in children to wartines!

of the hands.

Water in the Abdomen, technically termed Ascites (which see), or abdominal dropsy, is an accumulation of serum in the cavity, caused by obstruction to the flow of blood within the veins; such obstruction being the product of diseased conditions of the liver, iddneys, heart, or a consequence of infammation of the pertoneum. Tapping affords relief, great relief; but the water will again accumulate it the disease that occasions it continue, until the patient succumbs in the end to exhaustion. Medicines acting on the circulation and secretions may mend matters meanwhile, but continuous abdominal dropsy is difficult to overcome.

Water on the Brain. This is always a serious, and generally a fata, disease, its origination being tubercle, often inherited Frequently, too, it follows meningitis.

Washing. Till the appearance of the first or milk.

meningitis.

Wanning. Till the appearance of the first or milk teeth, infants should, wherever possible, be fed entirely by suckling; but after Nature's indication that the child can eat of itself, rusks and farinaceous food may begin to be given. The weaning should commence in the ninth or tenth month; artificial feeding being increased in frequency and quantity of administration as the breast is being gradually withdrawn. Not more than about three ounces of fluid should be fed to the child at any one time, lest its stomach be overloaded, and the digestive powers impaired in their early development. Give this at regular intervals, with nothing in between, and see that the baby's bowels are kept open. If the maternal breasts become painful upon wearing gentle saline aperients should be taken, and the mammary glands bathed with cologne water lotion.

Wors. These are small timours, sometimes geducular, sometimes egg-shaped, classic to, the touch

glands of the skin, and appear on the head, face, neck, and other parts, reaching any size between that of a boy's toy marble to an orange, or even larger. They are larmiless, and are best left alone if not so large as to occasion serious inconvenience or implicate other structures. Surgical treatment should aim at entire extirpation of the sac, but there is always some danger of eryspelas following the operation.

White Leg or Phiagmasia Dolaus's a painful condition arising sometimes after confinement through absorption of feetid matter. It is due to inflammation in the veins, producing coagulation and obstructing the return of the blood to the heart. Effusion in consequence takes place into the tissues, and a tense.

the return of the blood to the heart. Effusion in consequence takes place into the tissues, and a tense, swollen and glossy brightness of the skin ensues. There must be perfect rest in the recumbent posture, hot fomentation, and careful attention to the bowsis, with a simple and nutritious dietart, while five-gradient doses of the toddie of potassium three times daily may be administered with good effect.

Whita Swelling is the common term of a disease of the knee joint in which degeneration of the synovial membrane and cartiage has taken place as a consequence of prolonged inflammatory irritation. The limb must be placed in splints, perfect rest enjoined, and a dressing of mercurial ointment applied, the general constitutional health being built up as much

and a dressing of mercurial ointment applied, the general constitutional health being built up as much as possible coincidently. If the patient can be given a change to the seaside air all the better, for white 'swelling nearly always argues bodily debility.

Whitlow is a painful affection on the thumb or finger deep down in the tissue due to blood-poisoning. The bone, tendons, or strong muscles may be the seat of the suppurating trouble, and the pus often has such difficulty to find an outlet that it will remain until most offensive, and finally escape by the sides of the nail, at some distance from the actual ulceration. There

will be great pain, heat and throbbing. Poulticing, persistent and thorough, is requisite, to get the matter away, and lancing will very likely be necessary to clean out the wound completely. The general health should at the same time have medical attention.

Windpipe. The windpipe, except when swallowing always open at the top, is a rigid tube, distended by thick plates and rings of gristle or cartilage. It is a hemispherical tunnel, running from the larynx to the bifurcation of the bronchi, down the front part of the neck, dipping behind the breast bone into the chest. The back part of the tube is flattened and featble so as to yield to the passage of food and drink down the guilet or food pipe immediately behind. The windpipe or trachea is liable to inflammatory affections like the rest of the air-passages, which are soothed by the inhalation of steam, impregnated with anodyne and aniseptic substances, while hot fometations and poulticing externally will frequently afford relief. (See Trachina.)

Worm Bark. This is the bark of the cabbage-tree, used sometimes as a vermickle, but is not to be recommended because of its uncertain inaction, and is not altogether a safe thing to take.

Worms. Worms are very troublesome to some children, setting up irritation of the intestinal can hely infest, and working much constitutional muschief if not extirpated. The symptoms of their prevence are variable and withsted appetile, furtil breath, grinding of the tech, picking and lithiated appetile, furtil breath, grinding of the check, pains in the stomach, disordered bowels, and irritation of the rectum and anu, with passage of the parasites in evacuations. Round worm has resemblance, as far as shape goes, to the common garden worm; thread-worms are thin, short, and white, and milabit the

as shape goes, to the common garden worm; thread-worms are thin, short, and white, and inhabit the rectum or lower part of the large bowel. Tapeworms (which see) are enormously long and many jointed, and capable of reproducing detached segments until the head is dislodged. The latter often trouble the adult, and the treatment is described elsewhere. Calonic and the treatment is treatment elsewhere. Catohic mand scammony, santonine, and other vernicides, are employed for the expulsion of the round and threatment of the treatment of the bowls, a free purgation again following the ejected medicine. Injection of salt and water or injusion of quassia is used to kill threadworms.

Wounds. A clear cut or incised wound, as with a being brought together by means of strips of adhesive plaster of a mon-irritant nature, small intervals being left between the strips to permit of the escape of blood or serum. Antiseptics ought first to be applied in that case and in every other class of wounds, \$\overline{x}\$. dirt being thoroughly removed from the wound. Should the wound be long and deep, its edges may be stitched together nearly with white silk and a glover's needle all along, both needle and silk being stenlised before use by saturation in digite carbolic acid or some other antiseptic. Should any artery or other important vessels have been divided, they will require securing to stop and prevent further hemorrhage, pressure being exerted to allay bleeding meantime. Wherever extensive hemorrhage exists, surgical assistance should Wounds. A clear cut or incised wound, as with a being exerted to allay bleeding meantime. Wherever extensive hamorrhage exists, surgical assistance should at once be sought. A wound made by a blunt instrument or caused by a fall is generally contused and lacerated, presenting form, rough or jagged edges. Guashot wounds sometimes come within this caregory. Injuries of such a character require cleansing of cic.ted Injuries of such a character require cleansing of clotted blood and any dirt or foreign matter which may have been introduced. After treating with antiseptics, dressing with carbolic oil is most suitable usually in these lastances, being readily renewable. Amateur surgery should never be attempted in senous wounds wherever a qualified practitioner is available.

Writer's Cramp, a painful affection which sometimes attacks those who are condemned to labour

sometimes attacks those who are condemned to labour continually hard with the pen, sometimes styled "Scrivener's Palsy." It comes of over working one set of muscles. It has analogy to aliments suffered by compositors, pianiets, tillors, seamstresses, violinists, sugravers, and telegraph operators, and anses from a like cause. Sometimes electricity has been succes-fully employed for its relief.

• Wry Neck, in which the neck is twisted or turned estimated in the sterno-mastoid muscles which chiefly govern the movement of the sterno-mastoid muscles which chiefly govern the movement of the head from the side. Should a baby be born with this deformity it is remediable by surgical operation; said if the condition be the result of accidental injury or burning it will also admit of amelioration at the surgeon's hands. Wry neck due to paralysis of the muscle on one side will require special restorative treatment, and if rheumatism be the cause then the rheumatism must be combated and a liniment of a stimulant nature applied. Cotton wool and an olled wrapping should be placed to the part after each rubbing in of the liniment.

**Xerasias** a disease of the hair, which becomes dry · Wry Neck, in which the neck is twisted or turned

rubbing in of the liniment.

Keraals, a disease of the hair, which becomes dry and ceases to grow when affected therewith.

Keroderma, a morbid dryness of the skin, in its severestiform constituting fish-skin disease.

Kerodes, a kind of tumour, attended with dryness.

Karophthalmia, a dry red and litching alment of

the eyes.

Yam, the Dioscorea, on whose big tuberous roots John Chinaman and many natives of the East Indies live as much as we do upon potatoes, furnishes

Yawa, a cutaneous ailment, common in Africa, the West Indies, and tropical America, commencing with eruptious upon the face, under the armpits, and on the groin. It is contagious and proceeds to ulceration of a

you. It is contagous and proceeds to unceration over very untractable and weakening character.

Yellow Epot in the retula of the eye is the sensitive small central place in the direct line of vision, and is so called from the yellow tinge it assumes after death. When one looks at any object one moves the death. When one looks at any object one moves the eye about until the image of such object is reflected directly upon the yellow spot of each eye, thus giving single vision with two eyes.

Zinc. Zinc is a metal which does not usually occur

in Nature as such, but is obtained from its ores, chiefly the sulphuret and carbonate of zinc. It is much used medicinally in various ways, both in oxide, chloride, and sulphate. The oxide is a white tasteless powder, largely employed in ointment making; and this prepara-tion or the valerumate of zanc are given internally for epilepsy and St. Vitus's Dance. Sulphate of zinc, or white vitrol, looks very like Epsom salts. It is used a good deal in the making of eye lotious and also provides good dealm the making of eyelotions and also provides a very powerful and ingent emetic agent productive of immediate voniting in poisoning. The chloride of zinc is caustic and antiseptic, and is serviceable in the destruction of unhealthy and hialignant growths.

Zinc Lotion, as applied to burns and scalds for emollient and healing purposes, is made of singhate of zinc, one drachin, diluted in a pint of water. It arrests discharges from the wounded surface, and affords considerable relief.

Zinc Oittment. so valuable in eczenia and in

Zinc Oirtment, so valuable in eczema and in ulceration generally, is made by rubbing well together an nunce of the oxide of zinc and six ounces of pure lard, and adding one part of carbolic to twenty of the ointment. For use with children and in all ordinary

ointiment. For use with children and in all ordinary cases of watery discharge or suppuration after injury, this is one of the best of healing ointments.

Zizyphus. A shrub chiefly found in tropical regions, one of the varieties of which is supposed to be identical with the lotus, or lote tree of old Egyptian mythology. Zizyphus nummularn furmishes a fruit yielding an astringent essence used in India for bilious disorders, and the bark of Zizyphus jujuba is remedial in diarrhea. Other varieties of this plant are very largely used in medicine in different parts of the world.

world.

Zygoma, the cheek bone or arch, the arching process projecting from the temporal bone, to which are
attached the fleshy fibres of the temporal naucle; the
sutures uniting the two contiguous bony formations are

structs unting the two contiguous bony tormations are technically termed zygomatic.

Zymotic means infectious or contagious, implying reference to such diseases as may be incculated and are of an epidemic nature. Scarlet-fever, smallpox, chicken-pox, meaales, typhoid, mumps, diphtheria, eryspielas, and cholera are all zymotic, and to a considerable extent are resisted by sanitary precautions.



C. B. FRY.

Founder and Editor of "Fry's Magazine," "The Book of Cricket," &.

# Pears' Dictionary of Sports and Pastimes

# INTRODUCTION.

By C. B. FRY.

Founder and Editor of "Fry's Magazine."

It must be understood, of course, that in a compendium of the present nature there is no scope for the detailed technology and the elaborate rules of sports and pastimes, such as Cricket, Golf, and Lawn-tennis among outdoor subjects, or of Bridge, Chess, and Billiards among indoor subjects, which have developed into specialised cults. But the main characters of these are adequately described, and whoever wishes to pursue the study of a particular subject among them in minute detail will find a wide choice of books which may be consulted. The less popular and unspecialised sports and pastimes, however, are treated almost as completely in these pages as the foundation of the programs of the programs of the supposed that really the relative importance of (supposedly) more important; and it must be remembered that really the relative importance of each subject is a matter of fashion and individual choice and is not to be measured by their spectacular importance, which decides the amount of space devoted to them in the columns of the daily papers. A game may be a very good one for play and a very poor one for news; and publicity is no true criterion of the value of a game to those who actually play.

It seems to me that the second division of this Sports and Pastimes Section, which deals with

Indoor Games, is particularly useful, for these include subjects upon which information is continually in request, yet is generally unavailable in the form of a book of reference. Considering how much attention is given among us to outdoor pastimes, one is often surprised that indoor games have not been cultivated with a similar regard to the possibilities of this or that pursuit. To my mind there is no doubt that much good would come from the exercise of more ingenuity in the adaptation of some outdoor pastimes to indoor conditions; and I am inclined to agree with that enthusiastic reformer, Mr. Eustace Miles, in his opinion that, where at all possible, one room in the house (he says the largest and the best) should be a "Games Room," equipped with facilities for physical exercise, not only in the form of gymnastics and so-called physical culture, but in the form of suitable adaptations of games. There is a kind of cricket that can be played indoors, and a species of rackets and of fives. Perhaps not the least value of the following pages is that they may suggest to ingenious minds the possibility of such adaptations. But it should be remembered august of ingenitive minus the possibility of such adaptations. But it is found be remembered that the exercise of ingenitive in such a way produces a result much more interesting than the mere execution of detailed advice set forth in thought-saving detail.

mere execution of detailed advice set forth in thought-saving detail.

There is a peculiar fallacy connected with Sports and Pastimes which is worth a few words of refutation. It consists in assuming that such pursuits are entirely outside the sphere of intellectual intelligence, an assumption which carries with it the error of tacitly regarding an individual as one person in his work and as another in his play. It is true that games of various kinds require various physical powers and adaptabilities, but such valuable qualities as observation, judgment, and perseverance are the same in golf and in chess as they are in business organisation and in the study of astronomy. Pastimes that require for success qualities intellectual, moral, or physical which are in themselves valuable, help to give us these qualities, or to develop them in us for all the purposes of life whatsoever. A persevering character comes from activity with perseverance, and whether the activity occurs in the sphere of sport or of work is after all not very material. If you are a thoroughly persevering cricketer, you are more likely to be a persevering man of business than if you ceased trying in this game the moment any difficulty confronted you.

It may be of service, perhaps, to offer a word of advice on how to learn and attain proficiency in games of physical skill.

It is commonly remarked that such games cannot be learned from a book. But this is a half-truth and misleading. You can learn from a book how to do a thing; nothing but actual practice gives that co-ordination of eyes, brain, nerve, and muscle which constitutes actual skill. If a book gives that co-ordination of eyes, orath, herve, and muscle which constitutes actual skill. It about can only tell you how to do a thing, at shy rate you are then in a far better way towards learning to do it than you would be without that knowledge. A good book on a game is really as valuable as a good "coach," except that in consulting a book you have to supply your own brains, whereas in being taught by a "coach" you allow him to do most of the thinking. When it comes to it, no one ever really learns anything, except what he teaches himself, whether physically or intellectually. But a good book or a good "coach" can put you on the right road and point out safe short cuts.

But the great secret of mastering all problems, whether of physical or intellectual skill, is to divide up the complicated whole into its simple parts and master each part successively.

Take, for instance, a stroke at cricket. In this the movement of the feet, the poise of the body, the action of the arms in taking the bat back and again in moving it forward constitute a complicated whole. But if one first of all learns by separate practice the correct movement of the feet, then the correct poise of the body, and then the correct aum-action, the separate practice of each simple part soon enables one to master the apparently complicated stroke. It is a sound maxim that difficulties disappear the quicker the more they are divided up. One might say that

the first rule for acquiring skill is "Simple Division."

Then again, a point that is frequently missed in games of physical skill is that the correct mechanism of action can be learnt apart from the playing of the game itself. In a stroke in cricket there are two things, first the correct mechanism of action, and secondly the accurate timing of the ball. It is true that a good stroke requires both: the one is useless without the other in actual play. But that is no reason why the action should not be mastered first, by practice in a bedroom, at any rate to a certain extent, and then applied afterwards with a view to the acquirement of additional skill in timing. You can only learn to do a thing by doing it; but you can assist yourself much by first learning something that is subsidiary yet important

For instance, nothing is more valuable to a cricketer or a lawn-tennis player than the poise of body and quickness of foot that may best be acquired in dancing. Yet who would think of practising dancing in order to become a better batsman or lawn-tennis player? But whoever did so would be perfectly right.

With regard to Training and Fitness, these are long subjects, but they depend on two simple facts. First, there is nothing different between normal good health and athletic fitness except in so far as the heart is called upon to do heavier work in athletics than in ordinary everyday life. Secondly, specialised physical skill comes from specialised practice. In both cases training means gradual education: training is a process of building, not a plunge over a cliff. Any ill

effects that come from the playing of the more vigorous games are in nearly every case due to violent strain without previous gradual preparation. It is a matter of common sense.

Finally, it is worth noticing that in nearly all games of physical skill sheer strength counts not much: what does count is the strength that consists in quickness and in accurate mechanism of action. It is, therefore, wise in all set exercises of the physical culture type to avoid those that are slow and ponderous and calculated to promote power in lifting oxen or elephants, and to cultivate those that suggest rapidity, facility, and precision of movement. Quickness is of more all-round value in outdoor games than what is usually understood by the term strength.

# SECTION I. OUTDOOR SPORTS.

Amusements on Shipboard. In the old slow-sailing days of sea-travel, organised amusements were essential to beguile the tedum of a lengthy voyage; but present-day steamers get so quickly from port to port that beyond a game or two at deck-quoits (constructed from rope), or a match at deck-cricket, within a netted enclosure, little in the way of open-air pastune is called for to supplement the covers in the saloon and other enclosure, little in the way of open-air pastime is called for to supplement the concerts in the saloon and other social diversions of the floating hotel. For the children's entertainment, a swing is pretry certain to be fixed up, however; and generally a rope will dangle from some distance aloft to the upper deck, where with to play "swinging the monkey." A passenger grasps the lay wiswinging the monkey." A passenger grasps the rope with both feetand one hand, wielding a knotted hand-serchief in his free hand. He is the "monkey," and, as he swings, the other players "cob" him with their motted handkerchiefs, avoiding a bow from him as long as possible, for the player actuck must change places with the "monkey," "Cock-fighting," hands behind and feet secured, upon a tarpaulin, or astraddle across a spar, has attractions for some.

across a spar, has attractions for some.

Angling. Tersely, this sport may be defined as fishing with a rod and tackle, in pond, stream, or sea. The angling may be bottom-fishing, or with the balt

suspended at any distance botteen the bottom and the surface. Again, it may be fly-fishing, by casting the bait, artificial or natural, on the surface of the water, with that delicate manupulation which is the most artistic and delicate of all angling. The angler requires a suitable rod, line, hooks, and baits; in addition, it is destrable that he should be provided with reel, tackle-hook, landing-net, and creel or fishing basket. His rod may be stout and stiff for bottom-fishing, or light and flexible yet strong for fly-fishing; made in lengths, with adjustable joints. Bamboo and hickory are extensively employed in the making of the better rods; while good ash for the lower joints, and yew, lancewood, and whalebone for the lighter lengths are frequently utilised. The hooks must be of reliable steel, well made, and of appropriate size for the class of sport engaged m; and the line may be fashioned from fine hempen twine, specially spun to endure immersion, or from cotton, silk, horse-hair, animal or silkworm gut, separately or in combination. Floats of cork or quill (or both) are required, to regulate the position of the baited hook in the water, for all but fly-fishing, and this regulation must be assisted by weighting the line near the hooks with split shot es

other leaden attachment. Bait is chiefly either a favourite natural food of the fish angled for, or a artful simulation thereof. Great skill is necessary in casting and controlling the fine line—with its hook-concealing, cumningly-constructed, artificial fly—used in angling for trout, selmon, and other wary fish; and earther practice and care are called for in striking and securing the finny prize. Experience is requisite to success in the less acientific under-surface angling also; and the sport is one that has fascination for many.

success in the less scientific under-surface anguing also; and the sport is one that has fascination for many. See also See, Fishing.

Archery, as a sport, is a survival of the use, for marksmanship exercise, of a very ancient weapon of warfare and hunting. Used by laddes and gentlemen members of modern archery clubs, bows may have a strength represented and reckoned in pounds, variant from twenty to fifty, and for long distances, even up to sulty-four pound power; while match hows average about 5 feet long, the extreme length for gentlemen being 6 feet, and the minimum for ladies 5 feet 3 inches.

are nine, seven, five, three and one respectively, the object of the archer always being to secure the "possible" nine for a gold.

"possika" nine for a gold.

Aunt Bally is a game much favoured at country fairs, in which a wooden head is mounted on a pole, the fun of the thing being the endeavour to strike the nose of the figure with a short stick or club thrown form a given distance, and to break a clay pipe suck into its mouth, or to knock off something lightly on the flattened crown of the conical head.

Badminton (or Ladies' Rackets) is a sort of evicentific shuttlescok. blayed by two four persons with

Badminton (or Ladies' Rackets) is a sort of scientific shuttlecock, played by two or four persons with light-meshed rackets and loaded shuttlecocks over an upright net, 5 feet high in the middle, and 5 ft. 4 in. at the sides, stretched between courts marked in a man ner smilar to that for lawn tennis, except that the size differs, and the service lines are very unich nearer to the net than in the latter game. The "serve" is at Badminton diagonal from "server" to "striker out," and is made underhand, the racket in striking not

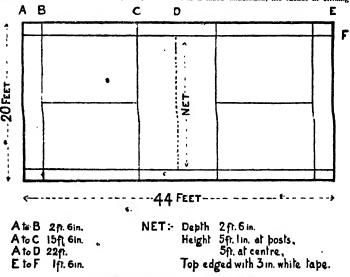


Diagram of Ground as marked out for Badminton.

The best are bagked, that is, made of two or more selected strips of suitable wood compressed and secured together to give strength combined with elasticity. The choicest strings are of strongly twisted hemp. Arrows of lime-wood, tipped and triple-feathered, says feet long, are used with heavy bows; lighter shafts of straight, seasoned deal will do for smaller bows. A brace, or shield of polished leather, hangs ready for use from the archer's bow arm; to the beit, on the right, is attached a pouch, or quiver, to carry the arrows: from the left side it Suspended a green worsted tassel for wiping the arrow-heads. Gloves, or finger-tips, complete the archer's outfit. Targets are constructed of twisted-circles of straw, sewn firmly with tarred string into flat disc shape, and covered with stout canvas. Four feet diameter is the normal measurement: the target stands on a light from tripod at the choser distance. The inner circle is coloured gold, and surrounded first by a band of red, then by one of blue, next by a black circlet, with the "outer" of winte. Usually the points scored for hits

being raised above elbow height. Subsequent strokes by "server" and "autagonat" must all be volleyed over the net and into the opposing court. If the opponent fails to strike and return a proper service, "server" scores, one; when "server" fails to send the shuttlecock over cleanly and within bounds, "striker" becomes "server," Points for game, with two or four players, are 15; £e. the player or pair of players who shall first have fifteen accs registered to their credit wins. Should the score become fourteen all, one side must then score two consecutive acces to win. Badminton may be played on a lawn or in any hall or indoor court.

Ball Games are multitudinous in number, and have been from time immemorial. The classic Greeks practised ball-play of some kind or other as a health preserver, daily, either by throwing and catching, or by striking the sphere away with some part of the person or an aiding implement. Succeeding generations have adopted and elaborated upon the exercises and pastimes of their foregoers, as the

paragraphs both in this and the "Indoor Cames" section show; balls of various sizes and weights, hellow as well as solid, being played with, ellong the ground, upon raised surfaces, and in the air.

Brailroom Ball. This is a game, very popular in France particularly, in which a large light air or gas-distended ball is tossed from hand to hand for as long as possible without allowing it to fall to the ground. Infated bladders were formerly used for the game; ow light rubber is employed.

Bandy was the name of an old game in which many trace the beginnings of both golf and hockey (g.w.). It involved the striking of a hard ball by bands of opposing players with bent clubs or bats, towards

of opposing players with bent clubs or bats, towards fixed and opposite goals. The term "bandy" comes from the Anglo-Saxon bendan—"to bend"; and the from the Anglo-Saxon bendan—"to bend"; and the wooden ball's fiful course from side to side gave rise to the expressive phrase "being bandled about."

**Barleybreak**, an old English running, catching

Barleybreak, an old English rummng, catching and tugging game, now quite out of fashion.

Baseball. A glorified and systematised development of the old English game of "Rounders" "-is now recognised in the United States of America as distinctively national pastime. It is played—speciacularly by highly-paid professional experts as well as by skilled amateurs—with a hard, leather-covered ball of tightly twisted yarn, over a rubber core, and a rounded wooden but or club not exceeding 42 inches long or 14 inches in diameter. Nime men constitute each side; one team takes the field, and the other goes in to bat. The pitcher of the out-side delivers the ball to the selected striler of the in side, who endeavours to Int it selected striller of the in side, who endeavours to lit it away to clude the fielders, and run round the bases away to clude the fielders, and run round the bases home without being caught or put out by any fieldsman, when one run is scored; should he nuss three balls from the pitcher and the third ball be caught by the catcher, the striker is out. Upon three men being put out by catching or touching with the hall when off the lases, the fielding side go in; and after nine innings have been completed the side having registered most runs is declared to have won. The catcher stands behind the striker, to catch and throw to the basement in the field the balls nitched to the striker; and all the

behind the striker, to catch and throw to the basemen in the field the balls pitched to the striker; and all the fielding side need to be good throwers, swift runners and sure at a catch. The game is governed by very elaborate rules, and the umpire's position is a very responsible one. Baseball is played upon level expanses of turf, not less than 500 feet by 350 feet.

Basket Ball is a game played between sides either sex, either man open field or playground, or in a court 80 feet by 40 feet. The teams, five a side, seek to throw a round ball, resembling that used in Association football, into the goal-basket defended by their rivals; which is an open-work bag-net, a little larger than the ball, suspended from an iron ring fixed of feet high, and backed by a 6 feet square screen. No player must carry the ball, or hold it for longer than three seconds, or a foul is given to the other side.

No player must carry the ball, or hold it for longer than three seconds, or a foul is given to the other side, and a free throw at goal from 15 yards' distance ensues. Penalty goals count one, those got in legitimate play two points.

Battledore and Shuttledook was a diversion of "grown-ups" as well as juveniles in the early days of the 17th century in England and Scotland, and princes played it. Wooden lattledores and very simple shuttlecocks preceded the parchiment-headed "drums" and leather-covered, balanced bottomed cocks with gaily panted feathers which gained a later vogue.

Beatles denotes the hunting of hares or rabbits by the aid of specially-bred dogs, named similarly to the

the aid of specially-bred dogs, named similarly to the sport they furnish. They are followed on foot, and afford excellent exercise "to the field." Our public schools and the juniors at the 'Varsilies have kept up

schools and the juniors at the 'Varsities have kept up or patronised beagies extensively.

Boating as a pastme has considerable charm, especially in the summer time, either on lake, river, or sea. To render it a safe recreatior, reasonable care in embarkation and disembarkation, as well as changing place whilst on board, are requisite in the case of frait craft; and those responsible should know how to handle both the boat and the means of propulsion, whether rowing or sailing. As to the management of racing boats, etc., see articles on Canoeing, Rowing, Sailing, Sculling, and Yachting.

Boomerang, Throwing the. This is an art or diversion in which the Australian abordinals were adept. The Boomerang is a curved piece of hard wood or stick, flat on one side and rounded on the other; or stick, fat on one side and rounded on the other; about 3 feet long, not more than three-quarters of an inch thick, and, say, a inches wide. The caster throws it upward with a sickle-like sweep, imparting rotators velocity as it leaves the hand, when, after ascending to a great height in the air, the missile returns elliptically to near its starting point. The boomerang can also be manipulated so as to reach the ground in a downward direction at a surprisingly long distance from the cast, rebounding with ricochet motion, and striking the object aimed at by the skilful thrower.

Bowiling, and from an American variation of the pastime, flourishles yet as an outdoor game in many parts of England. Therein what is sought to achieve is the bowting of a swall, lound heavy ball accurately, for a

pastime, flourishes yet as an outdoor game in many parts of England. Therem what is songht to achieve is the bowling of a swall, round heavy ball accurately, for a given distance, within prescribed limits as to direction, in a certain number of rolls or throws, according to prearrangement. Two antagonists, or a greater number, in sides, enter the contest, and the weight of the halls employed varies from three pounds downwards to the volume.

wards to a few ounce

wards to a two unces.

Bowling (American). The bowling game most favoured in the United Statos is an adaptation of the old English alley pastime; and is played either in a prepared outdoor alley, or indoor court, with weighty bowls and pins, partaking, save in the shape of the missile, somewhat in the nature of skittles. Complications of an elaborate character laws been introduced

into the game, which has numerous local variations.

Bowls—Lawn Bowling, or Bowling on the Bowls—Lawn Bowling, or Bowling on the green, is a game engaged in upon smoothly-shaven turf by several single players, with heavy "blassed" bowls of henum vite or other solid wood. Often there are "doubles" at the game, partners taking turn in bowling at the white "pack" previously trundled to a judicious distance across the green, which is usually slightly conver in more than one direction. To object of the bowler is to bring list bowl to a standardit touching the "jack," or as nearly thereto as he can and, incidentally, if ueed he, to remove the previously-bowled ball of an opponent to a greater distance from a winning position, or one sent down by his own partner nearer in. Points towards game are scored by the bowlers of the bowls lying nearest the "Jack," when an "end" is completed; whereupon the "jack" is sent across the green—not more than twenty-five yards in across the green—not more than twenty-five yards in Scotland, and usually less in England; and another end" is protected with, until the agreed upon mumber of points to win the rink—twenty-one in most Linglish club—are registered to the credit of one player or set of partners.

playor or set of partners.

Brasses are smaller editions of quoits, thrown from a shofter distance than the heavier rings of flattened steel used in the more general game. The object of the competing throwers is to obtain a "ringer," flatside down, over the iron pin aimed at, which is generally fixed perpendicularly in a quadrangular frame or box of noist clay. "Ringers," or the incarest approximation thereto, score towards the agreed-upon number to make "game"; and two, four, or more

number to make "game"; and two four, or more (rarely) may participate.

Caher. Tossing the. This is a difficult feat performed at the "Highland games" or "gatherings" of Braemar or elsewhere. A stalwart young pine or fr, stripped of its branches, has to be reared, balanced, fir, stripped of its branches, has to be reared, balanced, and flung as far off as possable, lighting fairly on its thicker end, and falling away from the "tosser." A run, with the caber kept perpendicular, is pormitted, within bounds, to obtain impetus, and "knack," in addition to preponderating physical force, is requisite in the athlete who would excel.

Canoning, when one has mastered the art of paddling, is pleasant on placed waters; but it lacks the padding, is pleasant oil process and in that the arms are brought across the body, tending to continuous chest contraction, in proper paddle-manipulation.

Less exertion, however is called for in canoeing than

in oarsmanship

Catching the Third is a merry outdoor game in which both sexes may engage. A double row or ring

of participants is formed on the greensward, the couples standing a pace apart in pairs. A would-be catcher stands out in front of the line, or in the middle of the ring, and the foremost of one couple middle of the ring, and the foremost of one couple wacates his or her place, running to secure a stand before some other pair, the back person of which must endeavour to gain a place in front of the one left alone. The "catcher" may capture any "third" player of a group where two only should be, or any one on the move; when the victim has to become the prisoner and in his or her turn seek to "catch the third."

and in his or her turn seek to "catch the third."

Coursing his come to be the accepted appellation
of the "sport" of racing after, over chosen or
prepared ground, and killing hares with running-dogs,
chiefy of the greyhound variety. It is intrinsically
inferior to actual hare-hunting with harners, but
coursing meetings bring about large assemblies in
some places, and they have the advantage over foxhunting and horse-racing of not requiring equestrian
equipment. Greyhounds, in coursing, are guided by
sight, not scent; and some "crack" dogs—winners of
such trophies as the Waterloo Cup—realise large sums
of money.

of money.

Grickies of the spectacular sort, in which the picked players—professional and anateur—of the English counties, contend together, or against has risen to a great height of English Counties, contend together; or sgalast Colonial combinations, has risen to a great height of popular favour; but the game continues to furnish healthful pastume to myrads of young men and youths less conspicuously banded together in local clubs. It is played under claborate rules, approved by the Marylebone Cricket Club, the acknowledged governing body of the game, between teams consisting usually of eleven players aside, upon smoothly-mown and well-rolled turf putches. The wickets are two sets of three stumps, eight inches wide when in position, topped by two bails laid in grooves, so as to meet end to end on the centre stump, and not to project more than half an inch above the stumps, standing perpendicularly twenty-seven inches out of not to project more than half an inci above the stumps, standing perpendicularly twenty-seven inches out of the ground. These are fixed opposite and parallel at a distance of twenty-two yards. The side winning the toss has first choice of innings; and each of its eleven batsmen—two at once defending, in alternate over should run-making not have changed their position), go to the crease, wielding a bat not wider than Lound and a quarter inches in the blade, nor longer than thirty eight inches, handle and all. The bat blade is generally of choice willow, its handle of cane, often having strips of rubber compressed under its tight, even wrapping of twine to give "spring tess." The opposing eleven are placed in the field in positions to prevent the scoring of runs from strokes of the bat or to secure catches. The ball used in matches is beautifully made sphere, leather-covered and filled with compressed core or similar suitable hard material; it must not weigh less than five and a half ounces, nor more than five and three-quarter ounces, and must have a circumference between nine and nine and a have a circumference between nine and nine and a nave a circumierence between nine and nine and a quarter inches. A bowler bowls an over of six suc-cessive balls to the opposite wicket; then another bowler, at the other end, does the same. The object of attack is to his at hreak the batsman's wicket with the ball by removing one or both balls, in despite of his attempts to defend it, or to cause him to strike the delivered ball into the hands of one of the fieldsman beartempts to doried it, or to cause him to struke the delivered ball into the hands of one of the fields are here it shall have reached the ground, in either of which cases the striker's innugs is ended. He must keep his foot within prescribed ground whilst the ball is in play, or he may be "stumped" out by the whicket-keeper or "rum out" by any of the opposing fieldsmen. For every time the striking batsman, after making his stroke, is enabled to run from wicket to wroket before the ball is returned by a fieldsman to the bowler, or wicket-keeper, he scores one run for himself and towards the total of his side. Usually four runs are allowed, without any running, for a ball reaching the boundary, and generally six for one driven clean out of the ground. When ten wickets have fallen the innings is over, and the side which has been fielding goes in to bat. In single day matches the issue may be decided upon the result of an innings completed on either side; but in the important games of lengthier duration, two annings by each team are played, unless victory be

previously achieved by one of the sides having registered more runs than the opposing eleven shall have accured in its completed double effort. Any of the atfacking side may bowl either fast, medium or slow, left or right hand, and change from end to end to so, providing always that no bowler send down two overs consecutively in any one inniggs. Should no definite result be arrived at, through climatic interruptions of play, or the inability of one side to dismiss their rivals before the winning advantage shall have been secured, "a drawn game" is the result. Umpires, one at each end, preside over every properly-played match, and their decisions must be obeyed in all points.

points.

Cricket Ball, Throwing the. As an exercise as well as a means of acquiring proficiency in fielding throwing the cricket ball is commendable. It is a good deal practised at the schools and the Universities. The longest recorded "throw" is that of R. Percival, on the Durham Sands racecourse, in 1884, over a measured distance of 140 yards and 2 feet "King Billy," an aboriginal professional, had thrown a cricket ball in Queensland 140 yards a dozen years earlier.

Croquet is a favourite lawn came, especially with

pail in Queensiand 140 yards a dozen years earlier.

Croquae' is a favourite lawn game, especially with ladies. It is played on level grass with wooden balls, light hammer-headed wooden mallets, and a series of iron hoops, six or more in number, arranged in a plan on the turf, the space occupied being ten square yards or more. Rules for playing croquet vary, as do the number of persons taking part in the game; and settings are indicated in the regulations supplied by the manufacturers of the requisitions.

facturers of the requisites.

Cross-Country Running, where courses can be secured, is a capital form of pedestrian exercise for the active; and affords good and healthful practice for many athletic games requiring "condition" and

Curling is a winter game said to have been intro-CUFIINg is a winter game said to have been intro-duced into Scotland by Flemish immigrants about the beginning of the sixteenth century. Therein con-tending parties slide heavy, hard, smooth, round stones about nine inches in diameter, weighing forty pounds or more, with an iron handle at the top, and hattened at the bottom, over well-swept ice towards a nattened at the bottom, over well-swept ice towards a tee or mark, forty-two yards, or some other agreed-upon distance, from the hurling tee. The objects of the player are to propel his cufling-stone fairly to a lay as near to the mark as possible, to guard that of his partner which has been well-laid already, or to strike away that of an antagonist. The number of "points" to make game are a matter of mutual

Exrangement.

Gyelling, on a machine suited in size and fitment to the rider, and properly geared to obviate undue exertiou, is a very good medium for the promotion of recreative pastime in either sex. The safety bicycle, well built, can be controlled with a little persistent practice; after that let moderation be the rider's guide. Time should be allowed, in the country "spin," to take in the beauties of the landscape, and no over-fatiguing journey be essayed. Also let the cyclest walk his or her machine up any stiff hill; many girl riders insensibly inflict injury upon themselves by disdaining this procaution. It is a great mistake to turn invigorating exercise into an exacting task. The warning applies to all pastimes involving sustained exertion. Competitive cycling should for safety and the public convenience be confined to the track.

Dab and Trigger is a ball game indusjed in in some localities. The requisites are a wedge-ended little block of wood, slightly cupped on the upper surface towards the extremity opposite to that undercut, to hold in position a hard and roughened bail of tough wood, about one and three-quarters of an inch in this, smartly "dabs" the trieger end of the block in this, smartly "dabs" the trieger end of the block in this, smartly "dabs" the trieger end of the block in this, smartly "dabs" the trieger end of the block in this as long a distance as possible.

Den-Estalking is a sport of the rich, involving the up-keep of the forest land which yearly becomes more and more limited. Only a few fastnesses affording sufficient cover for the "antlered monarch of the glean" Cycling, on a machine suited in size and fitment to

remain in Britain. Civilisation circumscribes "blood sports" by largely extinguishing the avocation of the hunter, and incidentally rendering communities habitually humans. Latter-day stremosis in the great game of life has made the chase unfashionable with the million, and to hunt or stalk the stag you must now first preserve him, a costly process.

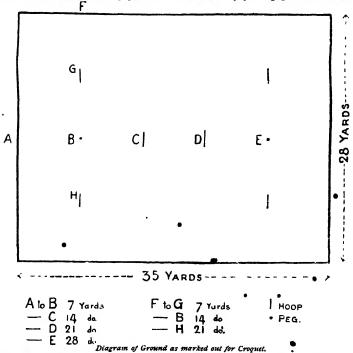
Diabolo. This game is played with two sticks, each about two feet long, with each end of a piece of cord about four feet long joined to one end of both sticks. The "diabolo" consists of a piece of wood or other suitable substance in the form of an egg-boiler-or two peg-tops joined at the pegs. The player holds one

should never be practised, even by an adept, except

should never be practised, even by an adopt, except in known waters.

Egg and Spoon Racing is a simple diversion where children and people of mixed ages are to be amused. Steadiness of hand, ficetness of foot, and some practice will make a winner. A flattish wooden spoon, an egg, and any number of entrants are wanted for the game; the object being to cover the greatest distance in the quickest time over the grass, with the egg maintained in position at arm's length.

Egg Hat is the throwing of a ball—a bouncing ball preferably—into several hats in succession from a given distance; the player bringing the ball to rest in the



stick in each hand, suspending the diabolo on the string, and by holding one end of the string higher than the other, the diabolo is hade to am down the string, and to and for by alternate elevations of each hand. By repeating this action several times rapidly, the diabolo gets on to a quick spinning motion, when the string is suddenly tightened by bringing the ends of the strick wide apart, which has the effect of making the diabolo spring into the air. As it descend: it is caught on the tightened cord, when the spinning process is again gone through, and the diabolo again thrown into the air. The object is to see how quickly and how high the diabolo can be thrown and caught without letting it drop to the ground.

Diving is a part of the swimmer's accomplishment and one that is very desirable. It is a branch of the natatorial art which must be mastered gradually, and

gentest number of hats with the smallest number of clean casts winning the contest.

Falconry was a favourite field-sport in Britain in the Middle Ages, as elsewhere, by the nobility and landed gentry, who made it a serious business of their lives; but what few herons there are left in these sites as well as other fowl whose progenitors were the prey of the trained hawk, and the sport of its owners in former times—now enjoy immunity from organised pursuit, and falcon-hoods, jesses, bells, and tassels, belong to our past history.

pursuit, and inton-noots, jesses, bells, and tassels, belong to our past history.

Feeder was a ball-game, very much akin to rounders, engaged in by three players. The feeder with a light ball "fed" the other two in succession as batsmen until he could put one of them out by a catch in the air or by hitting him with the ball whilst running between bases after a stroke. The feeder took his stand centrally between the bases, and if the striker could get round before the third player left the home base to run, he took strike again. Meanwhile he was safe, when on either of the three out bases, so long as he could elude the touch of the ball from the feeder. If the latter recovered the striken ball before either of the batsmen got home, and therewith touched the home base, both were out The striker first "outed" took begs, both were out 'The striker first "outed" took the feeder's place, and when an agreed upon number of innings had been played, he who had run round the bases oftenmost from strokes of his own was proclaimed the winner. The ball was pitched and struck in the air, a very light but or rounded stick being employed. Field Hockey. (See Hockey.)

Field Sports. (See separate entries in this sec-

side first scoring fifteen wins. Fives is an ancient game, called in Scotiand cage or caltch-ball, and in France palm-play. A fives-court is provided at many schools. *Light bats are used in some places wherewith to stelke the ball, in a variation of the game, *Football, Association.* This development of the old English and Scottish game of ball is played between two sides of eleven men each, on a quadrangular field, not less (in International matches) than one hundred and ten yards or more than one hundred and ten yards or more than one hundred and twenty yards long, and between seventy and eighty yards wide. *Parallel lines, marked out by flags at the sides of the playing area, are "the touch "lines; and those at the entits, at right angles to the former, are the goal-lines. In the centre of these, facing each

GOAL POSTS Byands apart, Gross Bar Bfeet from ground PENALTY KICH MARK . Opposite centre of Goal, 12 yards from GOAL LINE. CORNERS - Flog with staff not less than Sfeet high KICK-OFF CIRCLE - Centre of Ground, radius 10 yards

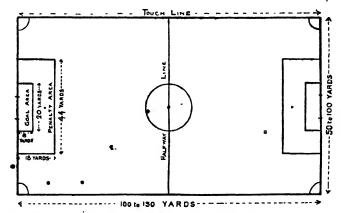


Diagram of Ground as marked out for Association Football.

tion: Archery, Erloket, Croquet, Football, Hockey, La Crosse, Polo, Shooting, etc., Flahing. (See Angling, and Sea Flahing.)
Fives, played in an out-door court, is a species of hand-tennis, in which a soft ball, covered with thus leather, is struck uganst a wall by the palms of the hands of the players, usually two or four aside. The leader of the serving-side bounces the ball on the ground and strikes it, on the bound, at the wall, anywhere above a horizontal line marked at a height of three feet, to rebound over a ground line parallel with and six feet from the wall. The players, ranged alternately outside the ground line, have to strike back the ball on the further rebound, either before it reaches the ground or at the first bounce. Should one of the serving-side fail to strike the ball back to the back the ball on the further rebound, esther before it reaches the ground or at the first bounce. Should one of the serving-side fail to strike the ball back to the wall properly, or strike it so hard that it bounces out of bounds, the innings of the side is lost. If one of the out-side should miss or strike the ball ineffectively, a point is counted to the score of the serving-side. The

other, are fixed the goals, consisting of two upright posts eight yards apart, with a cross-bar eight feet from the ground, and having a not loosely placed at the back to catch the ball and ensure its having gone between the posts. A half-way line is drawn from side to side of the field, parallel to and equidistant from the goal lines. The ball, a round leather-covered bladder to side of the field, sarallel to and equidistant from the goal lines. The ball, a round leather-covered bladder (which must, in unportant matches, measure between twenty-seven and twenty-cight inclusin circumference) is kicked off from the centre at the commencement of the game. It is for each side to prevent the opposing eleven from getting the ball into the net, between the posts and under the cross-bar of the goal it has to defend; and, what is even more important, to strive to get it by pass or direct kicking, or heading, into the antagonists' goal. In all this strenuous endeavour the ball must not be intentionally handled by any of the players except the goal-keepers, in catching and clearing from the goal under their custody. Even then players may not carry the ball more than three paces 865

without relinquishing it. No player is permitted to hold or push an opponent with his hands, and tripping, jumping at or kicking an antagonist are alike illegal, and a free kick is awarded against the offenders from the spot where the offence took place. When forty-five minutes' play is completed, the referee blows his whistle, and the game stops, "halt-time" havung been reached. After five minutes' interval the game recommences, the sides changing ends; and the eleven having registered most goals, in both "halves," after the full ninety minutes' play, is the winner; should there be no score on either side or an equal number be obtained, the game is "a draw." When a goal is scored, the side at whose expense it has been made kicks off anew from the centre. There are explicit without relinquishing it. No player is permitted to

pionships, and International matches attract thousands

of eager spectators.
Football, Rugby. Rugby tootball, in which the ball is of oval shape, and which is played fifteen aside, differs mainly from "Soccer," in the participants being permitted to take up the ball whenever it is bounding permitted to take up the ball whenever it is bounding or rolling, and run with it towards the goal. The player, carrying or holding the ball, must, however, immediately on being tackled or held by an opponent, throw the ball towards his own goal to one of his own team to continue the run, and a goal can only be obtained by kicking the ball from the field of play direct over the crossbar between the side posts of the goal. In the Rugby Union game the uprights of the goal are placed 18 feet 6 melies apart, and must be made

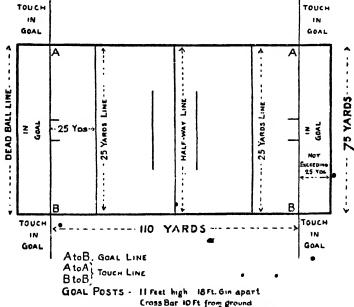


Diagram of Ground as marked out for Rugby Football.

rules governing the procedure when the ball has been kicked into touch or over the goal-line, in both of which cases it is out of play whether the line he crossed in the air or on the ground, and also as to the permissible positions of the players dyring the game, with regard to the positions occupied at any given juncture by members of their own and the opposing teams. Fenalties are imposed for "off-side" and other infringements, and these the referee, who is assisted by two linesmen, has to enforce. Usually an eleven of "Soccer" players consists of five forwards (outside right, menter, inside left, and outside left); three half-backs (right-half, centro-half, and left-half); two full backs (right-half, centro-half, and left-half); two full backs (right-back and left-hack), and one goal-keeper, all chosen for their special proven ability in the positions to which they are allocated; and the men are expected to work in harmonious combination. Association football, which is sessonable in England from September till the end of April, is a very fascinating winter game; and the Cup Ties, League Cham-

It feet in height, the crossbar being fixed to feet from, and parallel with, the ground. The ball weighs (in emportant natches) between 13 ounces and 145 ounces, with a circumference lengthwise of between 50 and 31 inches, and a widthgairth of trom 255 inches to 20 inches, while the field of play must approximate as closely as possible to 100 yards long and 75 yards in breadth. The "scrum," or scrummage, is an important feature of present day Rugby footiall, and is caused as the result of 4 foul against a player or other reason. It is formed by the eight "forwards" on each side facing each other with lowered heads. Three in the front rank, two in the second rank, and Three in the front rank, two in the second rank, and again three in the last rank. The ball is then thrown in by the "half-back" between the two front ranks; in by the "nati-pack between the troop of the opposing forwards strive for the possession of the ball by "hooking" it with their feet, i.e., driving it to the man behind (this applies only when ouiside the home 2s), who "works" the "scrum" for further kicking and open play. In the game, as played under

the Righy Union rules, a try (gained by a player who first puts his hand on the ball on the ground in his opponents' in-goal) counts three points for his side towards gaine; a penalty goal (there are numerous penalties—for which free-kicks are given—arking from infringements of the governing laws) equals three politis; a goal from a try reckons five points (in which case the try from which it resulted does not count); and any other goal is worth four points. The side with most points, thus calculated, at the close, wins the game. In the Northern Umon game the value of points is differently assessed. In the United States, football is played by eleven men aside, kicking and running with the ball being both legal, and the scoring is for goal (kicked over the ro feet high crossbar and between the uprights) from the field of play five points; for touch-down (when the ball is carried and touched-down to the ground behind the goal line), five points; for a safety-touch (when an opponent has been compelled to carry the ball and touch-down has been compelled to carry the ball and touch-down has been compelled to carry the ball and touch-down has been contelled to carry the ball and touch-down has been concelled to carry the ball and touch-down has been concelled to carry the ball and touch-down has been concelled to carry the ball and touch-down has pend marked out with white hiers five yards apart, as the ball must be surrendered if not advanced that distance in three running attempts on yards apart, as the ball must be surrendered if not advanced that distance in three running attempts on advanced that distance in three running attempts on the part of members of an American side. In the United States the regulations for the great football matches are most intracte. All these developments of what is classed as Rugby football have grown out of the "Big Side" game so tavoured last century by the boys of the great English Midland School (which can beaff be troughlack in a Continguate origination). These they for the great ringing minimal account which can tested be traced back to a Continental origination). They comprise various combinations of football, handball, 'tackling' and pushing in union, calling for the exercise of much physical strength, agility, courage, and scientific resourcefulness of movement, both as regards the individual efforts of the players and the organised and harmonous action of wings, sections, and the entire opposing teams.

and the entire opposing reams.

Fox-hunting 's the most extensively patronised survival of the chase, as a "blood sport," so far as England is concerned. The quarry has to be carefully preserved in well-guarded coverts, and the hunting (seasonable from the beginning of October to Lady Dear and hunting the American to the first Munday in Day; cub hunting, August 1st to the first Monday in November; requires the upkeep of a pack of hounds for each district, a huntinian, whippers-in, kennel-keepers, and helps; as well as suitable horses, bred for fence and water-jumping and running across country, for the masters of hounds and the lathes and gentlemen of the hunt in each allotted distriction ride, the sport is picture-gue, exhibitating, and accompanied with its space of danger, especially to hard and reckless riders; but it is regarded as characteristically English and emmently aristocratic,

English and eminently ansiocratic, foll, some say, is a gaine of the legared or middle age; but it is indulged in with increasing zest by persons frespective of age, sex, or rank. The pleasure of a three-inle wilk over well-keja, breenly-situated "links," and the fascinations of driving, putting, and all else belonging to the golf game—which that great vogue in Scotland before its bold upon England became extensive—possesses a charm for many statesmen and persons ordinarily engaged in exacting professional pursuits. Golf is played with quite a number of inulements nowadows, carned by an attendants fessional pursuits. Golf is played with quite a number of implements nowadays, carned by an attendant caddie. These are club-headed sticks or irons, called drivers, bulgers, niblicks, patters, spoons, mashies, borasses, cleeks, baffies, lofters, etc., and small, hard, white resilient balls, made of gutta-percha, or with special rubber cores. On large downs, commons, or specially preserved courses, often by the cashir-re, the "links" being elaborately laid out with interposed impediments, natural or adapted, in the way of hollows, banks, mounds, and even trees. The object is to impedinents, natural or adapted, in the way if hollows, banks, mounds, and even trees. The object is to strike or "put"—in the fewest possible strokes—the ball, with one or other of the clubs, into each of eighteen (in a full course) small holes, about 4 inches in diameter, cut in the turf on specially prepared greens. The holes may be as close as 100 yards from the "Tee" or any thing between 300 and 600 yards off, and their position is usually marked by flags. At the start for each ordinary hole the ball is "teed"

on the summit of a little heap of sand or soil, and therefrom propelled, by one stroke of the driver, or other selected club, with all the force and judgment at the striker's command, to a position as nearly as possible to the objective hole. A full "drive," including the length of the flight of the ball in the air and the distance it will thereafter bounce and finally roil along before coming to a standstill, from a powerful stroke by a practived goifer, is about 200 yards, and even more. And then another stroke is made which varies according to the distance to the hole. Some holes are short, and require a skilfully-hit ball to land it in one stroke on the "Green." When the ball comes to rest behind a "bunker," or in long grass, and has therefrom to be got to the hole, the special club devised for the purpose has to be skilfully-nil, The most accompurpose has to be skilfully employed. The most accom-plished golfers have, at their best, managed to "hole" the hall in all the eighteen holes with an average of less the ball in all the eighteen holes with an average or less than four strokes per hole in a very exceptionally good round; and in the championships, four rounds of a course are played. Matches are either "singles," between two opponents, or "foursomes," in which a quartette of players engage, two on each side playing alternately with the wame ball. One must know the "links" well, and be able to judge distances and gauge with few each role on one's own way to get the best wind-force and rely on one's own play to get the best attainable results in a golfing competition; but, fond-ness for the game having once been acquired, it certainly furnishes a healthful and not too exacting outdoor relaxation, usually with very agreeable sur-roundings. Fach player (or pair of players) uses a roundings.

rountings. Fact player (or pair of players) uses a separate ball.

Hare and Hounds. This is an organised system of Cross-Country Running  $(q \nu)$ , in which clubs or schools engage for exercise in the winter time; a fleetschools engage for exercise in the winter time; a fleet-footed participant (or, in cases, two in company) being dispatched alread of the rest, who form the pack. Not only do the 'larres' set the ''hounds' as fast, a pace as they can, but they endeavour to elinde pursuit by legitimate doubling and doulging; and ty taking any available cover, after having put the pack off scent by leaving belining them a cumningly crossed trail. When the hidning-place of the hares is discovered, they will break away for a further run. In suitable country—with plenty of upland and hollow, as well as coppiec, to put pursued and pursuers out of each other's sight suffishently offer the render the sport interesting, and also with a good show of stiff hedges and wide ditches to negotiate—"Hare and Hounds" is fine fun for strong-winded lade. winded lads.

winded lads. Harriers are packs of hounds, resembling, but somewhat smaller than, foxhounds, used for hunting harse by scent. The larger harriers are somewhat slow-moving, but the smaller fox-beagle is alort and hively. In the chase, the hare, being found in the form, is allowed a hitle "law" before the harriers are loosed is allowed a little "law" before the hariters are loosed after her, and must not be pressed upon by the luntsmen, who follow on toot. Neither is it usual for the dogs, should they lose scent, to be directed to the course of the quarry, but they are left to discover the right track by themselves. The sport is one greatly estemed by many, as affording exercise and excitement, and being legitimate hunting, the "bag" furnishing excellent eating. Hare-hunting, carded out under proper arrangement, possesses great attraction. Attraction

out under proper airangement, possesses great attraction.

Hawking. (See Falconry.)

Highland Games. Scottish gatherings at which athletic sports, wrestling, red-daincing, tossing caber, and other exercises are indulged in.

Hookey is a game of ball played with sticks or clubs having hooked or curved ends, and is popular with both sexes, as providing admirable exercise for arms and legs alike. It is played, under well-devised rules, between a number of persons in parties or sides, the object of each team being to drive the ball, by individual and combined skill and definess, assisted by individual and combined skill and definess, assisted by individual single states of the states, and wice verial. The ball is small and of hard rubber, and hockey is played on ground marked very much as for football, the general method of the two games not being dissimilar, though of course the ball has at hockey always to be struck with the stick, and never kicked or

carried. In Scotland a variation of the game is called "shinty," in Ireland another adaptation is known as "hurling." Hockey is sometimes in winter played by

skaters on the ice

staters on the icc

Hoop-Trundling will always retain popularity as

pastime in which boys or girls may obtain running
cercise singly, or in couples or groups, in contention
for speed and the longest possible maintenance of the
loop in the forward-hounding perpendicular position.
The large hoop of light, plant wood, and the straight
stick for driving are nost favoured by female trundlers;
lads like the hoop of iron and a propeller of hooked
metal with wooden handle.

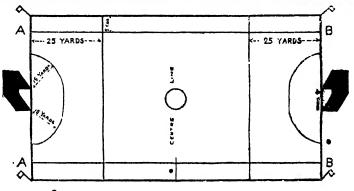
Hon-Boatch is a luvenile diversion consisting of

Hop-Scotch is a juvenile diversion consisting of the kicking with the toe of one foot—keeping the other off the ground—of a flat stone out of and into under on the grand—of a hat sometried diagram chalked upon fat pavement, varied as to definition in different localities, but always giving scope for agility. Hop, Skip, and Jump is a combined tribe forward movement of the character indicated by its

participated; and though the ball might never be handled, it could be carried forward on the "hurley" as far as possible, and any amount of tackling and wrestling seems to have been admissible on the part of the players to get their antagonists "off the ball." It was, in its heyday, a very strenuous sport, in which many hard knocks—not always unintentional, it is to be feared—were given; but the fau was characteristically Hibernian. In the beginning the opposing sides lined up "with cro-sed lurleys" in the middle of the field of play, when the ball was thrown straight into the air to fall in the midds of the players, each team immediately thereafter concentrating its efforts upon getting it into the goal which it was the business of the other side to defend. The scorers of the most goals, of course, won the game.

the other side to defend. The scorers of the most goals, of course, won the game.

Iue Hookey is a pastime very much indulged in in Canada, and at times in other places whereand when natural ice or an artificial rink may be available, the players being usually mounted on bladed or roller-skates. The difficulty of keeping a balance in such



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A B. 5 YARDS LINE

GROUND: 100 YARDS by 55 to 60 YARDS

OPENING of GOAL 7 feet by 12 feet

Diagram of Ground as marked out for Hakey.

name, usually preceded by a run to the hopping-off name, usually preceded by a run to the hopping-on-base, the endeavour being to cover the longest distance possible to the competitor in the separate and full room is often found for a contest of this simple

Horse Racing, which engages the attention of so

Horse Racing, which engages the attention of so many thousands of people, both rich and poor, in all parts of the world, is not a sport which comes within the compass of present treatment. It is the business of a class, and the spectacular attraction, for social or gambing reasons, of a multitude of all ranks.

Hunting. (See Beagles, Deer-Stalking, Earriers, Otter Hunting, Stag Hunting, etc.)

Hurdles. The leaping over hurdles, usually of graduated height and "suffness" as to "taking-sid and landing, either in a foot or equaritian steeplechaes, or singly in competitions at school or other sparse, Speed and the clean-clearing of the interposed obstacles are the objective. Hurling is the Irish variety of hockey, similarly played, by an equal number of antagonists, with crooked sticks and a ball to be struck into opposite goals. As many as sixty or even more players have

conditions adds great zest to the game as ordinarily

conditions adds great zest to the game as ordinarily practised.

Toe Poilo. Polo, played on ice, is a pastime highly spaced with danger, needing courage and much practice on the part of those engaging decrein.

Indian Ball Garne was a diversion in which the North American Indians were very expert, using two heatest stekls or bats to strike a ball beyond certain bounds, the white opposing players endeavoured to force it in a contrary direction. It onginated the Canadian national game of I.a Crosse, q.v.

Jiu. Jitsu, is a Jipanese method of wrestling, involving a severely scientific physical training. The term literally means "muscle breaking," The wrestler endeavours to get a tight grasp with his left hand upon the left wrist of his adversary, both wrestlers being erect, and lever him backwards, administering a throat blow with he flat of the right wrist, which generally proves a "knock-out." The Japanese attach much more importance to the development of the muscles in the region of the elbow than those of the upper arm; and their jiu-jitsu system, which implies all-round physical training of a highly intelligent order, renders them most difficult to overcome in single combat without weapons.

Jumping is an individual natural exercise to perfection in which practice is essential. As to what thereby can be achieved it may be noted that an Irish aniateur, Mr. P. J. O'Connor, cleared in roor with a running long (or broad) jump at Kilkenny a distance of 24 feet 11½ inches; and Mr. Ray C. Ewry in America II feet 3 inches in a standing long jump. Mr. M. Sweeny cleared in 1895, in a running high jump (in America) 6 feet 5½ inches, and Mr. P. Leaby (in England) 6 feet 4½ inches; while Ray C. Ewry got over a string 5 feet 5½ inches high at a standing high jump in America in 1901. In Inter-Varsity contests in England, Mr. C. B. Fry for Oxford in 1892 broke previous records with a long-jump of 23 feet 5 inches, and Mr. M. J. Brocks (also a Dark Blue) got over a Jumping is an individual natural exercise to per-

previous records with a long-jump of ag feet's linches, and Mr. M. J. Brocks (also a Dark Blue) got over a 6 feet 21 linches line at the 1896 sports in a high jump. Kias in the Ring is a social diversion in which the players must be on sufficiently intimate terms to render familiantly moffensive. Then, engaged in with spinit and good temper, it furnishes fine fun out in the open, especially to the young of either sex. One player stands, in the centre of a ring formed by the

rest widely as possible in formation. Sometimes the game is played to the accompaniment of a play-song, in which the isolated participant is enjoined, vocally and musically, to "choose the pretty girl" he "likes best," This done, he advances and touches one of the ring, who must then break away from the hands she has been holding—the ring immediately closing up—and run under the arms of the other players, "in and out and round about," to avoid capture, and if she can—and desires on to do-before heigh pled regain a

and round about," to avoid capture, and if she can-and desires so to do—before being held, regain a position as part of the ring by breaking the hold of players and taking a hand of each, thus reforming the circle. Then the pursuer must commence all over again. But if the chosen be caught, she is led from phantly into the centre of the ring and kissed. Immediately thereafter, her capturer joins the circle, and she becomes in turn chooser and pursuer, with and she becomes in turn chooser and pursuer, when
renewed singing and merriment. Sometimes the
chosen is perhaps after giving a good run for the fun
of it, an essy capture. That depends upon who the
pursuer may be. But affalulity and an even distribution of the sexes are essential to the success and the
charm of the simple old pastune, which is a survival
of the old English May Games, thenselves an adaptation of amusements of far more ancient date.

Kita-Flying as a pasture for the young, was introduced about the end of the 17th century into introduced about the end of the 17th century into Britain from China, where persons of mature years still engage in it. The kite is usually fornized of pager or a thin textile fabric, pasted on a flat frame of light wood and cane, with halancing tail and tassel wings; but various fantietus, shupes are employed, considerable skill being necessary for their proper construction and management in the air at the end of a slender string. The secret of good flight is to attach the string to a fitted "belly-band" on the frame near the centre of gravity, and keep the flat surface in oblother presentgravity, and keep the flat surface in oblique present-

ment to the wind.

ment to the wind.

**Mnur and Spell.** This is a variety of the game of "trap, bat, and ball," having affinity to "dab and trigger" already noticed; the layth ball being struck away when released into the air from a simple trap. It is called in some places "Nurr and Spell," in others "Northern Spell," which latter term is probably the more correct, as indicating a northern adaptation of an old and simple game. It is played for praces in the manufacturing and colliery districts of Vorkshire, Lancashire, and neighbouring countes by the working classes, adult as well as juvenile.

classes, adult as well as justenile.

La Crozee, a development of the Indian Vall game, nationalised in Canada, and localised elsewhere, is played by sides as at football and hockey, with sticks four to five feet-long, bent at the end like a bishop's crozier, and netted in light-drawn gut to a point more than half way down the haft. The ball, of hard rulber, may be driven with, or carried on the crosse towards goal, which consists of a couple of posts seven feet apart-and a transverse bar six feet hugh. The blay feet apart and a transverse bar six feet high. The play space is divided into two halves, of dimensions similar to those obtaining in football, each half being in turn defended by the opposing sides. Lewin Billiards. This game, also called "Troco," is played on well-mown and rolled turf, as level laid as possible. An iron ring is fixed in the centre of the ground, and the players—two or more in number—aw provided with cues, iron hooped at the end. The object is to drive the lail through the ring with a forward stroke, which counts one towards game; or, first striking your opponent's ball, to get your own from the impact under the ring, which is a cannon, and counts two; or, to drive your antagonist's ball through the ring, counting one. The "break" continues until the player fails to score, when his adversary strikes. Eleven, fifteen, or twenty-one may make game, the larger number being usually agreed upon when there are sides instead of single players.
Lawn Tarnis is an enjoyable out-door game,

Lawn Tennis is an enjoyable out-door game, played over a net on close-cropped grass, as for "Badminton," with light broad rackets and balls of white felt-covered rubber, instead of a shuttlecock. white felt-covered rubber, instead or a simutecous. "Courts" of regulation dimensions are marked with tape or whitewash. The "server" serves across the net diagonally to the opposite court; "striker-out" returns, until one fails, and yields a point. Either player loses a point if the ball in play strike his hand or any part of his person, or if the ball be struck twice. "Striker-out" becomes "server" at the end of a game. According to the laws of the All England Lawn Tenns Club "on either player winning his first stroke, the score is called fifteen for that player: on either player winning his second stroke, the score is called thirty for that player; on either player winning his third stroke, the score is called forty for that player; and the fourth stroke won by either player is scored game for that player. Except as below: It both pather, have won three strokes the score is called deuce; and the next stroke won by either player is scored advantage for that player. If the same player win the next stroke, he wins the game; if he lose the next stroke the score is again called deuce, and so on until either player win the two strokes inmediately following the score of deuce, when the game is scored for that player." In the four-handed game the players take the service alternately throughout each game. The rule is that no player shall receive or return a service delivered to his or her partner. The order of service and of striking out once arranged must not be saltered, nor shall the strikers-out change courts to receive the service until the end of the "set." The receive the service until the end of the sec. I need to side first winning six games wins the set; except when both sides have won five gaines, when the score is called games all. Then the next gaine won by either side is called advantage to the winners, who, should they win the next gaine, take the set. But, should they lose the next game, the score becomes again games all; and so on until either side win two successive games and the set. Usually a lady and gentleman are partners in the four-handed game, which is deservedly popular with both seres in the summer rune. Clubs play it with very strict regard to code, governing the service-line, half court-line, side lines of courts, "volleying," the positions of the players, the method of service, and the definition of faults."

Leap Frog is a boys' game, in which the modus operandi is "the giving of a back " by one lad and the change from the polysist game, in white file mouths of perandit is "the giving of a back" by one lad and the leaping thereover by another, the leaper touching the crouching player's back and getting an impetus forward, legs a-straddle, to alight and recover the erect position at the greatest possible distance. He of the two who gets intribest forward cleanly wins. The two who gets intribest forward cleanly wins. The two who gets that the strange is a firmly as he can, his body parallel with the ground, and his head bent downwards, or he will be enjoined to "tuck in his twopenny." The leaper is allowed a run before "taking off" at a fixed distance from the back he has to clear, which may be high or low, according to physical possibilities, so long as rigidity is maintained. North-country lads call this sport "loup back" (leap back).

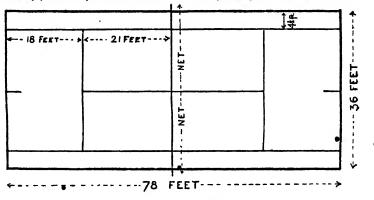
Maspless. Boys play a variety of games with small spheres, oftener of stone and glass than of marble plain or coloured. These are assessed at different values for play, the staple being the "alley-tors," or "boindies." The "blood-alley" or "Dutch alley," of "boindies." The "blood-alley" or "Dutch alley," of

prettily-marked, red-veined, hard, tough marble, procured from quarries near Coburg, in Saxony, is a particular favourite with many lads; the gorgeous ciliptically-ringed "alieis" of glass are too-prittle for the knocking-about they would receive in the games of "shot" and "ring-taw" in which body delight. Other games with marbles are hand, holey, and odd or even, the principle being by good aiming to get the marbles into a small hole from a given distance; to strike by a finger and thumb shot your opponent's marble, placed on a mark, with your own; or to drive out and capture marbles by alternate approaches from a ring in which they have been stakes, each player getting all he fairly can. Many ingenious games, combinations of shooting and bowling the marbles, are known to most schoolboys. The marbles employed by the players are stakes in the games, and experts in luck are continually "skimming" out their less fortunate antagonists, who have to reylenish their stocks by purchase. A variety of marble play in which one boy owns a wooden frame, serrated with small piercings at intervals, is popular in some parts.

and license, and in London in Bluff King Hal's time this lawlessness culminated in the excesses of Evil May this lawlessness culminated in the excesses of Evil May Day [157], when the rioting of the city apprentices, in resentinent of alien immigration, had to be suppressed by the soudery, and was followed by the imprisonment of some three hundred of the mob, and the glibbeting of several. This, and a later ebullition of Purtanical animosity against all manner of poyful demonstrativeness, killed "Maying" as an institution in Britairi, and banished the Maypole as a "long wooden idol" from the land. But the spurit from which sprang the "May Gaines" and the "Whitsun Ales," of our foregoers survives in the many popular loidays and gala gatherings that still—with far fuller facilities—mark the spring and early summer on the various recreation spring and early summer on the various recreation grounds.

Mass Running is a lively exercise, forming part of the curriculum of physical drill in some of the schools, varied in character, and calling for no special description.

Madicine Ball is the passing from hand to hand of a heavy ball, a species of exercise favoured much in



NET: HEIGHT 3ft.6in. at posts. 3ft. at centre.

Diagram of Ground as marked out for Lawn Tennis.

numbers, say from one to nine, a low number being placed next to a higher one. The frame is placed on the pavement as the playground, the players roll from a stated distance their marbles towards the holes. The stake is the bowled "boundy." If it fails to enter any hole it becomes forfest to the owner of the frame; should it enter it wins for the bowler as many "boindies" as are marked over the hole it went through. The frame-owner, haying a good reserve stock to pay out with when the bowlers are in luck, usually has the best of it in the end, like the keepers of the bank in gambling games of greater import.

stock to pay our many control of it in the end, like the scopers to the bank in gambling games of greater import.

Maying and May Games were nerry gatherings of the populace in the open in olden England, derived in a measure from the Floratia feasting of ancient Rome, in ceiebration of the resumption of the goddess of the flowers. There were ancient Rome, in ceiebration of the resumption of the reign of the goddess of the flowers. There were archery morrice dancing, and other devices for pastime all day long, and bonfires, stage-plays, and all manner of hilarity in the streets at night, presided over by the Lord and Lady of the May. The rich in authority provided the wherewithal for the entertainment of the multitude : but the free fun degenerated into disorder

American outdoor gymnasia. The ball weighs from

American outdoor gymnasia. The ball weighs from four to nise pounds, and the catching of its trengthens the muscles of the back, legs, and arms, develops the chest, and invigorates the system generally, whilst affording very considerable antissement.

**Endel Yacht Sailling is postime possessing singular charm for many, and affording scope for the exercise of constructive skill, and ability in the management of the tmy craft upon ornamental waters in the parks and elsewhere, especially on breezy days.

***Mooris Dancing.** Morris or Morrice Dancing had great vogue in medieval Britain as an open-addiversion, the performers being fantastically attited and assisted in their gambols by the noise of the castanets and rattles which they manipulated. It was of Moorah derivation, and was probably brought from Spain, caref. Edward III., by John of Gaunt: holding high favour until about the reign of Henry VII., and fitfully thereafter. thereafter.

Mineholas, obsolete now, was a game in which a number of holes, according to the number of players, were made in the ground in front of a wall or other barrier, just large enough to receive a ball, which was

bowled from a prescribed distance. "Egg-hat" (q.v.)

bowled from a prescribed distance. "Egg-hat" (g.v.) was a variation of the simple pastime.

Northern Spell. (See Knur and Spell.)
Gallone, an adaptation of an old Italian game,
"Palione" (g. v.), very similar to rackets or court tennis;
quite forgotien now as far as Britain is concerned.
Obstacle Racing, a diversion furnishing occasion for ingenuity on the part of the devisers of outdoor sports, and fine fan for the spectators, who make merry over the difficulties created for the competitors to overcome or be defeated by. It is a comedy element of summer gatherings which requires here no elucidation.
Otter Hunting. Formerly a common British port, this can rarely now be induged in because of the increasing scarcity of the quarry. Otters would always "put up a good fight" with the hounds trained to hunt them from their rivarian seclusion and chase them along the banks of a stream, or follow them when to hunt them from their rivarian seclusion and chase them along the banks of a stream, or follow them when they took the water; but for the assistance of the huntsmen who helped the dogs to harry their quarry, it was generally odds on the otter escaping in his familiar haunts; and in any case he inight be expected to main and drown dogs before being vanquished. Where one of the family of Lutra vulgaris survives, he is generally unceremoniously slain as a poacher at the first opportunity nowadays.

Pail Mail, the forerunner of croquet, very fashionable in Stuart times. It consisted of the driving with a wooden mallet, in divers directions of a hall through

a wooden mallet, in divers directions, of a ball through hoops suspended from poles or driven into the ground, or both; and was often played by ladics and gentlemen on horscheck. The sport originated in France and was there called *Paulie-maile*. It was played in the purlieus of St. James's Park, London, a good deal; and the name of the game is perpetuated in a famous

adjacent street.

Pallone. This-corruptions of which have travelled westward, one having for a while same favour under the name of "Oalous" [6,7].—is the national ball-game of Italy, dating back to Imperial Roman times, and flourishing exceedingly in the great days of Florence, It is a kind of cross between tennis, as we know it, and It is a kind of cross between tenins, as we known, and douball, ehe wrist, nowever, armed with a bracelet, being employed in striking the 'there. Pallome holds its own as a popular pastime in Italy, and is played with much ceremony, and under strict regulations.

Paper-Chasing is a "conditioning" exercise favoured in boys 'schools, especially in cold weather; a species of cross-country running, in which "seem" is alid in a trail, with fragments of paper or confett, by lads allowed a start of their pursuers. (See also Hare and Honge)

lads allowed a start of their pursuers. (See also Hare and Hounds.)

Pelota is a Spanish wall and ball gam@. usually played by sides and three against three, in an open court with a frequent wall, or back wall for the rebound, and a rectangular wall at one end stanting downwards at top from the fronton. The players stand twenty-five yards from the fronton, and sk ike the pelota or ball with terrific force against the wall, higher than a mark a yard from the ground, using a "christera," or strong hollow-curved basket, alout 3 ft. long, and strapped to the arm. The server sends the liard ball likea cannon shot to the fronton, and on the fre-bounds the other players in succession volley it along until a fault is made, counting, me against the side responsible. fault is made, counting me against the side responsible.

Save for the use of "christera" and the amazing velocity of the "palota" the game and its regulations resemble "fives" or wall tennis.

resemble "hees" or wall tennis.

Pole-Jumping. Pole-Jumping, leaping or vaulting is the increase of the height-clearing power of the leaper by the use of a pole of a regulated length. At Kidderminster in 1891, Mr. R. D. Dickinson jumped at feet 9 inches with the aid of a pole; and a pole vault of 21 feet 101 inches has been recorded in the

vault of rx feet roj inches has been recorded in the United States.

Polo may be simply described as hockey on horse-back. It splayed by riders on specially trained ponies, long-handled "sticks," or mallets, being used to strike the ball from the ground towards goal. The game was introduced from the East, and is very popular at gymkhanas and military sports, as it permits the display of much equestrian skill and muscular determination while the danger myolved proves an added charm to daring riders. The bail—of white-painted

willow-root—must be light enough not to injure the legs of the ponies. Its diameter is about 3 inches, Under the rules codified by the Huringham Club—which gousm all match and exhibition games—pole is played by eight players, four saide, each having his appointed blace and particular duties in the game, his energies being directed to the dual task of unpeding the course of the ball towards his own side's goal, and accelerating its progress in the direction of that of his antagonists. Player No. 4 on either side is the back, a position of the greatest responsibility the grant's his

accelerating its progress in the direction of that of his antagonists. Player No. 4 on either side is the back, a position of the greatest responsibility; he guards his goal, and passes the ball forward to No. 3 of his own side, exerting himself all the while to prevent being "ridden-off" by No. 1 of the opposition team. Good polois played at full gallop on ponies 14 hands 2 inches high, and the "off-side" and "ridding-out" laws are rigorously enforced by the appointed umpires.

Prison Barrs, or Basse, was an old game, like "rounders" or "feeder" in many points, which once held considerable vogue, and had to be prohibited by proclamation in the reign of Edward III. at Westmunster, during the sitting of Parlament, from the inconvenience it caused to passing legislators. The fill game was played twelve-aside, and there were inter-country matches at "base" in Brutin as late as 780. Circket has swenj it away in this country; base-ball preserves its name, and some of its cardinal features, in America.

features, in America.

Punting, in aquatics, is the propulsion of a flat-bottomed boat in still waters, by means of a long pole pressed to the bottom. It is a neeful and easily acquired accomplishment for fishermen and water-fowl shooters, and an enjoyable form of boating in

acquired accomplishment for fishermen and waterfowl shooters, and an envoyable form of boating in smalle conditions generally.

In damage a supervision of the property of the same and water in damage, who are property of the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the s

iron-loaded at either end, and was grasped by one hand in the middle and by the other between that and hand in the middle and by the other between that and the end. In use the latter hand was rapidly brought from one quarter of the staff to the other, imparting to it a swift circular motion, capable of being directed to the delivery of shrewd knocks at unexpected points upon the staff or person of the adversary. Great dexterity was requisite at quarterstaff play to avoid injury

Quintain, Running at the. An ancient tilting sport. The quintain consisted of an upright post, over the top of which turned easily upon a pin a stout cross beam. The game was to gallop up and endeavour to strike heavily with extended lance upon endeavour to strike heavily with extended lance upon the broad end of the beam, sending it swinging, and get out of the way before being smitten with a sand-bag suspended from the opposite end of the revolving quintain-head. To miss the quintain with the blunted lance point was a fault, to strike it and spur away unlit by the bag was dexterous horsemanship. Some-times swords were used by the tilters in lieu of lances; while for the cross-beam was occasionally substituted a substantial wooden effigy of a soldier fixed on a swivel, a shield in one extended hand and a heavy ord in the other.

Several In the other.

Quoits are used in a game which comes down from the discus-throwing days of the Greeks and Romans. "Hobs" of iron are driven into the ground at distance of it to a grards, and the players and eavour to cast over one "hob" steel quoits pitched from the other. These are flattened rings, convex on the upper side, is inches wide in the ring; their weight varying from a to 5 pounds the pair. The nearest cast to a ringer" wins the throw; and, to count, the quoit must lie rounded side up. The opponents pitch up a quott alternately, playing in a single-handed game from either end in turn at the four-handed game. Usually 15 points is reckoned game when four players participate and 1r when only two are engaged.

Usually 13 points is reckoned game when four players participate and 11 when only two are engaged. Racquests, or Rackets. Usually practised in open space bounded by a high wall at one end, this game resembles "Fives" in the wall-play. The racquets are netted with stretched gut, the balls very hard and about 14 inches in diameter. The "in-players" (two or four aside may play) guard the inner courts, the "out-players" outer courts. The "in-

complete control of the mount he or she may be able to command. Persistent practice, in this as in all else, brings about perfection.

Roque is a lawn game in some sense like lawn-billiards, again resembling croquet at points, and would appear to have been adopted in America from the latter game. Its chief feature is the driving of the ball of your opponent by the impact of your own, after a stroke from a short-handled mallet, and getting either

a stroke from a short-handled mallet, and gesting either or both balls through a ring, on the stroke.

Rounders (of which Feeder, q.v., is a variety) is a game that players of differing ages and sex may engage in and enjoy. There should be at least five players a side. The ball should be light and of moderate size, the "bat" a rounded stick easily wielded with one hand. A player on the in side stands on the home base, stick in hand, to receive the ball with his bat from the pitcher, who faces him at about a dozen yards' distance. If he miss striking the ball, pitched to tim in the air, three times successively, he is out, and one of his four fellow players comes in to take strike. On hirting the ball the striker may begin his round of the bases placed diagonally to each other about thirty yards (or less); or he may defer doing so until he has dealt with the third delivery.

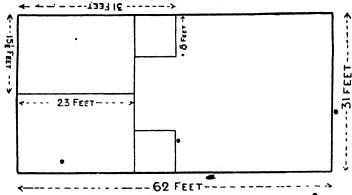


Diagram of Ground as marked out for Racquets.

players," striking the ball above the line on the wall, endeavour to make it rebound to the outer courts; the 'out-players' have to volley or strike it back first bounce to the wall (dways above line) to rebound within the inner courts. On failure, the opposing players score and serve. At Racquets the wall-line is usually about 2 feet 2 inches high, and the number of aces reckoned to game varies. At Prince's Club the aces reckoned to game varies. At Prince's Club the rule is that the game be fifteen up. At thirteen all the "out-players" may set it to five, and at four-teen all, to three, provided this be done before another ball is

Relievo, a rather rough, rushing, catching, and detaining game, engaged in by a greater number of players than the obsolete barley-broak, which, in points, it resembles.

it resembles.

Ridling is a very valuable exercise as well as a pleasant pastime, and may be profitably cultivated by all who can afford to own or hire a suitable horse. If many points riding on horseback is much better in itself, and conduces more to the enjoyment of various aports, than either cycling or carriage exercise; and it seems a pity that the cult of the automobile, or any other kind of wheeling, should lessen the vogue of equestransism. The horse-rider requires to acquire, by tuition, or apt imitation, a graceful and easy seat, and

One of the fieldsmen stands ordinarily in front of each One of the fieldsmen stands ordinarily in front of each of the three out bases, the catterier behind the home base guards that. If the ball be caught in the air by the pitcher or any fieldsman the whole side is out. The bestruck by the ball when running between bases he is out. He must endeavour to make ground as much as possible whilst a ball see or one of his side has struck is being fielded. No two players of the in side may occupy one base at the same time; but the Lat to reach it is out at the touch of the balls. The player who has made the round of the bases and reached home takes strike again when his turn comes, until all but one player of the in side has been resched home takes strike again when his turn comes, annil all but one player of the in ade has been disposed of by catching or running out. This last player may, by running a "rounder," get all his side in again; that is, he must, after the biggest stroke he can compass, run speedily round the whole of the bases and home again, before the ball is recovered and the home base touched by it. Such a ball must not be caught by any of the out side, neither must the striker be thrown at, or impeded by, the fieldsmen, all of whom must concentrate on getting the ball to the catcher or otherwise touching the home base with it before the striker's return. If the striker reach the first base only safely before being brought to a stand on his run, he scores but one for his hit; reaching the second base unstopped counts two, and the third three, while a "rounder" made usually reckons five. When the entire in side is put out, the fielding side goes m, and the team with the highest aggregate after a completed innings wirs, unless two innings saide be agreed on for game before the start. When played with more than five aside the additional players on the out side scout in the country, which makes rungetting more difficult; but the game, fairly played, is a very good and lively one, not over complicated, and capable of conclusion within a reasonable space of time.

Emering is a deservedly popular sport, as well as a useful art, and it moreover affords splendid and uniform exercise to the entire nuscular system. It should be cultivated in some degree by all who have access to any kind of suitable boat on any safe water, for good oarmanship gives great gratification and brings much physical benefit. To perticipate in this one does not need to be a racer or to undergo undue exertion. Rowing may be made either liard work or a pleasant

pastime.

Running is more in the nature of recreative exercise than sport, and the inspiration to indulge therein, in moderation, should always be encouraged in the young. Running competitions, wherein the attainment and maintenance of great speed are involved, require to be prepared for by careful living and intelligently ordered training. The exercise, as such, comprises a succession of forward leaps, putting the muscles of the leys and trunk into healthy activity. such, comprises a succession to forwar legis, pointing the muscles of the legs and trunk into lealthy activity, and setting the lungs vigorously to work. At all stages of practice for pedestrianism of every character, it is advisable to avoid over-futgue, and to desixt from volent effort upon breathing becoming difficult and and advisable to word over-rategue, and no desix from violent effort upon breathing becoming difficult and perspiration profuse. Great bursts of energy-expenditure are apt to make physical mixchief. Exceptionally fine physique, very severe training, and the plink condition are requisite to enable any man to run a mile in under four minutes and a quarter, as W. G. George did in 1886; or to accomplish the wonderful series of running records of Mr. A. Shrubb "put up" in xoogand xoo4, transcending everything before achieved on the track over distainces from two to ten miles, the mark for which was reached by him fifty minutes, forty seconds. Celerity and staying power may both be beneficially brought within the command of any person in health by temperate running; training and exercising at proper peluods however.

Running at the Quintain. (See Quintain.)

Baok Racing provides sport of a comedy character at many summer pedestrian meetings and outdoor social gatherings, particularly to 4the onlookers; the competitors get falls as well as fun for their pains.

tolers; the competitors get has a went as in the toler pains.

Salling in small boats is a pretty pastime, calling for tultion from an expert, and care on the sallor's part thereafter. The management of any kind of wind driven craft in the water, where life is at risk, ought never to be adventured unless an efficient education in the art of saling has first been obtained.

the art of saling has first been obtained.

Soulling implies the propulsion of a boat by the skilful rocking movement, from side to side of one oar over the stern; or by the use of an oar in each hand by a single-seated scaler. The latter is an interesting feature of many regardate, the former a desirable and utilitarian accomplishment.

Sea-Pishing, with line and baits, calls for the employment of strong and heavily-loaded tackle, with those back and substantial floats. Even shore there

emiphoyment of strong and heavily-loaded tackle, with stout hooks and substantial floats. From shore, pier, or boat, satisfactory sport may often be obtained under favourable conditions of weather and tide, providing properly-attractive bait he used, such as cockles, mussels, small crabs, bits of fish, worms, etc.; while pieces of bright red cloth will sometimes be found a killing lure for mackerel. A very strong rod tound a killing lure for mackerel. A very strong rod may be used effectively in a calm sea for some fish, but the season of the season of the season of the august is a season of the season of the season of the august of the season of the season of the season of the Bea-Bawing is a childsh pastime, needing only a plank equipoised on a slight eminence, and a boy or gitl at each end, evenly balanced, to render it enjoyable.

Shinty may be dismissed with a reference to "Hockey," of which it is the Scottish variety—and somewhat ancient at that—as "Hurling" is the

somewhat ancient as man-like the chording is a field-sport to the elucidation of which libraries of books have been and are being devoted. The principal British sports with dog and qun are the shooting of grouse, pheasants, and partindges; and all these can only be indulged in in due scanon, under license, and by authorised persons, with proper observance of the law of trespass. Shooting for the purpose of attaining or exhibiting proficiency in marksmanship is hedged about by protective regulation, as it should be. Rifless and shot-guns are playthings for the privileged and the discreet.

Shuttlecock. (See Battledore and Badminton.)

minton. minton.)
Single-Stick, as differentiated from a variety of
"Fencing" (see "Indoor Games" Section) was an old
game of cudgels in which the player who first drew
blood from his adversary's head was adjudged
victorious. Since this kind of "Single-stick" was an
extensively popular British sport, fashions have altered

greatly,

Skating in the open on natural ice—necessarily in

Britam only an occasional winter pastime—is most
exhilarating and fascinating to the good skater. The exhilarating and fascinating to the good skater. The necessary conditions precedent are safe and smooth ice, approved skates, and the ability to poise the body on the narrow ridge of steel firmly secured underfoot whilst moving in the desired direction, one foot relieving or assisting the other. Comfidence comes of assiduous application; grace in executing the evolutions of figure-skating will follow. In most large centres rink-skating is procurable, tendering the devotion to the pastime independent of meteorological mutability at the cost of the up-breaking "snap" of frosty out-door air. (See also Roller-Skating in "Indoor Games" Section.)

Bki-Running is a sport peculiar to snow and

Ski-Running is a sport peculiar to snowy and hilly regions, and the Norwegians and Finns are adepts thereat. The ski are elongated snow-shoes, 8 to 9 feet long, of smoothed, tough wood, upturned at the front, With feet tightly strapped to the centre of these, the ski-runner slips down a snow-covered or frozen incline, and, with the impetus gained, slides up a fronting hill, at the sunnint, when possible, leaping forward in the air to gain momentum for further glacial progress. Skirminers in "hill go" have been known to leap a hundred feet at a bound.

hundred feet at a bound.

Skipping is not merely a grilish exercise; it is a pastime which, whether engaged in solus or with the rope "turned" by other hands, is recommended agood practice for athletes who desire to keep conditioned for football and other strenuous games. It have the harders are server as all less thank the keeps the breathing organs as well as the muscles in

trun.

Sleighing, or "Sledging" is an alluring pastume on ice or frozen roads, whether the sleigh be drawn by hand or by horses, dogs, or other sure-footed animals, to whose harness are attached merrity titikling bells. In Russia, Canada, and other lands where snow less deep in winter the sledge is often a picturesque necessity of transit.

Spiropole. (See Tether Ball.)

Squash Rackets is an adaptation of the outdoor Racquet game (wall and ball) which has obtained some favour in the United States. It has no particular preferential merit over the orthodox pastine.

favour in the United States. It has no particular preferential merit over the orthodox pastime.

Stag Hunting is one of the old British "blood sports" with but limited lingering vogue. Where it survives a preverved stag is taken from cover beforehand, and carted to the meet to be released for the chase. The object nowadays is not to kill the animal, but to obtain the excitement of the running he may make for hounds and hunters. The Royal Buckhounds, an accident Court enzages were the start in a sactive. nake for hounds and hunters. The Koyal Buckhounds, an ancient Court appanage, were kept up as an active hunting establishment until quite recently; and there are still over a score packs of stag- or deer-hounds in Eugland and Ireland. The season for buck-hunting in England is from August soht to September 17th; the red deer may be classed from the first mentioned date to the last day in September; the hind is hunted in October and again between April 10th and May soth. In Ireland the pursuit of the male deer is legally allowable from October 20th to June 20th, and that of the fallow deer is practised between June 20th and

the fallow deer is practised between June oth and Michaelmas. Steeple-Ghasing is the racing (a) of horses—necessarily lespers or hunters—over courses in which impedments in the way of more or less "stiff" fences and water-jumps are interposed, sometimes in combination; and (b) foot-races for lads, in which similar obstacles have to be surmounted. The horse and rider and runner on foot first covering the entire distance cleanly wins (unless a handicap allowance should have been arranged). Any failure to get "over the sticks" or "coming a cropper" at a water-jump puts the competitor out of the race. Obviously more skill and daring are needed in riding a steeple-chase than in horse-racing on the flat; and vigorous school-boys get good sport out of the foot steeple-chase. (See Hurdles.)

Stool-Ball is a very old English game generally regarded as a rudimentary form of cricket, now all but relegated to oblivious by the rise and progress of the great national summer pastime. Sinall sides of girls played stoot-ball at one period with considerable frequency; and what was called "stoois" was a more extended form of the game.

Swimming comprises the art of floating upon or in the water, and of progressing therein; a very desirable accomplishment indeed, as well as a pleasant and healthful pastine. It involves intigorating and healthful pastine. It involves intigorating muscular exercise, with agreeable support to the body during its practice. The first thing to learn is how to keep the head above water; this essential mastered, to keep the nead above water; this essential mastered, the movement of the limbe to compass progress can be entered upon with confidence. Harmonious flexion and abduction of the legs form the sum total of the science of swimming, as the ability to prevent the shking of the head comprehends the whole art of floating. Natatorial exercises of the elementary sort should be taken in shallow water, and that near the shore, and in company of a competent assumer for fear of cramp or panic paralysing the novice. When one can float or extended swimming may be essayed, until one is ready to plunge into the water for exercise or to save a hee at any time. take a few strokes with coinfort and self-reliance, more

Bwinging in a suspended seat, the ropes and supports of which are sufficiently strong and firm, is pleasant exercise; for young cludden it should be gentle and "safe": those of larger growth can generally be trusted to take care of themselves.

Tent Pegging is a feat practised in military sports:

Tent Pegging is a feat practised in military sports: the taking up of a tent peg on the point of a spear or iance when at full gallop on horse-back. It is a survival from the old days of the tilt-yard.

Tether Ball. This is a game in which a ball is attached by a cord to the top of a firmly planted perpendicular pole, fixed on a lawn or other level ground, marked into two courts. The ball is struck by the players, standing racquet in hand, on either side of the line marking the divison between the by the players, standing racquet in hand, on either side of the line marking the division between the courts in the centre of which the pole stands. Bal and racquet may be as for lawn tennis, and the pole ought to be about 5 feet high with the cord for the ball 2 yards long. The game is sometimes called "Spiropole," because of the apritude of the cord to trust spirally round its support after receiving a swingeing blow. The players commence alternately; and at "Spiropole" the starter holds the ball in one hand with the cord stretched to its limit, striking it with the racquet with the object of winding the cord tightly and completely round the pole. The opposing

tightly and completely round the pole. The opposing player, keeping in his other court, endeavours to make the ball travel in the contrary direction, and whichever first completes a spiral scores a point. Three-Lag Races are farcical events in which pairs of participants are set to run in competition after having the right leg of one of each pair bound to the left of the other. Tumbles and hilarity result. Through the Hammer. This is a feat of strength and againty practised at athletic sports meetings and game gatherings. A hammer with a 56 pound head and 4 feet liandle, grasped with both

hands, has been thrown 113 feet 11 inches in America. In Britain, a 16 pound hammer, swung in a 90 feet circle, was thrown by J. Flanagan 163 feet 1 inch, while the United States record for a similar feet is

while the United States record for a annuar seat we given as 175 feet 4\(\text{i}\) index.

Tig is a juvenile game in which one of a crowd of dodging, running players tries to overtake and touch one of the others, who then becomes "tig," and seat to take up the pursuit. "Touch" and "Touch and Go" are the names given to this pastime in some

Tilting at the Ring is an equestrian exercise, in which the object is to get the point of an extended lance, whilst riding at full speed, through a suspended

lance, whilst riding at full speed, through a suspended ing defily disengaging the weapon without loaing hold of the shaft, and avoiding being unhorsed. It possesses some semiliance to the old sport of "Running at the Quintam "(g.v.).

Tobockaning is sleighing down hill, and is verypopular in Canada and elsewhere on natural snow-tracks. It is practised also on artificially prepared "switchback," slide, and "chutes," the latter ending often in a "shoot" into water. The toboggan is shaped something like a flat-bottoned boat. The pastime in any form is exclining.

Top Spinning. This is a pastime affording perennial delight to a small boy, requiring a smooth surface and a top of one of three kinds to spin thereon. The peg-top is pear-shaped, with an iron or steel prod at the small end. It is uptily wropped yound with a

The peg-top is pear-shaped, with an iron or steel prod at the small end. It is tightly wrapped round with a string, beginning at the peg and winding upwards, and then thrown forcibly on the ground, point downwards, the string being released deftly in the cast, to impart rotatory motion. The whip-top is a wooden inverted conoid, kept spanning on the point by blows from a leathern lash. The humming-top is a hollow metal globe on a pointed central stak, round which a fanstring is wound closely and evenly, being introduced through a hole in the side of the sphere to one in the spindle opposite thereto. The top being held firmly near the floor with the left hand, the string is pulled away with swift, strong traction, on its outse end by the right.

Trap, Bat, and Ball. A game deriving its name.

Trap, Bat, and Ball. A game deriving its name from a kind of trap (varied in form and construction in different places) being employed to spring the ball into

different places) being employed to spring the ball into the air to be struck away by the blastinan. Sometimes it is called "trap-ball" simply. (See Dab and Trigger and Minur and Spell.)

Tug of War. This is a gaine in which opposing sides of equal number (usually seven a side) pull in different invections upon a stout rope, in the endeavour to draw some portion of their opponents half over a central mark or scratch. A prescribed length of play from centre is allowed to each party of tuggers; if this pulled over, those gaining the ground (or rather, length of rope) sore. Conserted tension, strong and long pulling, and firm foothold are factors in the long pulling, and firm foothold are factors in the conquest. In Canada in regy two teams pulled against such other in a tremendous "tug of war" lasting two hours and ten minutes, without either holding ar advantage-over the other sufficiently long to secure a divantage-over the other sufficiently long to secure a

advantageEver the other sufficiently long to secure a win. Walking. (See "IndoorgCames" section; also Pole Jumping.)

Walking comes naturally as a pastime to man, he Being anatomically constructed for locomoton in the erect postme, and there is no exercise more conductive to continuous good health. The alternate forward motion of the legs and feet procures progression, but every limb is called into activity by pedestrianism, and the circulation of the blood stinulated throughout the system. Learn to walk gracefully, and for a reasonable distance regularly without fatigue. Even prolonged walking, in good air, beyond the tiring point, is salutary, but for the ordinary purposes and convenience of latter-day life, it is not often necessary, except for observation purposes. Yet one should be capable of long and quick walking, it hough there is no occasion to alm at emulation of the speed or endurance of Mr. J. Sturgess, who walked a measured mile in a triffe over six and half munites, fair heel and toe, covered well over eight miles an hour, and thirteen miles in just under one hour and forty-three minutes.

Water Polo is handball in the water, with ball and nets and side formation very much as for football. The ball may be passed or headed backwards and forwards as in the land game; but the players must not touch bottom with their feet when they are passing with the hands or a "foul" will be whistled for by the referee and penalised. A player holding the ball may be finnered to make him relinquish his hold, and the players must not swim to strike from an "off-side" roceition. position.

payers most not swint to strike from an obsistion.

Wheelbarrow Racing is a comic sport in which one person walks forward on his hands the while his feet are held in thegair by a partner walking in step behind him; the two competing with other pairs in similar plight to first gain the winning post. It always makes an anusing contest at a gala gathering.

Whippet Racing. This is the pitting stogether of speedy, long-legged, short-bodied, running dogs, of specially-bred, modified greyhound form, in time races, a sport very popular with the pitmen and other workers of the North of England. The whippets are fed and trained regardless of expense, relatively speaking, and prized by their owners often beyond any other powersion. They run in heats, on courses contiguous to large towns, being started at pixtol shot by release of the stipper's hold on the skin of the neck and the tail above the raised lundquarters. Some whippets can tear along at a rate of over seventeen yards a second.

Wrestling was a feature of the Olympian games of the ancients, and a modification of the method there employed has survived to our day in the Greco-Roman style. Wrestling is also still practised by athletes of great prowess in Cornish, Cumberland, "catch-a-catch-can" and other strenuous styles; more often, it must be admitted, as a mero spectacular display than as bona-fide attempts of the participants to do their best to overcome each other; and usually in an indoor arena. In all descriptions of wrestling the endeavour is for one competitor to give the other a fall, either by means of leg field, wrist hold, or body hold, or by combined grappling and heaving. The back-hold and the struggle to maintain the perpendicular are of the Cumbrian and Westmorland style Wrestling was a feature of the Olympian games

of wrestling as exhibited at the Grasmere and Morpeta sports; the grip, on the upper trunk was played forforen for gail an hour—under Devonian and Cornish rules, in which kicking was permissible; "catch-as-catch-can" is the chief characteristic of the Lancashire style, that is to say, the wrestler is allowed to take any hold whatever, of the head, trunk, or legs, and maul, haul, grip, and struggle to hear his opponent's two shoulders to the ground. Modern Scottlish wrestling combines the Cumbran and Lancastrian styles; Irish wrestling differs again in admitting only the hold upon the elbow with one hand and upon the collar with the other, which must be mantaned, the first of the twain going to earth being vanquished. Tripping and sleght of foot are prohibited in the so-called Greco-Roman style prevalent in Continents! Europe, in which ground-struggling and sheer weight and strength count most. In one respect all wrestling is althe, there is nothing gentle about it, whatever outletted in the employment of physical force. (See also, Jiu-Jisau.)

Tachting is a fascinating sport, both as regards the management of saling pleasure vessels of light or large tonnage, and the enjoyment of the more expensively fitted steam yachts—now so commonwhich may assume the proportions of floating hotels. It is calculated that their aristocratic and wealthy owners have sunk in the combined fleets of sailing and steam (or otherwise propelled) yachts which to-day have a place on Lioyd's Expicter as much as ten millions stering; and their upkeep and maintenance of their crews, with club subscriptons, etc., runs into nearly a million a year. Probably the proprietors of, and guests upon, the smaller yachts, who actually participate in the navigation, get more actual satisfaction from their invigorating aquatic hobby than do the crowned and titled yachtsmen who lay themselves out tion from their invigorating aquatic houby than do the crowned and titled yachtsine who lay thenselves out to enter cup contests at enormous cost; anyhow the furling and spreading of "white wings" and salling over flowing seas at will is a port at once thoroughly Brinsh, healthful, and pleasing. The yachting meetings at Cowes and elsowhere are also always gay are picturesque social functions, given propitious weather.

#### SECTION II. INDOOR GAMES.

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Amusements, Indoor. All the popular indoor

Amusements, Indoor. All the popular indoor amusements, whether games or exercises, are dealt with alphabetically in this section, dances and card games being grouped together for facilitation of refetance.

Acting Charades. Choose a word of two or more syllables, gach of which is in itself a word capable of simple scenic illustration. Let the ablest mmics of the company, directed by its most resourceful member, act each syllable of the word separately and in order, in a little scena, mirthfully and with all available accessories, lastly presenting a scene properly descriptive of the entire word. Some charade actors introduce the key syllables and word into the dialogue, others only indicate it dramatically. Examples of good words for acting charades are "Pen-man-ship," "In-fan-try," (making ghe first scene an inn), "I-sing lass," "Sup-port-able," "Break-fast," "Fret-work," etc. The things to aim at are variety, fidelity to the subject alled with skildli mystification, and spinted conserved the external description of the supersection of the supersect comedy with picturesque dressing.

Acting Proverbs, though otherwise somewhat

Acting Proverbs, though otherwise somewhat similar, require a little more preparation than Acting Charactes, as some plot must run through the representation of the chosen maxim, which should be samiliar one, the actors endeavouring to delineate its moral. The number of acts required may be varied thus." A rolling stone gathers no mous" can be presented in two preliminary scenes and a final act devoted to the enforcement of the moral of the proverb. All Fours. (See Gards.)
Backgammon. Requisites; a board or table; fitteen black "men" or pleces, and fifteen white ditto; dice and cups to cast them from. The board is divided into two equal parts by a central bar, and on each half are marked twelve points, six at either end, white and

black alternately. The "men," are placed in the beginning as evenly as possible on points at the opposite ends of the two halt tables, eight white pleces, on white points on White's end, and seven black pleces also, on black points, at the same end, with eight black pleces and seven white ones correspondently disposed at Black's end. The gamewhith has numerous complications—goes in favour of the player with last first been able to move all his men to the proper points on his own table, and play them to the proper points on his own table, and play them one of the proper points on his own table, and play them of the proper points on his own table, and play them of the proper points on his own table, and play them of the proper points on his own table, and play them of the proper points on his own table, and play them of the proper points on his own table, and play them of the proper points on the proper points on the proper points on the proper points on the proper points of the proper points on the proper points of the proper points on the proper points on the proper points of the proper points of the proper points on the proper points of the proper points on the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the proper points of the prop

Any shot ball coming back over the half-way line is removed as "dead." The total number of the values of the holes filled with the eight shots is marked towards game (a mmbor fixed beforehands for the striker; then his opponent follows with eight strokes. The one first reaching the agreed aggregate number for "game" in an equal number of vists to the table or making most in an equal number of tries, according to pre-arrangement, wins. The Cannon Game. This is bagatelle with only three balls in use, as at billiards. The black object ball is retained, and the opposing players have one a white and the other a red ball to strike with. The black ball is "spotted," and the ball of the non-striker placed on a mark behind it ball to strike with. The black ball is spotted, and the ball of the non-striker placed on a mark behind it in the middle line of the table between the r and 9 holes (the first and middle ones of the circle). If the striker can with his own ball hit first the black and then his opponent's with his own struck ball, he makes a cannon, and counts two towards game. Sometimes these cannons, which are continued by the striker as a cannon, and counts two towards game. Sometimes these cannons, which are continued by the striker as long as he can score, are alone counted; sometimes the value of any holings made during the striking are added. When the striker breaks down, his adversary takes up the game; and he who gets to a given score first is victorious. Missiasippi. In this game a nine-arched harrier is placed as far up the bagatelle board as possible, and all the balls are sought to be holed, its interposition notwithstanding, with the added proviso that a side cushom must first be struck, otherwise the score resultant is marked to the opposing player. Sans Egal is a further variety of Bugatelle, in which, the black ball having been spotted, each player shoots alternately with one of four balls, red or white respectively. All the white balls holed by White count to hun, with the black double if he can manage it, and all the red balls he holes to his adversary, and wice versd. French Bagatelle, or "Shooting up the Board," is played on a table—often much smaller than an ordnary Bagatelle, or "Shooting up the Board," is played on a table—often much smaller than an ordnary Bagatelle loard—having a partitioned channel reaching nearly to the semi-circular top on both sides, and the centre studded with pins or pegs formed in circles, each with a snall upper entry, and so disposed as to allow channels between. Every circle is numbered, low numbered ones being in juxta-volvition with those helper; and the herbest of all has formed in circles, each with a snall upper entry, and so disposed as to allow channels between. Every circle is numbered, low numbered ones being in juxtaposition with those higher; and the highest of all has a bell fixed within it trunty. A snall glass ball is shot by pulling a string, from the left-hand groove, up the board or table, which is slightly inclined towards the street. He is the street has a fifteent force to board or table, which is slightly inclined towards the player; his am is to impur! just sufficient force to carry the ball to the top, so that it may roll gently down-into one of the pinned circles, and there lodge, when he counts the number marked in the hole occupied towards his aggregate score. If the ball roll down to the bottom by the right-hand groove, it does not count; should it ring the bell, the score of its ultimate rest-place is doubled. A slight variation of this game is sometumes styled "The Devil amongs the Tailors."

the Tailors."

Ball Games, Indoor, (See Bagatelle, Ballpunching, Billiards, Bowis (Table), Court
frannis, Ping Pong, Pool, Pyramids, Nine
Pins, Skittles, etc.)

Ball-punching. The striking of a large inflated
ball, suspended by a cord, with the fist, and avoiding
the recolt; an arhietic exercise of some value in keeping up muscular condition.

Bar-bells are dumb-hells, of variant weight, with a uniting rod, a yard or more in length, for use with both hands in physical drill and gymnastics. (See Dumb-bells.)

Dumb-bells.)

Basket Ball. (See Outdoor Sports.)

Basket (See Cards.)

Bézique. (See Cards.)

Bézique. (See Cards.)

Billiards. A ball game of skill and precision, played with a cue on a level and smooth rectangular table, covered with fine green cloth, with balls of ivory or bonzolme composition. The table is enclosed by cushioned sides, two to three inches high, having netted pockets at each corner and in the centre of both long sides. The haside measurement of a full-sized table is The inside measurement of a full-sized table is and a strain and a strain and a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a strain a small mark placed centrally on the table about a foot from the end furthest from that the striker starts at, and two white ones, one for each player to strike with. Of these one is distinguished by a small black speck, and is called "spot," the other being "plain." One of the players "breaks," by striking his ball from a half-circular space marked behind the baulk line opposite to where the red is spotted. If he hit the red and drive is into any pocket he scores three, or should sown ball, after striking the red, roll into a pocket, he also scores three, both balls resting in pockets after a stroke counting six to the striker. The red is replaced on the spot every time it is holed, and can be shot after the most of the ball. Should a miss occur by the player in possession of the ball, one is scored by the opposing stroke counting six to the striken. The red is replaced on the spot every time it is holed, and can be shot at from the position in which his own ball comes to a standstill. Should a miss occur by the player in possession of the ball, one is scored by the opposing player, who thereupon takes strike. Should the striker's ball, on a miss, enter a pocket, three is scored by bis antagonist, but the lost ball remains in the pocket, leaving only the red to be played at. It is usual for many billuard players to give a "miss" at the start, in order to get two object balls on the table for subsequent play; this is done by the striker playing his own ball out to a cushion intentionally, to roll back within bauls, when the white cannot be played at by the player who follows until the red shall first have been hit. This is giving one away to open up the game. With one white and one red to aim at, if the striker with his own ball his both object balls he makes a cannon, which counts two. The red ball entering any pocket as a resultant of a cannon shot counts three additional to the striker, for the winning hazard, the white being looked eventually, having first struck the red, whether a cannon be made or not, counts three for the losing hazard, when the striker must make his next shot from baulk. It is possible for ten to be scored from one stroke, by striking the red first, making a cannon, and holing all the balls; but this has the disadvantage of compeling the striker to break again from baulk, with only the red as objective, the opponent's white being out of play until the striker fails to score. Cannons are made frequently by players from strokes in which a cushion is struck at a taugent before the object ball is hit; and the great thing in the game is to score as may as possible, leaving the balls in a position more difficult to score off after the impact. The striker's ball is limpelled forward by a distinct strike with the cue, the thin effect of the striker's ball, and also for thos a mined at and moved by the stro for the striker's ball, and also for those aimed at and moved by the stroke. The player's break continues until he falls to score, when his opponent goes to the table and continues the game. Generally a game is for rame and commues the game. Generally a game is for 5c or no "up," the player first having the agreed upon number marked in his favour whining. Four players, two against two, may have part in a game of billburds; the "plain" and "spot" partners taking stroke

the "plain" and "spot" partners taking stroke alternately.

Pool. This is a game on the billiard table, all of various coloured balls, several players may participate, playing in the order in which, by the employment of various coloured balls, several players may participate, playing in the order in which the colours appear on the scoring board, and each player plays on to the ball perceding him. Every time a ball shot at is holed, the owner of it in the game loses a "life," and the striker thereafter plays at the ball nearest on the table to his own until he fails to hole a buil. The striker, if he make a losing luazard—that is, if his own ball should run into a pocket—forfelts a life. Each player has bettee lives; and when all but one player has lost these, the survivor takes the "pool," or, two being left in with an equal number of remaining lives may divide the stakes.

Snoker is a modification of "Pool"

Pyramids is played with fifteen red balls, placed pyramidiculy, by the aid of a light frame, near the head of the table, the apex towards the first striker with the white. He of two players who holes the greater proportion of the red balls wins the game. Every time the striker fails to score or holes his own ball, the adversary plays with the white, from baulk if lost, or from the postition in which it remains on the table otherwise. The maker of the losing hazard, in addition to viciding strike has to replace a contract lost, of from the position in which it remains on the stable otherwise. The maker of the losing hazard, in addition to yielding strike, has to replace a captured act bail on the table, or owe one to his opponent should he not have scored. Variations of this method pyramid play, in which many billiard ruies hold good, admit of three or more players participating.

Bilind Han's Bull, a merry, romping game in which one, blindfolded, has to catch and name some other player, who then becomes "blind man."

Bowls, Table. A parlour adaptation of the game of lawn bowls, miniature bassed bowls being shot along a polished table from a grooved tilt shoot.

Boxing a combined sport and exercise, when proper gloves are employed, is a useful and commendable art, incubating the principles of self-defence and the scientin u. e of the fists in a just quarrel.

Brag. (See Cards)

the scientin u. e of the fists in a just quarrel.

Brad. (See Cards.)

Brdge. (See Cards.)

Brdge. (See Cards.)

Brdge. (See Cards.)

Buz" is a forfeit game for children, in which the seated company count audibly from one upwards, the participator whose turn comes at any seven or multiple of seven having to substitute the word "Puz." Thus, instead of "seven," "Ourteen," "seventeen," and so on, "Buz" must be called out or forfeit paid.

Caledonians. (See Dancing.)

Calisthenics is a term comprising numerous exercises designed to give mastery of graceful

Callsthenics is a term comprising numerous exercises designed to give mastery of graceful muscular motion and bodily carriage, solus or m concert with others. Its systematic cultivation, with proper regard to the strength of the subject, is good atheiteally, and as a mere matter of pastime also. Competent guidance in calisticutes is desirable.

Cannon Game. (See Bagatelle and Bil-

liards.)

## CARDS.

CARDS.

Cards for playing with in various ways are of very ancient vogue, in Fast and West, and have changed a good deal as to device. Those in present use are inty-two to the pack, in four suits of thirteen each; club and spades being black prated, hearts and diamonds red. Every suit consists of three court cards: king, queen, and knave (or jack), and ten aumbered cards. The latter are marked win from one to ten printings of the suit device, the higher being of the greater value in most games, save that the acc usually talkes precedence of all, even the court cards. The following paragraphs cover the leading games with playing cards.

All Fours. Six cards are deak from a complete pack, the thirteenth being turned up to indicate trumps. The hands are played, the greater capturing the less in each trick, and trump cards those of any other suit. The points are High, Low, Jack, and the Game; the latter being the guerdon of the possessor of the greater numbeof counting cards, their values running: accs, four; kings, three; queens, two; lacks, one; and tens, ten. The point High goes to holder of the highest trump dealt, Jack to the retained or not.

Baccarat. A gambling game, illegal in Britain, which one player takes the bank against several

whether retained or not.

Baconarat. A gambling game, illegal in Britain, in which one player takes the bank against several others, doubling what they stake. Two 'tards are dealt to each player, the holder of the highest hand taking the stakes, the banker's hand being "trumps," which are of greater value in the game than anything of other suits. All the court cards are worth ten each, the rest in accordance with the pips.

Basset. Another cambling wame, played between

Bassac. Another gambling game, played between a banker (who has an assistant, to supervise the local card) and the punter, opposing the bank.

Besique. This requires a pack of cards for each player, all the low cards from six downwards being

dispensed with. Four or three may play the game, though two is best. The cards being shuffled together and cut, the dealer gives eight cards to his opponent, and the same number to himself, the seventeenth card being turned up to lifelicate trunups. Then the non-dealer takes a card, to which dealer plays, the lest card winning the trick; play proceeding as at whist, save that ten will take any card except acc. The winner of the first trick takes the top card from the undealt remainder of the jack, his opponent takes the next. Then another trick is played, and another card taken by each and so on till the pack is used up; whereupon the remaining eight are played out in whereupon the remaining eight are played out in tricks, till all are lost and won. Scoring depends on the combinations held and declared after each trick, the player first reaching 1,000 being accounted the winner. Thus, the winner of a trick who thereby becomes the holder of all four aces registers 200 points becomes the holder of all four aces registers soo points towards game, four kings 80, four queens 60, four knaves 40. Simple marriage (king and queen, same sunt) scores so points, royal marriage (king and queen, trump suit) 40; bézique (queen of spades and knave of diamonds) 40; double bézique (the two queens of spades and both knaves of diamonds) 500; sequence (ace, ten, king, queen, and knave of trump suit) 250. Seven of trumps played or turned up reckons 10, taking the last trick to, and finally every ace and ten in the captured tricks counts to to the taker.

Blind Hookey is a simple game of chance at cards; comprising cutting and speculating as to the turn-up.

turn-up

**Boston** is like whist, played four-handed, save that the last card is not turned up to make trumps. The player declaring to win most tricks leads and The player declaring to win most tricks leads and makes trumps, providing always that he nay, if luconsider himself unable to win more than seven, ask for a partner. On being accepted, the two play against the remaining pair, as at whist. Also any player, there being no declaration above seven made, may undertake, solus, to get a number of tricks less by two than the provisional caller; and, if there be no partnership, the three players not having called endeavour to frustrate the play of "Boston," the solus high declarer, or "whist," the low-caller who deprives him of lead, if declarer or partners achieve their undertaking they take the pool; if they fail they are mulcted. Dealer subscribes half as much more to the pool as the other players. "Boston" or "Bosston," very much resembles the game now known as "Solo Whist."

Brag is a game in which three cards are dealt to

Brag is a game in which there cards are dealt to each player. A declaration is made by one to win two or three tricks, and if this "brag" be not exceeded by the players to his left, he proceeds to make the declared number and win, or to fall and lose.

Bridge is a development of whist, with complica-tions, and is very popular in many circles. There are four players, and in each hand the dealer's partner takes no part in the play, but exposes his cards for the dealer to use as in dummy whist. Trumps are declared by the dealer or his partner (dealer having first option), without consultation, or they may elect to play without a trump sut. The tens as well as the court cards are without consultation, or they may elect to play without a trump suit. The tens, as well as the court cards, are honours, but honours do not count towards winning the rubber, being added to the trick score afterwards to determine the value of the rubber. There is a score for winning "little slam" (little slam" (little slam" (little slam") (all the tricks); also for "chicane" (inolding no trump in a hand). The scoring of points is an elabounte affair needing special instruction.

### BRIDGE SCORE. Score by Tricke

= £	or each	Trick,	bove Si		•	are trumps,
4					*	10
6	••	••	••		<b>•</b>	
8	**			••	Ø	**
12	••				"no trumps."	

#### 0 Three Honours = . 54 45 8 E 16 Four Honours = . . . 16 32 40 64 Five Honours = . . . . Four, all in one hand = Five, four m one hand = TO 32 36 40 16 18 60 Five, all in one hand = 20 Chicane = . . . . . .

No Trumps (Sans Atout). 3 Aces 30 " in one Hand = 100

Grand slam, 40; little slam, 20; rubber, 100. The game is finished when 30 has been won by Tricks.

The game is finished when 30 has been won by Tricks.

Casino is played by two, three, or four persons with an entire pack of cards. Four cards are dealt, to each player, and four on to the table, face upwards. Then the players in turn match what they can from their lands on the cards on the table, face upwards. Then the players in turn match what they can from their lands on the cards on the table, by pairing or taking two or more up, the pips of which will together equal those on one card held by them. These they win and turn down alongside them. If they caunot pair or match they must lay a card down. When the first deal is played out, mother deal round is made to the players until all the cards are exhausted. The game is to capture all the cards are exhausted. The game is to capture all the cards you can, and as may tens, spades, and aces as possible. High (or Greet) Casino—possessing at the close of a hand the ten of damonds (two points); I low (or Little) Casino, the deuce of spades (one point). "Cards" is when players (or partners) capture a greater share of the counting cards than the opponents, which reckons three points. Spades" is having the inajority of that suit, one point. Aces each recton for one point. Should all these eleven points belong to one player (or pair of partners with four playing), that number is marked to them and the game won. Anything held against the reproductation bands in oursempe hands is dutieted.

partners with four playing), that number is marked to them and the game won. Anything held against the preponderating hands in opposing hands is deducted, and the game proceeds mittl concluded by eleven a being scored by one player or pair. "Catching the Ten" is a simple game, re-sembling "All Fours" and "Don Pedro," except that the greatest point considered is the capture of the ten of trumps by the ace or a court card of the same suit. It will take any other ten, and, of course, any card of a roos-trump suit.

It will take any other ten, and, of course, any card of a non-trump suit.

Connexions. A rather smitquated game for three or four players; dealing out egilt cards should the greater number engage, and ten if the smaller. Card values and manner of play as at whist, save that diamonds are always trumps. The "connexions" to be made are the two black aces, the ace of spades and king of hearts, and the nece of clubs and king of hearts. The player of the first card makes the "connexion," and secures it, unless trumped by a following player. The securer of the hast-mentioned "connexion" and the winner of the majority of tricks take an equal amount from the pool; the maker of the second "connexion double what goes to either of these; and the fortunate maker of the first-mentioned "connexion" double what the second winner withdraws. the second winner withdraws.

the second winner withdraws.

Cribbage. Dealer serves oft either five or six cards from an entire pack. Two cards are thrown out by each player, but not exposed; then a card is turned, and this counts with the crib (which belongs to dealer), and also with the hands of the players. It dealer), and also with the hands of the players in discarding, and in play, the endeavour is to make as many combinations of fifteen, pairs, and runs, as many combinations of fifteen, pairs, and runs, as possible; and "flushess" also count, i.e., all the cards held being of one suit. The court cards are valued at ten each for counting, and the rest according to the number of their pips. Sixty-one points is game when two play at five-card "crib"; twice round the board at six cards. There are further points in the game, for which instructions should be obtained.

Bon Padro is similar to All Fours and "Catch-

ing the Ten," except that the capture of the five of trumps, which is "Don," is the chief point in the game, and that all the fives count in rectoning the hands as well as the tens, aces, and Court cards.

Dummy whiat is Whist (q.v.) with three players only, the fourth hand being taken in turn by the dealer, and played in addition to his own hand, against those of the other two players. "Dummisk" hand may be exposed on the table, or otherwise, as arranged.

against those of the other two players. "Dummes hand may be exposed on the table, or otherwise, as arranged.

Boarés (sometimes called "Distord"), is played with the kings, queens, knaves, aces, teen, nines, eights, and sevens of the pack ranking in value as named; and sometimes two packs are employed. Five cards are dealt to teach the term of the many play), and they be distording and changing for fresh cards from the "talon" or undent portion of the cards for play on proposition, and the game—which is of gambling notoriety—has other complectations.

Enchrs is a modified form of Ecarts, the master card being the "joke," the second master card of the same colour the "right bower," the next, the other knave the "left bower," the next, the other knave the "left bower." To "euchre" the opponent is to take three out of the five tricks in a hand. A gambling game, popular in America.

Faro, a speculative game, in which players oppose the banker, at a special table, using the entire pack; odds being in favour of the bank.

Loo is a round game in which a number of players; and it may be "hinted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunted" (in which those "looked" pay into the pool counters to the value of their original stakes) or "inhunt

Lottery is a game in which players speculate on their card as against those of their opponents, and then play for the stakes and the pool to which all contribute. In parts "lottery" resembles Rouge at

877

Matrimony is played with counters and the full pack, the dealer staking what number of counters he or she likes, on each of the five chances in the game, or she likes, on each of the five chances in the game, and tharest [5 to 14 may play) placing one less plece on the chances. Two cards are dealt to each, and then a third turned up to every player. The ace of diamonds turned up to any player clears the pool in that player's favour. The chances are:—Best (ace of diamonds, turned up); Matrimony [king and queen]; Confederacy (king and knaye); Intrigue (queen and knaye) and Pairs (the highest). Should any of these combinations be held in more than one hand, the eldest hand takes; and failing the holding of a chance, the hand takes; and failing the holding of a chance, the stakes thereto allotted go forward to the following

stakes thegeto allotted go forward to the following deal.

"Nap" or "Napoleon," Five cards dealt singly to each player from full, pack. Player or dealer's left "declares" to win what number of tricks be thinks he can—two, three, four, or "Nap' or Napoleon (the whole five) or, with a poor hand, "passes." The next player has the privilege of calling higher and taking the lead in that case, unless he himself be over-called. The first card played by caller constitutes trumps, Should the leader "make" the number of tricks he declares he receives stakes as previously agreed from his opnonents; failing he "pays out" accordingly. In a "Nap" declaration the "pay out" for failure is generally single, and for success double, but the arrangement may be varied. With an exceptionally poor hand "Misers" may be called by any player and take precedence of all else (unless another calls three). Here the caller's task to avoid winning any trick, and forfeit or gain are usually as for three tricks. It is a favourity fast gambling game for small stakes with many card players.

Old Maid is a simple round game. From the pack a single card—generally a black queen—is extracted, and the rest dealt round, one at a time, to a number of players; who pair and place on the table all they car, and then in turn draw a card from the next hand to enable them to complete the pairing. The first to pair all his or her holding wins; and one left with the odd card at the end is "Old Maid." An odd overplus may be left on the table after dealing the rounds to be drawn from by the last two or three players left in.

Ombre, a Spanish card-game, played by two, three

or five (generally three) persons, once popular in Britain,

now obsolete.

now obsolete.

Patience is a game played singly with an entire pack, though several persons, with a pack cach, may play simultaneously and endeavour to beat each other "on time." There are several variations of the game, the object of which is, by dealing from the shuffled pack all the cards, one by one, to get them into sequence or ace at the bottom to king at the top, in all the suits, as quickly as possible. When the top card of any tentative pile cannot be moved on to one of lower value in another heap, the cards not properly disposed of are taken up, redealt, and new manipulation adventured. Should an unpossible "block" be arrived at, the player must commence all over again.

adventured. Should an unpossible "block" be arrived at, the player must commence all over again.

Planet is a complicated game for two, the cards from dence to six inclusive of each suit being dispensed with. Ace ranks highest, counting 11, the court cards reckoning 10, the rest according to the number of their pips.

Twelve cards are dealt to each player, the pips. Twelve cards are dealt to eacn payer, use eight remaining forming stock, to be drawn from whethe cards of least value have been discarded by the players. The main chances striven for are Repique. players. The main chances striven for are Repique, Pique, and Capot, worth 90, 60, and 40 respectively towards the full game of 101 points. These and the other features of Piquet require lengthy explanation, as given in handbooks of the gaine. Play is as at whist, but with no trumps.

Poker is a game of hazard, with numbered "chips,

Pokez is a game of hazard, with numbered "chips," all the cards, and not more than six players, greatly in vigue in Americada and popular at many British clubs. It was a parlour pastime, because of its gambing associations a parlour pastime, because of the gambing associations a parlour pastime, because of the part of the parlour is a round game for a number of players, similar in many respects to "Matrimony" (g.w.) the chances speculated upon being Pope Joan nine of diamonds). Matrimony king and queen of trumps, Intrigue (queen and knave of trumps,) ace (of trumps) and Game (first out); "pools" being made at the commencement on a special board in respect of each of these points, "Stops" are a prominent feature in play, and the eight of diamonds is wife/rawn from the pack before dealing begins. For "Pope Joan," once a very popular social pastime, some instruction is desirable.

Put is akin to "Brag," but the "trays" are of highest

once a very poquar social paramie, some instruction is.

Put is akin to "Brag," but the "trays" are of highest value, deuces next, then accs, with tife rest, from kings to four downwards, as at Whist. The entire pack is used, and two or four can play. Three cards only are dealt separately to each player, and there are no trumps. If the non-dealer be dissatisfied he may throw up his cards, losing a point. The adversary, calling a point, or he may playen and vin or lose. Two tracks of three taken by either player scores five points and wins the game, but one trick each, and the third a de county or the state of the control of the state of the county of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state

Quadrilla is an old-fashloned and vay involved game for four players, with forty cards, the tens, nines, and eights being rejected. Its numerous terms and rules require lengthy demonstration.

Quinze is a simple game of chance. The dealer, after shuffling, gives his adversary and himself a card each from the full pack. The non-dealer is then antitled to go on drawing from the pack until the cards he holds count fifteen or nearest thereto, when he wins; but if he overdraw he loses, to least the dealer does the same, when the game is drawn. Thus, being dealt, say, an eight, he draws seven and wins; but,

drawing six, he "stands" at fourteen. The deales must then draw; and should he hold a tenth card and draw a five, becomes victorious. Drawing six, however, would coaktitute ovegainf and defeat.

Rouge at Noir, played with six packs of cards, on a table covered with green cloth and marked in red and black diamonds, is a Continental gambling game of an exciting nature, in which high stakes are often involved, with heavy odds against the "punter," and in tavour of the "bank." This hazardous game is also called Trente et quarante and Trente-en.

Snap is one of numerous childshe round games, in which cards of several (usually thirteen) different pictorial devices (four of each pattern) are dealt out surgly and successively to the players, one being laid centrally on the table after the first round is dealt, and all face uppermost. Whoever of the players first cries "snap" upon the facing of any card of similar design to that on top of his or her own pile or that of any other player, or in the pool, appropriates the pile called; in the latter case sweeping the pool also. The player eventually holding all the cards takes the pool at the finish, it being replenished by the deposit of further stakes after each depletion until the cards are out, Nuts may be employed as stakes by the juvenile players of this merry rame, which is subject to stakes after each depletion until the cards are out. Nuts may be employed as stakes by the juvenilopayers of this merry game, which is subject to variation. In Snip Snap Snorum the cards dealt to the players are held in their hands—an ordinary pack of playing cards being used—and played in turn. When the following player can match the card played before him he does so, cries "Snip," and takes the card and a "forfeit. A third player, matching, cries "Snap," and does ditt, while, on rare occasions, a fourth may call "Snorum," and profit accordingly. A player having lest all his, or her, stakes—they start with an equal number of counters—and cards, is out of the grane. Ultimately, the pool becomes the property of the player holding out longest.

Solo Whist is a game in which the four players

the pool becomes the property of the player holding out longest.

Solo Whist is a game in which the four players act melependeutly, unless there be "proposal" and "acceptance," when the two partners play together against the other two. Play is as at Whist, honours, however, not being counted. The cards are all dealt, in four threes and the final round singly, dealer facing his last card to indicate trumps. The player on dealer's left may then "declare." If he, with a fairly strong hand, thinks he and a partner could make eight tricks, he calls. "I propose," and may be accepted by any one of the other players in their turns, when the game proceeds, should there be no higher call. He may, however, call "Solo," which is a declaration that he intends to try to win five tricks against the combined efforts of the other three players. He may go higher and call "Mixtre," which means that he undertakes not to win any trick, and in this call there is no trump suit. He may declare still higher, called "Abondance," and, to make it, must win nine tricks, making any suit he chooses to denominate tracks, in the procedure of that denominate tracks, making any suit he chooses to denominate tracks, making any suit he chooses to denominate tracks, making any suit he chooses to denominate tracks, making any suit he chooses to denominate tracks, making any suit he chooses to denominate tracks, making any suit he chooses to win nine tricks, making any suit he chooses to denominate truips, always providing that a call of Abondance on trumps would have precedence of that call in a non-trump suit, and take from him the lead. A very poor hand does not "declare" but "passes"; though the first players to call, having "passed," may accept a proposer, should the other players not do so or make a higher declaration, the declarations ranking from Abondance downwards, the lead going by rotation. The stakes are raplicated livers, naview out to ranking from Abondance downwards, the lead going by rotation. The stakes are graduated, lowers paying out to the other players on failing to achieve their declaration, and receiving upon accomplishing it, with additional winnings per trick exceeding the declaration, and forfeits for each trick declared and not taken, and for winning any trick after calling Misters, of the many states of the state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont

respectively, though there are no under tricks or over tricks to be paid for.

Speculation is a lively round game, in which seven to thirteen may participate—"the more the merrier"—with a complete pack and counters. Three-

cards are dealt to each player singly from left, and then one—which belongs to dealer—turned up for trumps. This may be speculated for by offers of counters, before or after the turn-up, and sold to the highest bidder. Stakes are placed in "the pool," the dealer usually contributing double the number of counters paid in by each of the rest. The next player, or in the event of the card having been sold the next blayer of the methers that the card and the second to the card having been sold the next player or the total card, which player to the purchaser, then turns his top card—which must not have been looked at by him or anyone else must not have been looked at by him or anyone eiseand if it be a higher trump than the turn-up, he may
sell it as he chooses. The player to left of new purchaser then does ditto, and when all have been
discovered, the possessor of the highest trump—by
purchase or otherwise—in the deal clears "the pool."
The game is continued similarly by further deals until
the pack is exhausted,—the cards counting as at
Whiet—the highest trump in each deal taking "the

pool,"
Yingt-Un is like Quinza (e.v.), except that the
number to be made up by cards drawn after the first
dealt is zr instead of 15; and the acc counts either as

dealt is 27 instead of 15; and the ace counts either as one or eleven, as he wite gets it chooses.

Whist is accounted the best of all social card games, and is played according to rigorous methods and strict rule by four persons—two in partnership against the other two—and the complete pack. The partners sit at opposite corners of the table; and, the cards having been shuffled and cut, are dealt out cards naving been snimed and cut, are deatt out singly until exhausted, the dealer turning up his own thirteenth card to indicate trumps. The cards are then taken in land and played out in 13 tricks of four each, the player on the left of the dealer hat high first lead; and the winner of each trick leading off in the next. Ace is highest card—except in cutting when it is reckoned lowest—king, queen, and knaye the next. Ace is highest card—except in cutting, when it is reckoned lowert—king, queen, and knave rank next in order, and then from ten downwards. The higher card of any sut takes the lower, miles the rick be trumped by a player unable to follow sun; and the tricks are gathered up by one of the paid winning them, as made. Each trick over six taken in a hand by two partners counts one point to them towards the ten which makes game. The holding of "honours"—the ace and count cards of the trump six—counts towards game, if a preponderance be held by either pair; that is, if the partners between hem are dealt three "honouns," they score two points, and should they have all four they count four respect of such holding. "Honours" counting before tricks, a pair of partners holding three or four, having reached a score of eight, may "call" them and win thereby without further play. It is usual for the holder of two honours at such a point to say to his partner, "Can you one?" Should the answer be "Yes!" the cards are produced and the game triumphantly ended. When the "nine-hole" is reached, "honours" do not count with the players in that position. There are penalties for "revoking," i.e. "honours" do not count with the players in that position. There are penalties for "revoking," i.e. "honours" do not count with the players in that position. There are penalties for "revoking," i.e. "honours" do not count with the players in that position. There are penalties for "revoking," i.e. mitting to "follow suit" with a card of that suit in hand, and for other infrangements of the elaborate rules of this scientific game, which requires playing with skill, deliberation, and perfect understanding between the partners. It is very engrossing, and admits, consequently, of no general conversation. Dummy Whist (g.v.) is resorted to when four players are not available.

**Estema** as a game following the principle of "Bézique" (g.v.); played, however, with a complete pack of cards and a fifth suit (either spades, clubs, hearts or damond

pack of cards and a fifth suit (either spaces, clubs, hearts or damonds) taken from a wecond similar pack and shuffled together amongst the four suits of the first, making 65 cards for use in all. Scoring is for combinations obtained and the tricks won, and special markers are requisite. These, with the rules of the game, are procurable at most of the toyshops.

game, are procurable at most of the toyshope.

Chequers or Checkers, an antique game similar to and the origination of Draughts (q v).

Chess. A highly scientific game of calculation, combination, and concentration, played in Britain now on a board divided into  $6_t$  squares, black and white alternately, with to pieces, or men, coloured black (or red) for one player and white for the other. These are differently carved, and represent for each, one king, one queen, two bishops, two knights, two cartles or

rooks, and eight pawns. These have variant values, and the moving of each is regulated by strict rule, the object of the players being to checkmate the hostile king, which alone cannot be captured and taken from the board. Chess requires deep study, the problems possible thereat being of endless diversity and ingenuity. Personal teaching by an accomplished player is desirable.

Goddam is a curious game in which three persons seated at a narrow table manipulate in their hands, held together beneath it, a "piece" (dice or small stones being used) and then bring up the hands, closed smartly in a row, the "piece" being concealed in one. Three others, facing the first three, then have to guess, one of them touching the hand in which he or she

Inree others, sating the first three, then have to guess, one of them touching the hand in which he or she considers the "piece" to be hidden. When this is found, the opposing trio take the "piece," and the first three become the guessers. Those making the least number of incorrect surmises win; and the play is accompanied by much facial distortion, badinage, and attempts to coving the judgment. An incorrect and attempts to conloved by a disclosure of the "piece" from one of the other five hands, and a new disposition

of it beneath the table.

Consequences. A parlour game, in which the players, seated at tables, write down, without collusion, players, seated at tables, wrie down, without collusion, parts of a brief inaginary cocial story on indicated lines; each folding down what they write and passing on the paper to the next contributor to continue the narrative, until the sheet, on unfolding upon cop-pletion, contains the work of as many different writers as are playing. The characters introduced may be present in the company or not, as pre-arranged. Ten, as are playing. The characters introduced may be present in the company or not, as pre-arranged. Ten players are required for the following specification of the "Consequences" game, which may be ingeniously varied. First player writes:—An adjectival description of a lady; second, a lady's name; third sets down that the adjectival lady unknown met an adjectival—hazarding the suitable description—gentleman; fourth the name of a gentleman; fifth, the meeting place of the name of a gentleman; fifth, the meeting plage of the two; swth, when the meeting occurred; seventh, what the lady said to the gentleman; eighth, his reply; nunth, the Consequences; tenth, what the world said. The composite story might read at the conclusion thus:—(1 The gushing (2 widow Flighty (3) met silly (4) Lord Softhead (5) in the gloaming (6) down a bady lane (7) She said—" Kiss me quick, love" (8) He said—" Does your mother know you're out?" (7) The Consequence was—trouble for two (10) And the world said." Just what we expected." "Good fun may be got out of this.

Court Tennis may be played in any large rect-angulation or high-walled court, with a netting, three feet high in the centre, stretched centrally at a convenient distance from the walls, the passine being similar in its main principles, to "Lawi Tennis" and "Racquets," described under "Outdoor Sports"; but "Racquets, "described under "Outdoor Sports"; but highly technical at to detail of play and method of scoring when the "rigour of the game" is observed. The construction and marking out of a regulation court with roofed "pent-house," "dedans," "galleries," grille," "tambour," etc., is a matter for the expert, and scientific tensis-play can only be acquired by long practice under rooper instruction. practice under proper instruction

practice under proper instruction

Dabs (sometimes called "facks," "Jags," and
"Knuckle-stones" or "Knuckle-boutes") is a childish
game—of very high antiquity—consisting of bouncing
a cound pot "Jack" marble on a hard stone, and
pleking up with the hand, or laying down, during the
bounce, one, two, three, and then four square stones
or knucklebones, squarely and afterwards to estimate

or knucklebones, squarely and afterwards to estimate or knuckle-bones, separately and afterwards together in different combinations, keeping up an audible count;

in different combinations, keeping up an audible count; the object being to continue as long as possible without failing to catch the "Jack" before the picking up or laying down operation is neatly accomplished.

Dances. Dancing, or the art of graceful from movement with concurrent manual and bodily action, to the accompaniment and time of suitable music, particularly when in harmony with the motion of others, forms one of the most fascinating pastimes for the young of both sexes in this and every other country. Pursued under suitable social conditions, it may be as marmless as pleasurable. The quick and merry dance is most favoured by the sprightly in cool and spacious

assemblies; the slower and stateller measure in warm climes and well-filled ball-rooms. We can only briefly glance at the more popular dances here. Their proper climes and well-nied ball-rooms. We can only briefly glance at the nore popular dances here. Their proper execution requires tuition. In the Barn Dante, or Pas de Quatre, the partners keep together throughout. The Caledonians is a species of Quadrille, in five figures, ending with a grand promenade. The Coillon is, combination of weltzing round, in couples and to partners, with the presentation of favours. Country Dances take the form of two rows of dancers, say whelve to fourteen couples, standing opposite. These dance in pairs "down the middle" and up again in turn; with other movements—varied in England, Scotland, and Ireland—and accordant to the music. Six Roger de Courtley, or The Haymakers, is a pretty country dance, with graceful bowing and curtseying interludes. Galop is a simple dasset & deux temps, quick and lively, in which the couples turn round as in the Polka and Vialts; it is adapted for the opening conclusion of a ball. The Gavotte, now out of fashion, was a modified Minnet, for one lady and one gentleman, with much advancing, retiring, and obeslance, conclusion of a bail. The Gavotte, now out of fashion, was a modified Minute, for one lady and one gentleman, with much advancing, retiring, and obeisance, slow and accelerated, to a lively air with repetitions. The Masurka is animated and suitable for participation in by four or eight couples; at times joyous, at times grave, it comes of Polish origin. The Polka, Masurka, resembling a slow Polka, is danced by single couples. The Minute, danced to three time, is all elegance and graceful motion, with dignified curtaeying golore, fitted for the grandest of costume bails. The Polka, of Bohemian extraction, is a dance a guarre tempt, performed with spirit by separate couples, is the old national dance of Poland, wedded to music a trost temps, with peculiar syncopation and final failing cadence. Quadrilus are quiet and enjoyable dances, borowed from France, engaged in propert by eight persons the couples. The Redewa is a particular favourier in this tast. The Redewa is a round dance, slower than, but similar to, a Polka, and in some respects like a Mazurka opening with positions as for a Walts. It goes well after a Galop. Refs are of Scottish origination, brisk and picturesque, and may be danced by one couple or more in conjunction, to a quick measure, six quavers or four crotchets in a bar. Revend Dancer are those errormed by separate couples in progressive circular more in conjunction, to a quick measure, six quavers or four crothests in a bar. Rossná Dances are those performed by separate couples in progressive circular movement round the room, as distinguished from set square dances comprising complex figures. Rossná Dances, which are preferred by the majority, include the Walts, Polka, Schot'niche, Galop, Massi, ka, and Redowa. The Sarahand, a Spanish dance, is sprightlier than, but not unlike, the Minned. The Schottische was originallysa German pessant dance, performed in couples, with glissade steps, springs, and double hops in the round movement. A Spanjab Dance-distinct from the Saraband—is performed to slow Waltz music, with the Vales step, an even number of couples nusic, with the Valse step, an even number of couples ranging in parallol lines, as in a Country Dance, at the start; dancing simultaneously down the line, retiring, changing places, and executing other harusnious movements in turn. The Varvanians is a repetition of gyrations, pauses, advances, and passes to right and left in Palka steps. The Waltr is a succession of graceful curves, with easy and graduated but undulatory and rythmic action, reciprocal as between the partners, the swaying and gliding motion possessing much charm when perfectly executed in the requisite direction, to music in triple time. The varieties of all the dances referred in young are numberless some direction, to music in triple time. The varieties of all the dances referred to in vogue are numberless, some with novel introductions which lend them fleeting popularity, such as that accorded to 2the "go-as-you-please" Washington Post; others combining Washington Posts and Polka in a capitvating way, as in the Rossidabout, For general favour, as a square dance, the Lancers holds its own well, especially when executed with the "nitration figure" finale,

executed with the "firstation figure" finale.

Dice are small white culies, marked on the six sides
with spots numbering from r to 6. One or more of
these are shaken up in and cast from a wooden cup,
the number of spots coming uppermost on the dice
constituting the throw. Camblers used to stake money
on their hazards extensively, but in this country

dicing is now, fortunately, not favoured, either by public preference or common law.

Dominoes. A game played by two or more persons with "worfty-eight stones," or pieces of oblong bone, itsery, or wood, of uniform size, dyed black, faced in white, and dotted with black spots to indicate every possible numerical combination, from double-six to double-blank, a black central dividing line being marked from side to side of each. The game consists in matching and Johning one end of the pieces played with one end of another held by the following player, those engaged playing alternately. In the sumplest form of domino play, he whose hand of five or seven pieces is first played out wins the round; other games consist of a combination of this and, the counting of all the fives and threes formed by the two

or seven pieces is first played out wins the round; other games consist of a combination of this and the counting of all the fives and threes formed by the two counting of all the fives and threes formed by the two ends of play to the score of the player who makes them. Each player not only endeavours to facilitate his own scoring, but to frustrate that of his adversary. When one has played his final piece, he is "domino." Some boxes of dominose extra du put doulle-nime.

Draughts. A game played on a board made and marked as for chess (a p. d., with twelve black and treelve white discs or "men." One player takes the black "pieces," the other the "white," and places them on the three rows of white squares at his end of the board. In turn each moves a "piece" forward, disgonally, either to left or right, one square at a time, keeping to the white squares only, the object being to capture or hem in the "pieces" of his opponent. Any "piece" advanced to the further roy on the antagonatic side of the board becomes a "king," and must be "crowned," when it may be moved by the player backward as well as forward. A "piece" left after a move capturable by an adversary must be taken by the latter, or he is "luffed," i.e., he loses the "piece" Capture is effected by leaping over an opposition "man," or to a vacant white square beyond, upon the line of march, from the white space immediately in front; but no player can advance by skipping across one of his own "pieces." A continuous series of deaps may be made at one movement, should blank squares adout. Crowning consists of the viacure of a surrendered "niece" "pleces." A continuous series of leaps may be made at one movement, should blank squares admit. Crown-ing consists of the placing of a surrendered "piece" upon the "man" which has become a king. He who remains in possession of one or more pieces, crowned

remains in possession of one or more pieces, crowned or uncrowned, upon any white square when his opponent's score is exhausted, wins the game.

**Durnb-bells.** The manipulation of these, of suitable weight, and of the longer separated allied "Bar Bells," with moderation and regularity, is at once a useful exercise and an agreeable pastime, calculated to keep the muscles in condition.

**Dutch Pins** is a form of alley-tail game akin to "skittles," consisting of the knocking down, in a few throws as possible, from a marked distance, of wooden "pins" placed in position upon a frame. The missile is usually cheese-shaped, lighter than that employed at "skittles," as also are the "pins," nine m number.

Fencing, with "folls"-not much needed, nowadays, as a protective accomplishment—may be practised advantageously as a pastine and a physical exercise, under competent tuition, by either sex, inducing, as it does, suppleness of limb, quickness of eye, and muscular strength.

muscular strength.

Five Stones. Another name for the marble and square stones bouncing game "Dabs" (p.v.).

Forfeits are an ansusing feature of many pleasant parlour pastimes, same little article—such as a handker-chief—being deposited by the player failing to accomplish a set task—as in guessing games—or committing a breach of rule, to be redeemed by the performance of a penalty at once as harmless and conical as possible, imposed by the company. To blow out a candle whilst blindfold is an amusing example of forfeit.

Go-Bans may be pleaded as a state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o

Go-Bang may be played on an ordinary Chess or Draught-board, the object being to get five "men" as row, straight or diagonal, with no unoccupied space or "piece" belonging to an opponent intervening. One plays white, the other black, and eight or more "men" can be used by each player; these being placed one at a time in the endeavour to attain the desired combination, or baulk the opponent. When both sets

of "men" are down before either player has got his five row, each may move any "men" of his own alternately one space, whenever there is a vacancy; the player who first places his straight unintegrupted five wns. The Japanese play this gime on a board osmall squares, 324 in number, with anything up to 162 counters apiece. Three players with 108 "pieces" each, or four having severally 81 "men" at command, coloured distinctively, may take part in the extended

Go-Bang.
Guessing Games for the parlour and children's
parties may consist of conundrums, charades, or other
similar exercises of the wits, the correct guesser becoming interrogator. Or there may be attempts to identify fellow-quests, when there is a large assembly, by the eyes or hands alone; in the former case two or three persons being seated at a table, concealing them three persons being seated at a table, conceaning them below waist, with newspapers enveloping their heads and shoulders, silts being cut to show only the eyes; and in the latter the lands being extended over a screen for inspection. Identification is more difficult than might be imagined, and forfeits can be amusingly imposed for wrongful guessing.

imposed for wrongful guessing.

Gymnasticas, contemporaneously with intellectual culture, provide commendable pastime and beneficial exercise. Gymnastic games develop and keep the muscles in trun, whether practised with or without apparatus; and, provided that the gymnashum be arry and properly appointed, and that the incentive of competitive endeavour does not induce the overtaxing of the strength, suitable exercises should be regularly gone through by the young of both sexes. Rings, wands, Indian clubs, dumb-bells, bar-bells, etc., nay be beneficially employed; parallel bars, horizontal bars, the swinging trapeze, the vaulting horse practised upon; fencing and all manner of physical exercises and indoor games calling for the exhibition of strength and dexterty, including jumping, bending, climbing, and dexterity, including jumping, bending, climbing, and stretching, separately and in combutation, contribute to the upkerp of mental vigour as well as physical elasticity and soundness.

Halma is one of many simple games with boards and inovable "men," for parlour pastime, needing no description, the rules for its playing being supplied

description, the rules for its playing being supplied with the requisites procurable at any toy bazaar.

Hand Rings, attached to suspended ropes, form part of the fitness, attached to suspended ropes, form part of the fitness, and arm-muscle exercise.

Hunting the Bilipper, like Catching the Ring, is a simple and giverting game; all the players being scated in a semicircle on the carpet save the person left out to hunt. The slipper is passed about surreptitiously and dexterously betwist, under, or behind the seated players, and on being located, the one in whose possession the objective k detected has to take up the hunt, and, if agreed beforehand, pay forfeit also. In Catching the Ring a string is loosely extended between the hands of those at the ends of the half-circle, and moved back and forward by any of the players to elude the would-be catcher Indian Clubs are of various weights, for swinging and manipulation in gymnastics and physical drill, and

and manipulation in gymnastics and physical drill, and may be used solus or in harmonious exercise.

may be used solus or in harmonious exercise.

La Broase, or The Broash, has affinity to "Hunt the Slipper," except that the players stand in a complete ring, holding on with their right hands to a cord extended before them, and passing about a small hand brush with the left. Dancing around and singing or humming a merry tune, if possible to plano accompanient, they transfer the brush to one another as smartly as possible, auditby brushing their freighbour's clothing therewith before loosing hold thereon; the object hemg to confuse the searcher, who stands within the whiring ring. His or her back may be audaciously brushed when his search is wrongfully directed, la Brosse being immediately passed away or even thrown across the when his search is wrongfully directed, to Brosse being immediately passed away or even thrown across the ring at the risk of being caught by its seeker, who is out of the game on making a capture, the one from whom the brush is taken becoming searcher, to the shortening of the circle. When only four remain in the game the ring becomes too small for free motion, and the game ends, or begins over again.

Lotto is a parlour game with numbered discs and cards, one player having the discs in a bag and casting

them out rapidly on to the table, "calling" each number aloud. The other players pick these up as quickly as they can and deposit them on correspondingly numoered spaces upon the cards dealt to them before the disc distribution begins, the one first covering his or her cards completely and properly winning. There are twenty-four cards each having fifteen distinct I nere are twenty-four cards each naving inteen distinct numbers, ranging from one to ninety, so that each number is repeated in the pack four times; and the complete stock of discs will cover all the spaces. Two, three, four, six, eight, or twelve players may hold cards, distributed to them in equal number, "Picture Lotto" and "Natural History Lotto" are variations from the numerical carms describe storms. and required religions taking the place of the figures on the reception cards and playing discs or squares, as the case may be. Quick eyes and hands are wanted when the "cailing" is dispensed with, as is usual in plctorial "Lotto."

Morrice, Nine Men. An old game played on a chequer-board, similar to the modern chess-board. Each player had nine "men," differently coloured from those of his opponent. These were placed on the angles of the squares alternately by each player, and then moved as draughts. Every time each player, and then moved as draughts. Every time each player got three of his own "men" into an uninterrupted straight linear position, he removed any one of his adversary's "pieces" he might choose from the board, until one player lost all his "men" and the

Mine Pins. A toy game of skittles (which see also Dutch Pins), the missile in this case being a light wooden sphere, and the pins turned with nack and head. Made in various sizes and available for use on floor or table.

Ping-Pong is a species of "table tennis" for parlour play, with very light, small, hollow, celluloid balls, drum-battledores, and a dwarf dividing net; the

pame being to keep up continuous striking—always over the net and on the table—as long as possible, and to give awkward returns which will force the adversary to yield "faults," each of which scores towards game for his or her opp nent. The players serve in

Punching the Bag is a variation of "Ball Punching (q,v.), a dung stuffed bag being substituted for the inflated ball used in the latter exercise.

Puppet Shows and mining dramatic performances of the "gallanty" show order, in which figures were made to dance and move about with strings and wires, are obsolete; and marionettes, unless of an elaliorate character, have ceased to charm the children of this exacting generation of many available entertainments. Only the perennial "Punch and Judy" show holds its own at all, and even that has to be particularly well

its own at all, and even that has no be particularly well presented to prove acceptable.

Push Penny (or "Shote Ha'perny") was the propulsion of a coin lad flat to positions marked diagrammatically op a deal table, by striking, with the pelm of the hand, its edge whilst the penny projected over the end of a table. It was a poor g.me, with sortidi associations, and is now all but torgotten.

Puzzles, of the dissection and mechanical order problems of a complex and confusing character afford mental exercise to the ingenious and inculcate perseverance, so ranking as pastimes. But they cannot properly be regarded as games.

Exace Games. These and many other ingenious year many are usually fully described and explained by the manufacturers. Their name is legion and their variety unending.

variety unending

variety unenting.

Roller Skating on Indoor rinks is but a poor substitute for the exhibitation of ice-skating in the open on blades of stoel, but it affords exercise when the preferable pastime is out of question, and should therefore here receive mention.

Rope Quoits may be used indoors as well as on ship board. Their lightness makes them manipulable by the fair sex, and they afford exercise mingled with

netretanment.

Roulette is an interdicted gambling pastime, played at special tables, on highly speculative lines. Huge sums in the aggregate have been lost thereat in Con-

Round Games at cards are those in which each player acts independently instead of in partnership with another, as Loo, Brag, Matrimony, Pope Joan, etc. (See Cards.)

Scandal. This is a rather dull game, in which the company sits round, and the first of the party whispers

a brief personal story-not necessarily concerning a one present—to his or her left-hand neighbour.

a brief personal story—not necessarily concerning any one present—to his or her left-hand neighbour. It is repeated all along the line in an undertone, and having reached the last person, the ultimate version is compared with the original, when it will usually be found to have become considerably variant.

**Shadow** Buff.** A white shert is suspended towards the end of the room; before and facing it a person sits, on the carpet or a low stool. At the opposite end of the room a lighted lamp is placed, all other lights being removed or extinguished. Then, in turn, the rest of the company pass well belind the seated person and between him or her and the light, temporarily disguising gat or dress. From the shadow cast on the sheet the guesser endeavours to divine who occasions it. Upon detection, the person pays forfest and becomes the guesser. With a little ingenuity "Shadow Buff" may be very diverting.

**Singlestick** is a description of feucing (q, v, t), and contestants set about each other lustily until one drew blood from the other's head, and was declared the victor.

the victor

Skittles is played in an alley, long and narrow, with hine heavy wooden pun placed on end upon a frame in diamond position, one point of which fronts the place whose initials it is heavy flattened "cheese" of hard wood. His object is to knock down the whole me skittles in as few casts as possible, and an expert, with scrittes in as sew cases as possible, and an expert, with a very fortunate throw, may floor the whole nine at a throw. In "Dutch Pins" | p. w.) skittles and cheese are less weighty than those used for the regulation game, and the centre one, called the "kmg," is the taller of the nine. In one form of skittles, the ball (in that case round) is suspended by a core from the ceiling at a

round is suspended by a core from the ceiling at a height just sufficient, when swaigs skilfully, to strike down say bell it may hit. Banabdragon is a merry game of considerable antiquity—associated with Christias grathering—in which ratios saturated with flaming spirit are statched from a dish in a darkened room, and placed into the mouth immediately.

Solitaire is played on a round board with thirty-Bolitaire is played on a round board with thirtythree holes on its upper suiface. In each hole is
placed a glass marble. The player takes away
any one merble, and moves thereinto any other
separated by one from the vacant hole, remaining the
marble skepped over from the board, as with "men
at draughts; the object being so to take all but one
leaving that iff the hole rendered vacant by the first

Spellicans (or Spillikins) is a modern sdapta-tion of the old English gaine of "push-pin," or "put-pin," played nowadays by children chefty and elderly folk, with a number of short "spells" or "spills" of wood, bone, or ivory, procurable in boxes-at most of the big toyshops. It provides a mild parloughtversion for two persons, at a board or table, and adults of some desterity of hand githout calling for any exacting

Swimming (referred to under "Outdoor Bports") may conveniently be mastered and sindleged in at properly appointed baths, under cover, which are also suited to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental swimming to the display of ornamental ming and diving, both very useful arts and invigorating pastimes, when rationally engaged in.

Tableaux Yivants consists of the arrangement

TABLEAUX NYRAUG consists of the arrangement of groups of persons in character—to expressive some scene in history or romance—with illuminative accessories, the subject being left to be divined by the company. Unlike "Acting Charades" and "Proverbs" (q.w.) the characters do not speak; nor is action essential, though that may be permissible if the

stiff and limited movement of the automaton be imitated by the subject, after a preliminary suppositious "winding-up" on the part of the showman, as in Mrs. Jerley's Wax, Works. 'Tebleause Vieunsty proper, and the latter corollary thereof, affords scope for effective diressing and stage management, and may be made very interesting and amusing Tennis. (See Court Tennis, also Lawn Tennis in Outdoor Sports section.)

Tiddley Winks is played by any number of persons at a cloth-covered table, with small thin discs of coloured bone. These, by deft pressure towards the edge with a larger clac, are caused to spring towards or into a wooden cup placed in the centre of the table. Each player starts with an equal number of discs,

into a wooden cup placed in the centre of the table. Each player starts with an equal number of discs, coloured differently from those of his fellow players, ranging them in line at the edge of the table in front of him. Shots towards the cup are taken in turn, and when a disc is landed therein the player continues until a mix is made by him, when the next player proceeds. Whoever first cups all his discs wins. One ceeds. Whoever first cups all his discs wins. One ceeds. whoever first cups an instance while we dies springing upon another, the under disc cannot be played until that super-imposed has been shot away by its owner in his proper turn. Either sex, young or old, may play, and celerity is quickly acquired by

Practice.

"Tip II " resembles Coddam (g.v.), the guessing player, on demanding disclosure of any hand when he believes immed to have located the "piece," crying 'Tip III "-" from the tight "-as

the case may be,

Toys, simple or mechapical, are the desire and the joy of all children; and often the most supple give the greatest joy. There are, however, toys to suit every childish fancy, procurable at proces within reach of prockets. Those which belong to elaborate games and pockets. Those which belong to elaborate games and display complicated detail requiring costly material, are for the more tavoured juveniles of course; but no child need, in this age of indulgence and ingenuity, lack a sufficing paraphermalia of play.

Yaulting, whether with the high, low, long, or belonging to gymnastic practice. It assists and lends variety to leaping exercise.

Wand Exercisea.

warrety to leaping exercise.

Wand Exercises, with smooth sticks about an inch in diameter, and three to four feet long, for grasping with both hands, are beneficial in giving fexibility and strength to the muscles of the shoulders and neck.

(See Callisthenios and Gymnastios.)

Wibby-Wob is a species of parlour ball game, played on a table, with a small ball and wooden-haded and handled fiexible were wands, the object being to get the ball into a goal receptacle at opposite ends of the table, players thrusting at the ball in opposition.

pairs.
"Wills" is a round parlour game, in which the "Wills" is a round parlour game, in which the players write down on a sheet of paper, ruled into spaces, a given number of persons or institutions to which he or she would bequeath property. What is written is folded under, longitudinally, and the paper passed to the next player, on the left, each receiving that of the player on the right. Then in spaces in line with those bidded under is entered by each the legacies or articles to be bequeathed to the correspondently nominated beneficiaries, who are of course miknown to the writer. The payers are folded and spoudently nominated beneficiaries, who as of course unknown to the writer. The papers are folded and passed again, and a third correspondent entry made indicating what it is supposed was done with the bequest by its recipient. At the conclusion, the papers are shuffled, from hand to hand, and then read out, when some such result will be disclosed as that the willnaker left to (1) "His Relict," (a) "A Corkscrew," and (3) the legatee "Stewed it till Tender"; or (1) to "The Home for Lost Dogs," (a) "My Dress Suit," (3) when the receiver "Wore it next the Heart"; n, again to (1) "My Od Sweetheart," (a) "A Slower-Batl," it being (3) "Reserved for a Rainy Day," Council combinations, relevant or irrelevant, when the "Wills" are read, make great fun.





EDITED BY

### LENA GUILBERT FORD.

Toilet Editress of "Madame" and "The Lady's World,"

# Pears' Dictionary of the Toilet

#### INTRODUCTION.

### By LENA GUILBERT FORD,

Toilet Editress of "Madame" and "The Lady's World."

Every self-respecting woman wishes to look as well as she can, and what a delightful place sold world of ours would be if every woman were a thing of grace and beauty! To attain a this old world of ours would be if every woman were a thing of grace and beauty! considerable share of beauty is not nearly so difficult a matter as might at first sight appear, though beauty in its higher forms-the beauty which poets rave about and which is so generally

though beauty in its higher forms—the beauty which poets rave about and which is so generally captivating—is a gift which nature takes care not to make too common. It is graitfying to know, however, that by care and culture every woman has it in her power to greatly improve her personal appearance, and add to the charm of her features.

The beauty to which I refer is not the mere superficial attraction whose power is necessarily evanescent, but represents that far-reaching self-culture which accentuates the best lines of the "human form divine" and improves the weaker points—which, in short, amounts to a general cultivation of personal radiance, and a study of those minute details of the totlet which are real "saids to beauty."

"aids to heauty."

Within certain well-defined limits, art—that is, toilet art—can achieve a great deal towards enhancing a person's good looks, and can often make "plain" people attractive, for there are always improved effects to be obtained by "toning up" here or "toning down" there—effects which even the most favoured of natural beauties cannot afford to neglect or despise.

What is known as beauty-culture is really only another name for health-culture. The two ought never to be separated, for what is detrimental to health must also be detrimental to beauty; and it should never be forgotten that it is with the skin that you have to deal first and foremost in promoting beauty. The creiving old adage that says "beauty is but skin deep," and done a lot of harm. It has confused in thoughtless minds the vice of vanity with the virtue of self-respect. Skin-deep is deep enough, for when the skin is truly beautiful there can be nothing much wrong with the effect of the features. No woman can fail to make a good

impression if she be blessed with a fine complexion.

"You cannot improve upon nature" is another proverbial snare. As well say we should leave the vine or the rose-tree to grow in its own wild way. Where there is the best natural environment this leaving nature alone may be wise, but we seldom meet Mrs. Nature in her primitive state nowadays. She is ewayed and moulded by the force of changing circumstances and conditions, and a guiding touch of the human hand is often most advantageous. Our physical beauty E amenable to all sorts of improvement, and even the actual shape of one's features may be modified to some extent by judicious treatment.

In the ensuing pages care has been taken not to trespass beyond the legitimate limit within which nature will respond, for to attempt to leave nature behind in these matters is to court humiliating failure. Toilet requisites, I must add, should be f.w, simple, and good, but the keynote of success in these things is complete and perfect personal cleaniness. A careful study of the instructions here laid down, however, cannot fail to yield gratifying results.

LENA GUILBERT FORD.

On subsequent pages are presented in alphabetical order a number of hints and observations covering in a practical manner the various matters connected with the Toilet. These hints represent a long and wide experience and will be of assistance—especially to our lady patrons—in laying down certain valuable rules by which the most can be made of one's personal charms, particularly if taken in connection with the more general information given in another section of this work, viz., "Pears' Dictionary of Health."

Economical, Tollet. The paramount requisite of the tollet is a sufficiency of good soft water, naturally soft and so by some of the many softeners at the summary of the many softeners at the summary of the many softeners at the summary of the summary of the many softeners at the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of the summary of

Acna. The ugly spots or pimples which frequently appear on the face—especially of young people—is a disease of the skin glands, and when it takes the form of what is called "blackheads" detracts considerably from the beauty of the skin. It is a common practice to force "blackheads" out by pressure of the fingers, but this is not only painful but leaves a swelling which sometimes develops into a hard and permanent lump. An excellent iotion for getting rul of these things is made as follows: Flowers of sulphur, one teaspoonful. But rose-water, one pint; glycerme, one teaspoonful. But when the specks are obstinate the following preparation will be found effective: liquid ammonia, twenty drops; ether, one drachm; Pears' Soap, one ounce. Bathe the affected places with hot water, rub in a little of this mixture with the thunth, and wash it est with hot water. Persons subject to acre should avoid tea and coffee, and use coco or warm milk instead. They should not eat pastry, sauces, cheese, or any highly-seasoned dishes, but eat freely of fruit, tomatoes, and well-cooked green vegetables. At might the face should be washed in hot water and steamed well, afterwards rubbing a little cau de Cologne into the skin Ordinary face powders should be shunned, but Pears' Violet Powder is at once soothing and protective.

**Age.** Old. Persons of advancing years, if wise, will accept the inevitable changes of Time with a good grace, and not endeavour to appear, dress, or adom will be found effective : liquid ammonia, twenty drops ;

grace, and not endeavour to appear, dress, or adom themselves in a way more fitted to their earlier years. To ape juvenility in life's decline is to draw pointed attention to the actualities which cannot be concealed. Careful living, and the preservation of good temper, Careful living, and the preservation of good temper, with regular exercise suited to the strength, in pure air, are age's best cosmetics. The toilet of those past their mendian should aim at conservation, not an impossible restoration or ridiculous dissimulation. Rigorous cleanliness, inconspicuous attire, and neatness, go a long way towards arresting a too speedy advance of the marks of age. It is natural to dread the little souvenirs which Father Time leaves with us the little souvenirs which Father Time leaves with us on his yearly visits. In many instances we may out-wit him, and since the art of beauty-culture has reached so high a degree of perfection, we see comparatively few "elderly" women. It is a charming thing, we are told, to grew old gracefully, but most of us prefer to keep young gracefully, and one of the first things to watch for its the appearance of the neck. That is the tell-tale age-mark for most women, nowithstanding their remarkably young faces. The flesh on the neck gets "stringy," and when the head is turned the

unpleasant secret is out! Exercises for keeping the neck in form are simple. An effective one is to stand with the hands on the hips. Inhale a deep breath, force it against the sides of the throat, and hold it for five seconds; then exhale slowly through the mouth in whisting position. If a lighted candle is held before the hips, the breath on departing from the mouth should not waver the fame. It requires much practice before this is possible, and giddiness is liable to ensue during the first attempts. Then, while the neck is thus inflated and the "salt-cellars" have disappeared, the head is turned slowly from side to side and from front to back. The good effect is seen instantly, but of course is not lasting to that extent, although some part of the benefit remains after each exercise. Another sign of approaching old age is the short nervous step. Therefore anything that will keep the joints well oiled, and the step light and springy, does something toward retaining the youthshort nervous step. Inereiore anything that wis keep the joints well oiled, and the step light and springy, does something toward retaining the youth and springy, does something toward retaining the youth and appraisable and the step light and springy, does something toward retaining the youth and women who sit much during the day to write, read, or for other purposes, must be particularly careful. After sitting for a long time it is a good plan, and wonderfully refreshing, to extend the arms in front of the body, placing the palms of the hands together. Lift then slowly over the head and bring, them down at the back, separated, always having the feeling of making the hands as nearly as possible at the centre of the back. Inhale as the arms go upwards and rise on the toes; exhale as the arms descend and regain normal position of feet.

Arms, The. Arms of perfect proportion are uncommon. They are often either too £at or too thin, especially from the ellow to the wind. In either case massage is the best means of improving them. The she of one arm should be finuly grasped with the hand of the other and worked steadily up and down with a twisting movement for ten muntes. Then the

hand of the other and worked steadily up and down with a twisting movement for ten minutes. Then the other should be similarly treated. The development of the arms will be much assisted by dumb-bell exercise, which brings the muscles well into play. Such exercises, however, should be indulged in with moderation, or harmful fatigue will be caused, and the bells should be a pound in weight. Ten midutes is bells should be a pound in weight. Ten mifutes is ample for a beginner, but, as the muscles become more used to the proceeding, the time may be extended. Should the skin on the upper arm be roughened and red, the occasional and very careful use of a piece of punner stone and a small quantity of lemon juice dituted with water will quickly render the skin smooth and white. The arms ought always to be lemon jurice diluted with water will quickly render the skin smooth and white. The arms ought always to protected from the weather. When exposure to the arr is v. gooldable a good coating of cold cream, will prevent the coarsening of the skin. The fashion of short sleeves which prevailed for experie teasons revealed a sad story as to the shape of fore-arms energh. The shape of a well-developed arm between the chow and the wrist is exquisite and it is quite easily obtained, and always can be improved. If the arm is too thin, a good exercive is to extend the arms too thin, a good exercive is to extend the arms, bending at the wrist. The feeling of resistance should be given all the time to the nucleus and the strain will be felt along the fore-arm. This should be done five minutes as many times a day as convenient and a difference in the plumpness will be noticed in a short tige. Then a good skin-food should be rubbed well into the arms at night. Olive oil will produce good results in this direction, but in using olive oil, it must always be borne in mind that it darkens the skin. It is wiser when applying it to the face, neck or arms, to use a cream whose basis is pure olive oil. In the morning the arms should be bathed first in warm water and then in cold, then in warm gain and funshing with cold. The friction should not be strong is drying, but if the arm is not wiped throughly dry, the skin will become coarse and rough. It is seldom that the arm is too fat, but if such is the case, the superfucious fisch can be removed by taking it in rolls between the first finger and thumb, and rolling it gently. The massage rollers for this and similar purposes are effective. Tapping the arms with the first of the fingers moistened with cream will sleo increase their plumpness, but during all these treatments, the wrist must be properly exercised in order to keep it slender. Dimples in the ellow are considered a mark of beauty, and nothing is more hideous than a sharply pointed elbow. The point should be treated by seaking in hot water for twenty minutes a day and

a mark of beauty, and nothing is more hideous than a sharply pointed elbow. The point should be treated by soaking in hot water for twenty minutes a day and them massaging gently.

Baldness. There are many vaunted specifics for the prevention and cure of baldness; but none less harmful or likelier to afford general satisfaction than the following cheap and simple application:—Whisk up the yolk of one fresh egg, and mix therewith an equal quantity of the squeezed and strained juice of chopped and uncooked Spanish onlons. Add thereto as much crude cod-liver oil in quantity as the two foregoing ingredients make together, and then whisk the whole perfumed to mask its rather disagreeable odour placed in aight receptual can be intermibled into the area of the property of the strain of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prop as regards the whole body at once or otherwise. After leaving the bath, the risk of chill must be adequately guarded against. Care, brisk towelling, and quick dressing will ordinarily suffice. So much for the usual home bath. Thrikish, vapour, or medicated baths for special purposes should be taken under proper directions and supervision.

A delightful variation from the every-day ablution A delightful variation from the every-day ablution may be provided by the use of a bath sachet. Get a sufficiency of soft white towelling, and make we have bags about four inches by six inches in size, leaving one side open. Then prepare the following mixture, and fill the bags writh, until they are, when laid flat on your hand, about half an inch thick:—Powdered borax, four tablespoonfuls; powdered orris-rost, three tablespoonfuls; good smooth, fresh oatmeal, four large teacupfuls; old lawender, ten drops. Sew up the bags, and in the morning let one soak in the bath water for ten minutes, then use it as a washing glove until the whole of the then use it as a washing glove until the whole of the body is well lathered. Then proceed with the bath, taking care ultimately to rinse off the whole of the

Bath, Beauty, A beauty bath, of especial benefit to those who suffer from a dull, callow skin, is ordered as follows: If possible use rain-water of comfortable temperature for this bath, or, failing that, warm water from the tap, softened with borax. Then brung into use a specially prepared bath lotion made as follows: four ounces of rosewater, to which must the added on ounce of glycerine, a teaspoonful of powdered borax, one ounce of accolo, one ounce of tincture of benzoin. Before being used this mixture should be allowed to stand about a week, being occasionally shaken to secure the proper mingling of the ingredients. At the end of that time two ounces of rosewater should be added.

Bath, Sea Sait. This has now been made a simple matter, sea-sait being easily obtained for a few pence a bag from any chemist, and a cupful thrown

pence a bag from any chemist, and a cupful thrown into the bath is all that is required. But the exhibitating affects gained by bathing in the sea are to a great

extent absent when the sea-bath has to be taken in one's

own room.

Bath, German Spa Method. A form of bath given an analy of the German Spas can easily be carried out in every detail in any ordinary bath-room. Take a pint of good table-sail and spread it over the bottom of the bath, and add a little powdered borax. Fill the bath with boiling water and allow it to cool to a tepid temperature. Take a quick scrub in this, allowing the water to dry on the skin. A second bath in clear warm water should be taken after this, using Pear's soap for its special soothing qualities, No matter where the sait bath is taken, whether in the sea or at home, it should be followed as quickly as possible by a clear water one, as indicated, for although sait water is in wigorating to the muscles and good for salt water is invigorating to the muscles and good for the general health, it has a very injurious effect upon the complexion.

sait water is invigorating to the muscles and good to the general health, it has a very injurious effect upon the complexion.

Beauty, The "Cult" of. Intelligent and faithful observance of the hygrenic laws pertaining to our systems, and the wearing of apparel fitted to the seasons and to our individual requirements, he at the very root of the "cult" of beauty, which is satinable by all weathers, or hoped, which shapely forms and considerable of the control of the state of the cult will cultivate them. Indeed, there is much to be done to renedy nature's shortcomings in this respect by the exercise of proper measures. The first convideration is health, for, lacking that, the human form is berefit of its natural bloom and freshness, and the signs of decay set in early. One of the great essentials of health is the maintenancy of the various functional operations in a condition of natural activity, which applies not only to the chief organs of secretion, but to the proper action of the pores of the skin, for which good soap and water are the first sids. Our living should be regulated, day and night, to the harmonious realisation of "joy and temperance and repose." Caprice and indulgence set their detracting marks on personal beauty, and cannot be allowed to dominate "the deed, done in the body" with impunity. Diet, exercise, and regular living (all of which matters are here dealt with under separate headings) are ruling factors in both health and beauty. The observances of the toilet must be looked upon as a sacred duty by all who wish to attain or maintain beauty, the primal duty heing to keep in perfect cleanliness "the casket which enshrimes the soul." This is the great guiding principle of the "cult" of beauty, to be applied in a common-sense way, by legitinget means, incessantly. Much can be done by persistence.
"Beauty" Foods.

"Beauty" Foods. (See Mone.)
Blackheads. (See Mone.)
Blackheads. (See Mone.)
Boots and Shoes. (See Feet.)
Breathing Exercises. The disagrecable
"colds" which affect young and old alke during the
winter months would be almost unheard of it everyone "colds" which affect young and old alike during the wister months would be almost unheard of it everyone induged in a regular course of breathing exercises. Ten mnutes at a time, in the morning, and once during the day, either out of doors or before an open window, devoted to correct breathing should, in a very short time, work a wonderful change for the better in a naæmic person. A girl or wousan before commencing to exercise should loosen the corset and all belts and bands that are at all tight; the window must be wide open, if the exercise is performed indoors, and the patient essaying the deep-breathing "cure" must stand facing it and take deep breaths. These must be dgawn in slowly and steadily through the nose, until the chest rises and the lungs feel as full as they can comfortably be. The breath should be held for at least two seconds, and their forcibly expelled through the mouth. After the lungs have been completely emptied, a few seconds' pause should be allowed before the process is repeated. Very delicate girls may find this exercise rather exhausting at first, and should be allowed to lie down in the early stages of the "cure," say, upon a rug on the grass in summer, or on the floor in winter, before the open window, with a rug pushed up to the door to prevent draught. Very weakly people, especially those whose hearts are at all affected, should fill the lungs by short breaths at the beginning, and as the lungs gain strength by the exercise the breathing can be lengthened without fatigue. "Health and quiet breathing," to use Keati's expression, are amongst

breathing," to use Keath's expression, are amongst beauty's most precious secrets.

Breath's weeteners. One of the best, whitever be the cause of the objectionable exhalation, is mixture of powdered, prepared charcoal, cinchona bark, cream of tartar, and attar of rosesy which will be made up in the relative quantities regulated by any reliable chemist at a moderate cost. Eau de Cologne of good quality, diluted with filtered water, is a simple and useful mouth wash, and to this a little tincture of myrrh may be advantageously added. Even simpler and cheaper is a solution of borax and water, with honey of roses incorporated. For smokers, liquid chlorinated soda with distilled water, in the proportion of one to twenty, is capital; and a drop or two of orange flower essence 'may be introduced for odoriferous effect. Cloves and other powerful aromatics, such as peppermint and cinnamon, rather matics, such as peppermint and cinnamon, rather defeat their object by their assertiveness. (See also Perfumes.)

Bust, The. An over-sumptuous bust can be placed less en evidence by skilful dressmaking, as can also an unduly fint chest; while both may often be permanently improved by judicious and pesistence reacrics. (See Costume, Choice of, and Exercise.

permanenty improved by judicious and peisistent exercise. (See Costume, Choice of, and Exercise.)

Carriaga. There is no one thing which helps more toward the pos-ession of "personal charm "than does a good carriage. The importance of a fine carriage and a graceful walk can scarcely be overstimated. First of all, to obtain a good carriage, one should stand errect, the weight resting on the ball of the food, and the locals only just genity touching the flood, and the locals only just genity touching the flood. The control of the food and the locals only just genity touching the flood and the locals only just genity touching the flood. Whit an annateur, the chest can still be forced higher by drawing a deep breath, and by muscular effort the chest may be made to expand an inch or so. The elbows should be drawn backward and slightly bent, and the shoulder-blades should have a feeling of meeting at the back. When this is done, a book is placed on the top of the head, and if the neck is in correct position, and the lacal properly poised, the book will not fall off in wilking. The Grecian ladies of old, who were famous for their graceful carriage, swayed the head slightly with each step, but this movement will come naturally, if the other points are mastered in turn. It is, difficult to explain in words the exact process of learning to walk correctly, and at first there is bound to be considerable stiffness in the movements, but an easy swinging gait is bound to arriver if the above instructions are carried out in front of a mirror. The shoulders must not nove noticeably, but from the walst downward each part of the body has its work to do. The hip moves forward as the right foot is extended, and the movement of the knee is not simply to push forward, but as a modified prancing of a horse it fifts the foot from the ground, performing a rotary motion, and when the foot meets the formula again, the heel should point to the mistry of the other foot. If the step is taken in this fashion, there will be no wearing dow of h

place or no running over of the boot.

"Thaning." For chann, swide of zinc ointment is
good, but a better and safer remedy for all ordinary
cases—and a sure preventive of channg if regularly
used—is Pears' Precipitated Fuller's Earth.

used—is percentaged. The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of

allay the Irritation. Another efficacious and simple remedy is this: Take a piece of alum about the size of a wainut, and melt it in a pint of hot water. Seak the hands in the liquid before going to bed for ten or twelvo minutes, after which they should be covered with gloves without grease of any kind. In the morning the hands should be soaked in a solution made of half a

with gloves without grease of any kind. In the morning the hands should be soaked in a solution made of half a pint of rosewater, three drachms of sulphuric acid, and the same quantity of myrth.

Chin, Double. There are three corrective courses open to one threatened with the undesirable addposity known as "double chin." The first is massage, which in this Instance consists in gently pinching and kneading the flesh by holding it firmly and rolling in the fingers, and then smoothing it hack. This treatment must be steadily persevered in if it is to be beneficial. A second method is directed to reducing the amount of flesh beneath the chin by means of bands of plaster to keep the superfluous Fesh in position. These bandages should be worn every night, and although they are by no means comfortable, constitute a reliable remedy. The bandage must be placed under the chin, and passed over the ears by the crown of the head. It is always advisable to lave an additional strap passage from the outer edge of the bandage to the back of the head. They may be made of the ordinary bandaging strips or of a good elastic. In the latter case care has to be taken that they are not draws his or light, so as to interfere with the circulation. "Once thin, and so the taken that they are not draws his or light, so as to interfere with the circulation." Once thin, are regular owners of exercises, Bigin by throwing the head backwards and upwards, at the same time keeping the lower law thrust out. The teeth should then be cleenched, and the mustless of the throat drawn upward and relaxed, and then the strap that the notion that the intention of the chin in the condition of the chin in the course of a few weeks.

head from side to side to the fullest angle of which it is capable should be the next excress. If these exercises are indulged in for about ten inhutes a day there would be a very marked improvement in the condition of the chin in the course of a few weeks.

Chiropody. (See Corns.)

Clothes, Care of. Never put clothes away unbrushed, nor forget to pull and straighten out gloves, to roll up veils carefully, and never sit about in a walking-dress indoors, are golden rules to remember for the preservation of raiment. The "well groomed" appearance for which every wise woman strives, is due as much to the care of the clothes when not being worn, as to the clothes themselves, Generally speaking it is better to fold than to hang clothes, but the corner folding of une's wardrolbe is a study by itself. Bodies should be held by the top of the sleeves, the year and the stripe of the clothes when not being worn, as to the clothes the corner of the clothes when not being worn, as to the clothes the corner of the clothes when not being worn, as to the clothes themselves, the year of the clothes when not being worn, as to the clothes the message when the corner of the clothes when not being worn, as to the clothes the clothes when the clothes in the clothes when the clothes are constant to the clothes when the clothes are clothed as a stripe of the sleeves, the year by the clothes, but the corner of the clothes, but the corner of the clothes, but the corner of the clothes, but the corner of the clothes, but the corner of the clothes, but the clothes when the clothes are clothed across, but it should never be difficult to find card-board boxes large enough to spake the blouse folded corner to fold a clothed corner than the clothes when the clothes are clothed to skirt with a train is to lay it on a set of the clothes are but the clothes when the clothes are clothed to a skirt with a train is to lay it on a set of table, folded down the middle of the fewer in number of course the better. If buttons are on skirts or bodices, whi

cession. The habit of changing gown and foot gear when indoors is true economy.

Clothing, Hygienie. In a climate so changenble as ours, cotton underclothing should never take the place of woollen. During the summer, if fiannel cannot be borne, some fine woven woollen fabric should be worn next the skin. When linen is employed it should de changed frequently. Better pay out money for the laundry than for the doctor. All clothing should fit comfortably, and especially should not be tight. Fashion need not be disregarded, but should always be made to bend to comfort and health.

Golffure, The. This French term implies more than the unere arrangement of the hair, the style of which should always be suited to the contour and complexion of the wearer's features, and so dressed as to enhance the wearer's beauty. The daily hygiene of the luir is a matter to which serious consideration must be given if good results are to be secured and

of the hair is a matter to which serious consideration must be given if good results are to be secured and naintaned. It, of course, varies with the individual; hair which is lank, or moist, or greasy (conditions usually found in the hair of nervous subjects, or of those who have much anxiety, mental worry, or stress of brain work) needs a totally different treatment from that which is dry, and full of white scaly dust. (See also under Hair.) Then the hair specialists are by no means agreed as to general governing lines of treatment. Some have taught that the hair should be regularly cut, either at the new moon (to encourage a longer growth), or at the wane of the uson if extra thickness without increased length be desired. A smile may be voked at the seening lunacy of this morn idea, but there is method in the madness. Other, are emphatic in laying down that it does the lair no good to cut it. there is method in the madness. Others are emphatic in laying down that it does the hair no good to cut ut, and many have omitted the cutting with undoubted success. Then, again, while most of the hair specialists advocate a vigorous brushing of the hair from root to the (with a convex brush; the bristles of which will penetrate to the scalp) from ten to twenty minutes night and incorning; others say that no brush should be used, but that after the application of a few does of a cond bulescurbular wearestion a thorough drops of a good hair-nourishing preparation a thorough combing, beginning at the free end, with a special comb shaped to the head and made with a handle, for combing, beginning at the free end, with a special comb sliaped to the head and made with a handle, for hygienic reasons, also without teeth, for the same reason, should be given, and that following this a soft piece of gaes slike should be used, folded over a faisy thick strand of hair at a time, and then drawn rapidly over it. This is good practice; but the great thing is to bestow constant care upon "woman's crowning glory," ensuring cleanliness by gentle and frequent lavation, and the use of a pure and reliable soap like Pears, followed by patient smoothing wind drying. As to making artificial additions to scant and falling locks, that is a matter for taste and discretion—especially the latter. Let the remembered that the desire of a woman to have a luxuriant, richly-coloured, lustrous head of hair proceeds not only from vanity, as those who rage against the "transformation" would have us believe, but also from the very praiseworthy desire to show the sign of health and vigour. Nothing "lets a woman down" like appearing with thin and poorly-dressed lair, forgotten by Natire, unsided by art, and neglected by its wearer. One owes herein a duty to one's self and one's entourage. But the restoration period should be taken in time and manged tactilily. (See also Baldness and Halr.)

Cold Gream, Home-made. This will be found reliable, and preferable to the unknown admixtures which are sometimes advertised under pretentious appellations. One ounce of good white wax, half an ounce spermacet. Dissolveryer gradually by placing, immersed in two ounces of olvo of his new and manged tactilily. (See also Baldness and Halr.)

Cold Gream, Home-made. This will be found reliable, and preferable to the unknown admixtures which are sometimes advertised under pretentious appellations. One ounce of good white wax, half an ounce spermacet. Dissolveryer gradually by placing, immersed in two ounces of olvo oli in a basin near the fire. Cool upon amalgamation. Stir in those officing properties.

an admirable enoment, dure free from trading properties.

Cold Winds. (Sec Complexion.)

Colours and Complexions. Bue is unsuited to the brunette, because its orange reflection intensifies a dark complexion; but a blue well will diminish the effect of bright; light on the lue of any skin, just as blue spectacles preserve the eyes from the sunshine.

Light green increases the ruddiness of a warm com-plexion, and gives a heated appearance; to the pale blonde it is permissible, inparting enhanced rosiness. Sky-Bue and its allied hues become the very fair, bringing into proxituity with the dominating tings of their hair and-complexion the complementary colouring. Reds, yellows, and oranges may be worn by the dark-haired and dark-complexioned with impunity, as enriching shadesof blackness. But violetts treacherous wear, reflecting and augmenting yellowness of com-plexion or hair, and making blue seem green. If a woman of sallow skin would look her worst, let her adopt violet millanery.

woman of sallow skin would look her worst, let her adopt violet milinery.

Combs, Care of. Combs can be cleaned, working a place of cardboard between their teeth, and afterwards rubbing them well with flannel. As tortoise shell combs are alway, prone to break easily, many may find this linit a useful one. If the combs be really of freezies shell the traces of uniting should be inof tortoise shell, the traces of joining should be in-visible. First slope the margins of the break by scraping off the broken pieces for the distance of about

of tortoise shell, the traces of joining should be invisible. First slope the margins of the break by
scraping off the broken pieces for the distance of about
a quarter of an inch from the edge; then overlap these
margins, and when thus arranged, clamp them between
astrong letter-clip, and immerse the comb in boiling
water for some time. As the horn softens, it unites;
and when dry again, the place where the break had
been should be uninoticeable.

Complexion, The. Cleanliness has more than
all else to do with promoting and keeping a cleacomplexion. Frequent and regular lavation, with the
roulance of all high tools stope is the prime essential
see Basias and beak large
complexion. The habit of falling astern at a few moment,
the basias and beak large
some to be encouraged in the interests of health—a
more important consideration even than colouring,
though inextricably hound up with it. After unusual
fatigue, the face of even a young woman has a drawn
and tired look which ages it pulpably. A quarter of
an hour's sound sleep removes this and replaces it by
the soft commingling of white and pale punk, which is
the characteristic of the finest blonde complexions, or
the rose and olive of the brunette. (See Reat.)

Much can be done to improve a poor complexion by
plenty of exercise and hygience living, as here and
clsewhere insisted upon. Beyond thus, steaming has a
surprisingly good offect upon some sallow, thicklooking skins. Hold the face for a while over water as
hot as it can be borne without scalding, keeping the eyes
closed and the steam in withs sort of tent formed with
a bath towel. Renew the hot water occasionally.
Then wash with Pears' Soap and douche the face with
cold soft water. The hot water opens the pores of the
skin, the soap cleaness it, and the cold closes the
pores and stimulates the skin to healthy action. It
also braces it against the sun, the east wind, or frost
come people rub in a little eau de cologne to finish the
process, but this is not necessary; indeed, it is best
to trust to t

to trust to the emollient and detergent effect of the soap. To remove the pautiful smartury which results from exposure to the sun, especially in sea air, the following preparation so of value: An ounce of Pean's Soap dissolved in three ounces of orange-flower water, mused with one and a half ounce, or oris root (is-solved in four ounces of spirits of wine. Let all stand for a day or two, pour it off the sediment, and pour a little into lukewarm soft water to baths the face, particularly after exposure to the sun and wind. "Tas" can be removed from the face by the application of a little peroxide of hydrogen, diluted with water. Have it mixed by a chemist, and on no account made too strong. For "Preckles" some recommend the application of butternilk, and it can do no harm.

A serviceable complexion wash for use after exposure

tion of butternilk, and it can do no harm.

A serviceable complexion wash for use after exposure may be thus prepared: Peel a large cucumber or two, cut in slices, place in a double boiler closely covered, and cook slowly—without water—until soft. Put the pieces in a fine linen bag, and squeeze until all juice has been extracted; add to the juice one-fourth rectified spirits of wine (or whisky will do) and one-third elder-flower water. Shake well, pour into small bottles, and seal. The lotion may be applied several times a day at first, and less frequently when the skin has become clearer Shake well before using.

The skin in winter is liable to become dry, tough, and red. To guard against these evils, a little cold cream (g.w.) should be applied after washing, and carefully wiped off, after which some Pears' Violet Powder should be dusted over the face, left oragior a few minutes, and brushed off with a pad of cotton wool. For the hands, which generally suffer even more in frosty weather, an excellent plan is to rub a nixture of glycerine and rose-water into them when half-dry, and finish the drying process thoroughly afterwards. This will keep the hands soft and white in the bitterest weather, it gloves be constantly worn out of doors and an old pair used for sleeping purposes.

out of doors and an old pair used for sleeping purposes.

Sitting too closely over the fire, especially when fresh from a walk in the cold, is most injurious to the complexion, making the skin harsh and dry and encouraging premature wrinkles. To retain one's youthful appearance, the skin must be kept firm and elastic, and anything which holps to induce an unnatural dryness destroys the elasticity.

Complexions in connection with diet. Diet has a great effect upon the complexion. Simple food, as waried as possible, and cooked to perfection, is good for both health and looks. Simple dishes eaten with relish, and digested merrily, not sadly, bring brightness to the eyes and freshness to the checks. Most of use cat too much meat and not enough vegetables and fruit. Fresh water-cross is a specially good blood purifier. It should be eaten at breakfast and each meal during the day whenever obtainable, with plenty of salt. See also that it is thoroughly well wasled. Not less of the day whenever obtainable, with plenty flows water-cross give a clear complexion to take one of the salt of the complexion of absorbing uon from the water when the grows.

**Look of the complexion is the complexion in the salt he water that the produces a fresh, hight colour, as it has the produces a fresh, hight colour, as it has the precision of absorbing uon from the water which it grows.

**Look of the complexion is the complexion in the salter in the control of the complexion in the salter water that the complexion is the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter water the control of the complexion in the salter w which it grows.

Vells are harmful to the complexion, unless they are diaphanous, and of sufficiently open texture to admit the air whist excluding grit; the skin needs the friction of the air. Containt covering interferes with the circulation and the healthy action of the pores. It leasts the face, and keeps it covered with an oily moisture which catches the dust and dirt, despite the vell, and gets into the pores. When the face is left exposed to the air the dust is largely blown off, and the skin remains dry and clean. In motoring even—within the legal speed limit—vells are a superfluity; and eye-protecting "goggles"—giglness's supreme invention—are dispensable, exceptin a high head-wind. Have your air-bath (or th-face on a lourney, and your water-wash on reaching the end, and the complexion will sustain no hurt. Veils are harmful to the complexion, unless they will sustain no hurt.

But in all matters of the complexion remember the

testimony and commendation of Adelina Patti, 
"Pears' Soap is matchless for the complexion."

Corns. When these are contracted every effort should be made for their eradication, otherwise all the snould be made for their eradication, otherwise all the observances of the toilet generally will "leave something to be desired." Here is a good racipe, which should be compounded specially by your chemist according to direction. In one drachin of absolute alcohol dissolve and mix forty grains of salicy head and six grains of extract of Indian hemp. When these are intimately blended, make up to one conce with feesible collodion, and again blend thoroughly. Before wen annote this to your corns, sale your feet in hot you apply this to your corns, soak your feet in hot water, in which you have dissolved a lump of common water, in which you have dissolved a lump of common soda, dry, and give each come on thorough application. Repeat the whole process every night until the come disappear, but after the first night yoa should peel of the collodion coating before you bathe the feet or while doing so. Thus may come be banished, and they will not reappear if the feet be regularly exercised and good-fitting boots worn. Remember, however, that it is quite as bad to have boots too loose as too tight; in the first case comes are induced by finction, in the second by undue pressure. (See Feet.)

Corsects. Where corsets are worn-and almost every woman wears them where Civilisation reaches nowadays—great care should be exercised to have them well-fitting, so as to 2 flord bodily support without stricture. It is tight lacing and hurtful pressure which sender stays and corsets a menace; their abuse, not their use, calls for condemnation. The much

abused Dame Fashion sometimes does us a good turn, and her course in the matter of corsets for the past few years is distinctly such. The days of wasp walsts (and they return periodically) are always ad ones for woman-kind; but the corset which compresses the superfluous fiesh about the hips, and gives aupport to the lower portion of the body where most women are conscious of a sense of weakness, is robbed of all its injurious effects. A corset must not compress the vital organs, but with the straight-fronted modes, the lungs, heart, and stomach are left quite frogure, the corset should be laced with three separate laces. The upper one is threaded till about three holes above the waist line, the second includes only four or five eyelets just at the waist, and the third extends to the lowest eyelet of the corset. It is most important the stays are adjusted properly, and that means placed lower on the body than is usually done. The suspenders are then fastened and after all this is done, the stays are laced to a comfortable tightness. Before the lacing is accomplished, the hands should be placed insule of the corset, and he superflous flesh drawn above the waist-line. This prevents the lacing from compressing a vital part, and also improves the figure. If a figure has become too spread, as is so often the case, in middle life, care of this sort will do much toward restoring it to attractive lines. It is a mistake to have a corset closely boned, and that is why a cheap corset is seldom a success. The bones need to be fitted in other directions besides from top to bottom, and it is only a skifuli corsetier who can do this successfully. The example of the Fronch women

why a cheap corset is seldom a success. The bones need to be fitted in other directions besides from top to bottom, and it is only a skilful corsetier who can do this successfully. The example of the French women who buy a good corset, no matter how inferior the dress, can be followed with advantage. It is mination to a figure to sit around the house or work without stays. All sorts of bad habits as to carriage are formed, and on the other hand, if household duties are performed, special and loosely-laced stays should be worn. (See also Walst.)

Cosmetics. Soap mid water come first in the category; purity is a simple cold cream (for which a recipe is given, ante), will be found very serviceable. Always be careful to rinse away soap after washing. Eau de Cologne, fresh, yet diluted, is good. For podders keep to Pears', it is safe and effectual where needed. Rouge has been superseded by carmine, that should only be employed with caution and sparingly; bismuth preparations are always hazardous. Glycerue induces growth of hair and is not good for the face. A cold creap with vegetable fat as basis is good, and pure olive off is excellent though darkening to the skin. The powder puff should be a good one of swan's down, and keep boxed away from dust. For the rest, specific cosmetics for various contingencies are referred to in their proper order; but the less they are required and employed the better? Absqikte cleanlines is far preferable to plastering, the bloom of health to any enamel.

Costume is a very important tollet matter indeed. All apparel and dress accessories should be becoming as to coloration' (see Colours and Complexion), and also, in design and make-up, adapted to admit of the most advantageous presentment of the figure of the water; not over-obtrusive of specially good points, nor too obviously fashioned for the luding of impeniections. Suitability ought to have precedence points, nor too violatily assented to lave precedence of smartness in all things, and good taste govern in the control of smartness in all things, and good taste govern in the control of smartness in all things, and good taste govern in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr constantly studied. Let each apply these maxims to her own individuality, whether she be short or tall, stout or thin, dark or fair, young or old; they con-stitute the "golden rule" as respects costume, and

stitute the "golden rule" as respects costume, and allow a wide range for womanly resource and gratification. (See also Figure, The.)
"Growsfeet." (See Face, and Wrinkles.)
"Curling the Hair. (See Hair.)
Dentifrices. Good smple dentifrices are camphorated chalk, brushed well over the teeth regularly, with clear water rinsing to follow; or powdered borax dissolved in tepid water, to which a little of tuncture of myrn may be added if desired. (See also Breath-Ewaetaners and Teath.)

myrrh may be added if desired. (See also Branth-Bractan-Br and Teath.)
Depliatories. (See Electrolysis.)
Diet has a deal to do with rendering trouble taken with the tollet successful or otherwise. If you want to have a good complexion eschew greasy foods, cakes, pastry, and sweets, as well as all highly seasoned dishes. Don't eat between meals. Eat plenty of dishes. Shorn't each between meals. Earl plenty fruit (fresh and stewed) and green vegetables, underdone beef and mutton, white fish and milk pruddings. Abstain from strong tea and coffee, and if you find that any special food disagrees with you, give it up at once. The stomach quickly reacts on the skin, and takes its revenge by giving it a muddy look. The "rigour of the game" in "beauty cult" entails a very arrict regimen as regards feeding. An authority on this theme enjoins that "the menu for a would-beauty must be of the simplest. Two neals a day are the most of which she may partake, and at these the range of choice is decidedly limited. No breakfast is allowed, but a glass of cold water, an orange or an apple may be taken if desired. The first meal of the day is a musture of breakfast and lunch, and is eaten at noon. It consists of a good vegetable soup, ot the day is a mixture of breakfast and lunch, and is eaten at noon. It consists of a good vegetable soup, some nuts (walnuts chopped fine, or chestnuts boiled and mashed or roasted), cheese, brown bread and butter, chocolate, and for drink either warm milk or cold water. The second and only other meal is partaken of about 7 p m., and differs very slightly from the first. A soup of lentils or harlcots is followed by eggs, whole-meal bread, and various vegetables; from the nest. A sould of seeings of narrous is ronowed, by eggs, whole-meal broad, and various vegetables; salads are allowed, and any fruit which may be in season, with cream. For purposes of digestion, a glass of Vichy water may be taken half an hour afterwards. This "perfect health diet" is sald to linuar afterwards with the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the pro Plenty of pure cold water is recommended and drinking, as water is most beneficial for building up the wasting as water is most beneficial for building up the wasting tissues. This is severely simple living, carried to the extreme of cautious system, and would entail too much self-deprivation for most folk; but it points the right way. Bacon and all salted meass must be abstained from altogether by those-subject to rashes or eruptions, at any rate when symptoms of the skin trouble appear. (See also Complexion.)

**Electrical walk is by many deemed the superst of

Electrolysis is by many deemed the surest of depilatories; but for its practice expert professional skill is requisite. It gets to the root of the trouble, which no caustic application can accomplish without occasionno caustic application can accomplish without occasion-ing harm in excess of the good it does, and the plucking out of superfluous hairs rarely sees the end of the mitter Electrolysis is recommended as a valuable outside aid to the toilet of all requiring and able to obtain the benefits it can convey. Not only is it of depliatory effectuality, but it can be applied to the cure of neuralic affections and the removal of unsightly scars, outgrowths, or indentations occasioned by injury or disease. But no "quack," male or female, will be permitted to apply the electric needle to any part of

permitted to apply the electric needle to any part of any wise person.

Exercises should supplement the toilet; exercise of every rational sort; muscular and of the respiratory organs (see Breathing Exercises). The brisk walk is a very potential beautifier, if taken regularly in the purest available air. It will give great assistance to the healthy in the way of conserving their good condition; it will help to thin the fat (see Obenity), it will develop the abnormally thin. Then "Exercise, Exercise "—every morning, and as early as

you can. Don't say you "haven't time"; make time, adjusting your rest and your daily duties accordingly. Your good looks and good spirits will be your long lasting revards. (See alse Massage.)

Expression. No face can be beautiful, no matter how richly endowed with the regular features, if the expression is not charming. It need not be weakly amiable, but must indicate intelligence, the power of observation, and general kindness. The matter of cultivating a good expression is worth every woman notice. Very far-reaching are the words, "know thyself," and of more than biblical significance. A woman should have a hand-mirror, and sit by herself in a thoughtful and serious mood to try to know herself—not with the hope that the mirror will return a flattering message, but in the full glare of daylight (face to the light) and search for imperfections. A line here will tell her that sige compresses her mouth when sewing; a wrankle there will testify that when site reads she frowns; and a horrid little thing, which she tries in valu to brush away, will suggest the necessity of massage around the eyes. I wonder if there was ever a woman who did not think that her first "crow's foot" was a hair! If you study the faces of fellow passengers in the ounbins, or in other commonplace public vehicles, you will be astonished to find how public vehicles, you will be astonished to find how really few persons have a nice expression when the features are in repose. One wears a worried look; her neighbour a discontented one; another has an unreliable and weak expression about the mouth, which would perhaps prevent her successful application for an appointment. The prospective employer would say she had a weak mouth, for most people who pride themselves on being students of human nature are very superficial, and to them a drooping mouth means melancholy, a lifted corner a sineer, etc. In reality, there are many qualifications for each mark of expression, but in the instance named, the mouth may be perfectly whell-shaped, and the unpleasant expression merely a matter of an unfortunate habit. Rounding merely a matter of an unfortunate habit. Rounding merely a matter of an unfortunate habit. Rounding corners of the mouth are not looked upon with favour, corners of the mouth are not looked upon with layour, and usually indicate a real necessity for a change in character. The halist of observing will cultivate a nice expression of the eye, and the smile should be studied most of all. If the teeth are ugly, there is no reason why a smile should reveal them aggressively to the world. I hear someone say that this will induce affectation, but that does not at all follow. There is

affectation, but that does not at all follow. There is much that can be done on these lines, but a word to the wise—and what woman is not wise?—is sufficient?

Byses. An entinent writer has remarked, "Most children are born with light eyes, but a great many of them exchange them for dark cyes as soon as they realise their mistake." The relative beauty of light or dark cyes is, however, as in every case of individual beauty, morely a matter of taste. Beauty must be "in the eye of the beholder" as well as in the eye that is looked upon. Time was when novelists made the dark-eyed girl "as dark of soul as were her orbs," while all the virtues were ascribed to the blue-eyed unidens. Thackeray tried to upset this theory by giving his dark-eyed damisels treacherous. Be that as it may, the beauty of the eye is not so much a set may, the beauty of the eye is not so much a

giving his dark-eyed heromes depth of soul and making the blue-eyed damsels treacherous. Be that as it may, the beauty of the eye is not so much anatter of colour as of shape, size, and expression, and the cleanness of the white surrounding the iris. Stolouris an important factor in the attractiveness of the eye and has to be counted with. Brightness, soulthness, sympathy, are the leading qualities.

To keep the eyest clear and bright they should not be subjected to unnecessary strain. Nothing can be more injurious to the eyes than to strain the sight by reading or working in an uncertain hight. Never read in a doubtful light, and always have the light falling upon the book from behind. Do not expose the eyes to the glare of strong sunlight unduly, or to that of brillantify-lilmunsated places of assembly; and be careful to protect them from injury by dust and other foreign substances. "Mind your eye" is good homely counsel. Some people suffer from a constant infammation of the eyes, which not only causes them much discomfort, but servously detracts from the beauty of the organs of vision. The most efficacious eye-wash in a case like this is a mixture of borax and

camphor-water-not spirits of camphor. The propor-

camphor-water—not spirits of camphor. The proportions should be ten grains of lorax to an onnee of camphor water. Always, in making the tollet, carefully bathe the eyes. When the eyes are work no better or more harmless lotion can be found with which to bathe them than diluted cold test.

Hyebrows, Thes. The eyebrows can be trained to almost any shape by the exercise of prtience and care. When the growth is too thick and busky, they can be trained with the tips of the fingers to grow in the desired shape. Dip the finger-tips into a little rose-oil before manipulating. When the line is uneven the offending hairs may be removed with a pair of small tweezers, or treated by electrolysis. If the eyebrows are too thin, clip them neatly and cautiously with sharp curved visisors and rulb into them a little good cream or vascline at night. This will la a short

with sharp curved scissors and rub lnto them a little good cream or vascine at night. This will in a short time appreciably improve the growth.

Eyelashes, The. The longer, thicker, yet slikler the lashes the greater beauty will they lend to the eyes. Clipping the eyelashes once in every two or three months is very beneficial to them. It should, however, be done with extreme care, a pair of curved scissors being used. The timiting occlouestion of the area where being used. The tinting or colouration of the eyelashes is all very well, for stage effect; otherwise it is best left alone. Nature provides lashes of the right hue for all eyes; the owners have only to keep them in trin,

all eyes; the owners have only to keep them in trim, not try to change their hue.

Faoe. The. Care and assidulty in cleansing the face cannot be too strongly insisted upon; neither can the accessity for using only the most reliable soap be overemphasised; and here it need only be said that Pear's "the purest and the best." Steaming the face occasionally is commendable. To do this without going to the expense of elaborate apparatus, place about a quart of boiling water into a hand-basin, hold the face with the hair well pinned lack and a handkerchief folded across the eyes, over the basin, and thew a large Turkish towel over the head, letting the ends fall round the basin to keep the steam in. This will open all the porce of the skin, and the face should be carefully wheel with a soft linear rag or pad of cotton wool afterwards. Gentle friction is good for the face; so is massage, which keeps the muscular tissues in tone. Fuffiness under the eyes is often due to a relaxed condition of the skin. The best remedy will be found in the use of a lotton, composed of twenty grains of

condution of the skin. The best remedy will be found in the use of a lotion, composed of twenty grains of tannic acid to an ounce of glycerine. It should be applied night and morning with a fine camel's har brush. See also Bathling, and Complexion.

Fat, to Reduce. (See Obesity.)

Feet, The. No one can possibly be healthy who does not keep the feet scrupulously clean. In the spring and summer, when the warm weather induces increased persplration, it is not too often to wash the feet every night before retiring to rest. This should be done in cold water, excepting in cases when this is found to give the bather a chill, when tepid water should be substituted. An octogranian once told the should be substituted. An octogenarian once told the writer, in reply to a query as to how she had such marvellous health at her advanced age, that she had washed her feet regularly, without intermission, every night since she was a child, and to that fact, and to the wasting of son, well-fitting boots she attributed her having passed through life without illness. There is nothing southes sore, tired feet so much as immersion

is nothing southes sore, fired feet so much as immersion in warm water, and they are strengthened if a little ceasalt is added. Care should be bestowed on the regular trimining of the toe nails, after lathing the feet.

A good authority on books asserts that a woman with large, unshapely feet can only a find to wear a laced boot, and never a low shoe of any kind. Button-boots are not to be recommended, as a pretty foot suffers considerably in them. No matter how firm the buttons, they "give" to the motions of the feet, and, if worn regularly, entirely ruin a shapely ankle. Laced boots, on the other hand, tend greatly towards the correction of any faults a foot may possess. Button-boots encourage the spreading out and unnatural development of a good-shaped foot, and are the cause of many a weak ankle. Newer constrict the toes into pointed shoes, but leave them room for free and separate motion. (See also Corns.) also Corns.)

Blistered Fast are always painful. Those subject to

them are advised to wear soft, good-fitting, merino socks or stockings, and at night to take a small portion of Russian tallow, drop it in cold water, rub it on the palm of the hand with a few drops of brandy, and apply to the bistered places. This will have a very healing effect,

Boots and Stockings should always fit quite comfort, ably; people often make the mistake of thinking that hard, tight-fitting boots are the sole cause of coms. Boots and shoes that are two laws are requility fruitful for member.

hard, tight-fitting boots are the sole cause of coms. Boots and shoes that are too large are equally fruitful in producing them. All foot-gear should fit perfectly, not too tight, and not too roomy. Again it is a mistake that many women fall into, to wear thick woollen stockings in winter. This sort of hoslery renders the feet tender, and causes undue perspiration. Cashmere is infinitely to be preferred, and can be worn well on into the summer, until cotton, Lisle thread, or spun silk are adopted instead. Care should always be taken that the stockings do not winkle, as this also causes the skin to harden, and ultimately induces coms. The the stockings do not wrinkle, as this also causes the skin to harden, and ultimately induces corns. The same thing occurs when heavy leather boots and shoes are worn, and it is well to be particular when selecting new footwear of any kind to get soft makes, and, if possible, the very best. This, in the end, is the truess economy; poor footwear is a terrible "let down" to anyone aspiring to dress well or took well.

anyone asping to cress well or look well.

Figure. The. One ought to make the best of one's figure. Not by tight-lacing to malform the walst (see Walst), but by exercise and hygienic hyding to cultivate symmetry, grace, and correct deportment Angularity is often as much a matter of habit as of Angularity is often as much a matter or habit as of actual physical structure; adipovity, the outgrowth of idleness, "scraggliess," the penalty of neglect. The figure to be clothed should be clothed according to its attributes and contours; not concealed by an imitation of some other person's habiliments, that other person being, very likely, built on totally differing lines. The tall figure ought not, as rule, to be direased in white tall figure ought not, as a rule, to be dressed in white or very light raiment, or further elongated by towering headgear. Light-coloured, loose clothing will, how ever, tone down excessive thinness to the eye. The well-proportioned of good average height may be any material of hues not out of harmony with theu complexion, almost any patterns; but the full figure looks best in dark or subdued shades, while striping in the design for the buxom ought to be narrow, and markaged in the draping to give length of line up and down, not width-wise. The tall can appropriately have a horizontal trimming and pattern scheme; the dumpy should don the longest and plainest skirts they can carry, eschewing large patterns and criss-cross can carry, excheming large patterns and criss-cross lines. Sho, sleeves will not do for the "skinny" and angular, nor will low-cut bodices; but square bodices can be made to cover concavities of collar-bone with can be made to ever contravine to contravine with gathering may be dijusted to supply a seeming fulness to the frail by the cleer costumer, while fold arrangements across the cleet can be experty managed to "suit all figures." When the feet and ankles are not handsome the skirts may be worn long enough to render the fact unobtrusive, and so on.

Flushing resy be the outcome of nervousness, want of self-control, or hurryong from one entourness to another. Again, it may arise from indigestion. The furtive powder-puff is powerless to conceal it altogether. But conformation to hygienic conditions

altogether. But conformation to hygienic conductors will upually obviate it.

Food. (See Diet.)

Froat, Protection Against. (See Complexion.)

Froat, Protection Against. (See Complexion.)

Gloves form an important item of toilet appanage (See Com-

Gloves form an important item of toilet appanage, adding to, or detracting from, the good appearance of the hands, as well as forming their appropriate protection out of doors. They should always be carefully chosen, and there are more important considerations than their colour and the number of the buttons. Black gloves are generally less elastic that light or coloured ones, and cheap grades are dear at any price. Dressed kid usually retains its freshness longer and the more durable than cade. and is more durable than sucide. The best and most serviceable kid is soft and yielding. A glove so small that it cramps the hand and prevents grace of motion gives poor service. Short ingered gloves are ugiv

and certain to break soon between the fingers, if not at the tips. The way in which a glove is first drawn on and shaped to the hand has much to do with both its beauty and durability.

Grey Hair, Keeping in Condition, and Grey Hair, Frewenting. (See Hair.)

Hair Dressing. (See Colffure.)

Hair, The. Rubbing the hair down with a clean silk handkerchief every day, after brushing, has a wonderfully brightening effect. But to keep the hair glossy and bright, it should be well brushed every might with long even strokes of the brush and a glossy and bright, it should be well brushed every nught with long even strokes of the brush and a strengthening fotion frictoned into it occasionally. An ounce of cantiarides mixed with six ounces of castor oil, scented with eau de Cologne and rubbed into the roots, is good both for the growth and appearance of the hair. One thing to be remembered about the hair is that it appreciates the air and sunshine as much as do the flowers. It is an excellent plan to occasionally let the hair lang down over the shoulders, and to sit in the sunshine with it like that. To wear the hair dressed all day and then at night retire with it closely plaited, is to do it a serious injury. In most caves the natural oil of the hair becomes insufficient for its needs in middle life, and it well to rub into the scalp a little pure olive oil, or to comes insufficient for its needs in middle life, and it is bell to rub into the scalp a little pure olive oil, or to brush the hair twice weekly with a brush dipped in brittle, although it produces a "fuffiness," which many like, and helps the limit to dry casily. Borax has the same good effects without being injurious. The hair should be brushed thoroughly night and morning not a few hasty whisks of the brush, but long, even strokes, with a firm bristled brush. Whale-bone brushes are good, and brushing continued with one for the space of five minutes will work winders. Metallic brushes should be avoided. The hair cannot grow at all if the ends are split, and therefore a monthly singeling is advisable. To accomplish this, the hair should be divided into strands, each about the size of the little finger, and twisted hard. Hold the lower end of the strand in the left hand, and pass the partity thand to the roots, thereby exposing all tile end of the strand in the left hand, and pass the party-closed right hand to the roots, thereby exposing all the unruly ends. With a lighted taper these can be easily snged. I do not advise the cutting of the hair, but if it is done, the cuds should be cauterised; if not, the hair literally "bleeds," and vitality escapes. There is a system of circulation in each tube of hair, quite similar to that of the human body, and there is no part of the body which responds more gratefully to any aftention or care. any attention or care,

Regular Shampooing, once every threqueeks or a month, is advisable for the hair. An excellent and inexpensive shampoo can be prepared at home in the following way:—Shave about a pound and a half of Pears' soap into a quart of hot water, add to it a large teaspoonful of powdered boran, and a pint of bay rum. Rub this well into the roots of the hair with gentle friction, rinse out all the soap with warm water, and after it is quite dry, rib a very little rose oil into the roots. This treatment will give the hair a beautiful

roots. This treatment will give the hair a Deauthui silky appearance.

Another good hair wash, which may be given with advantage occus@hailly, is made thus: Pour one quart of boiling water upon a piece of rock ammonia as large as a filbert, and when cool enough to put the hand in, work to a lattier by beating. Rub well uito the roots of the hair, then into the hair itself. Afterwards wash out the lattier with cold water, and also douche with cold.

out the lattier with cold water, and also douche with cold. When the hase appears dry and lipters after its regular washing, it is a sign that it needs a little tonic, and this can be given it by mixing two tablespoonfuls of castor oil and the same quantity of gigcerine into a four-ounce bottle with enough alchol ic cut the oil. Shake the mixture until it is thoroughly mixed, and massage a few drops into the roots of the hair with the tips of the fingers.

tips of the fingers.

To prevent light or golden hair going dark, heat up the yolks of two quite fresh eggs with half an ounce (one tablespoonful) of tincture of Quillais saponaria, and with a toilet glove rub the whole of this mixture well into the scalp. Next in a quart of hot soft water beat up one ounce of the same tincture, and a heaped tablespoonful of powdered borax

(dissolve this first in two tablespoonfuls of tapld water) and then wash the head and hair in the liquid. This will produce a plentiful lather when rubbed into the egg huxture alseady on the head, and may be removed by copious rinsing, first in hot soft water and then in cooler. Dry with hot towels.

Have may be kept from going grey prematurely sometimes. Take a wash of alcohol and strong black tea in equal parts. Add to this a handful of kitchen salt. This forms a simple and harmless remedy, and will often not only arrest the greyness but strengthan the hair and increase its growth.

the hair and lucrease its growth.

Grey hair can be made to keep its silvery tone if constantly washed and rinsed in clear water in which

a little blue has been shaken.

For falling hair an excellent preparation is made by adding to eight ounces of alcohol (spirits of wine), by adding to eight ounces of alcohol (spirits of wheels half an ounce each of glycerme, spirits of lawender, and tincture of cantharldes. Eight grains of sulphate of quinne are then added, and the mixture well shaken. Any perfume desired may be used for scenting it, and it should be well rubbed into the hair night and morning. (See also Baldness.)

Author recommended have successed in made

Another recommended have preserver is made thus: Take half an ounce of camphor (finely powdered) and moisten with two tables poonfuls of gin. Put this into a pini bottle and fill with water. Apply

Put this into a pint bottle and fill with water. Apply with a sponge to the roots of the hair twice every week. Brush the hair at least once daily, using a brush with rather long, soft bristles. This "preserver" will promote the growth of the hair, besides keeping it clean, soft, and gloss. "Curring fluid for the hair may be made and used thus: Take two ounces of borax, one draching gloss of the state wo ounces of borax, one draching gloss of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of

spirits of campinor. Damp the hair with this before using the waving irons and the crimp will remain in it during the most inclement weather.

Another curling method. To obtain a permanent artificial wave in the hair, rub a little scented vaseline artificial wave in the hair, rub a little scented vaseline upon it, leaving it on for a few minutes and then wiping it oil with a soft linen ray. After this, apply the waving irons, and the hear will retain its waves for a long time, in spite of wind and damp. A great deal of the successful waving of the hair depends upon heating the irons employed to the correct temperature. If they are too hot they will dry the half and render it harsh and brittle, while when too cold they will make but a trifling effect upon it.—

**Hands**, The**. The care of the hands is an important toilet consideration. An excellent and simple wash for keeping the hands white and smooth is made of equal parts of vinegar and water. It is a good plan to keep a bottle of it prepared and standing

good plan to keep a bottle of it prepared and standing in the kitchen closet. Wash the hands first thoroughly in warm water, wipe them dry, and rinse well in the mixture. The same preparation is good for removing stams from the hands.

Use gloves at housework whenever practicable. dusting, for instance, wear a pair of the channois leather gloves sold at the stores under the name of housemand's gloves. They cost little and last a long time, and keep the hands and nails quite nice.

To whiten the kands this is a good recipe: Twenty drops of tincture of benzoin, dissolved in one ounce of crops of micture of benzoin, dissolved in one ounce or eau de Cologne. Add ten ounce, of elderflower water and the strained juice of two linns (or of a lemon if you cannot get limes). Shake well each day for a week or two in a bottlef and apply at night, after washing, with a soft piece of flannel or sponge, letting it dry in.

As a preventive of chapped hands nothing is better

As a precentive of chapped hand; nothing is better than an application of rosewater and glycerine well rubbed in after washing, before the hands are perfectly dry, the drying process being finished afterwards. When already badly chapped, a few drops of pure glycerine should be placed in the paim of one hand and well rubbed into the other, and a pair of loose-fitting gloves worn during the night. The application of pure glycerine to hands which are badly chapped is rather a heroic remedy, but it is more efficacious than anything else, all trace of roughness disappearing in the course of one or two applications.

A good plan is to keep a camphor-ice ball on the washstand and rub it over your hands before drying

washand and rub it over your hands before drying them. Be careful never to go out without glores, Hats, Choosing. Considerations of height, slape of face, complexion, and the age of the Searce, enter into the wise selection of headgear. Heavy trimmings and angular or eccentric shapes are diffi-cult to "carry off "gracefully; and bonnets and toques, however modelled and ornamented, should frame the however modelled and ornamented, should frame the head completely, the hair arrangement being managed to accord with and complete the general effect. A large hat may be draped and trimmed to "set" and look light; and as to the colours employed in millinery, the aim ought to be to larmonise with and "bring out" dominant tints of eyes, hair, and complexion, and so brighten the entire presentment. The right shades in white or the lighter colours are usually becoming; intense hues and deep black, unless properly relieved by the trimming, the reverse. Green or white ourfit

white or the lighter colours are usually becoming intense hues and deep bucker unless properly releved to be the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of

and navees. It should allore a pure white renection of pure white paper at any reasonable distance, and give no distortion of form or variation in shade in the pictures it be resented of the oilecus placed before it. Let it be kept quite clear by frequent polishings with soft material; should this be regularly attended to no

soft material; should this be regularly attended to no other cleaning will be requisite.

Maniouring. (See Nalls.)

Maniouring. (See Nalls.)

Massage. Massage, properly carried out, is good for giving tone to relaxed muscles, restoring plumpness, and banishing wrinkles, wherever they appear. It also acts as a preventive against this undesirable condition, and is particularly valuable when skilfully applied to the delicate muscles of the face. The woman who is going to give her own face a "course," must remember that the skin of her face cannot stand very musch handling, and that the lines and wrinkles very rough handling, and that the lines and wrinkles which she desires to banish must be gently smoothed and patted out. To obtain the best result, the finger tipe should be dipped in sait and water before starting the manipulation, and constantly during the process as the salt helps to stimulate the tired muscles. the manufactor, and convenience. It is not at all nearly on mostles. If preferred to the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of the safety of t

to employ a professional manicurist to obtain satis-

factory results with the nalls, however well off one may be. Soak hands or feet for fully ten minutes in warm soapy water, in which are a few drops of lemon juice, before commencing operations. This will soften and lousen the cuticle. Paring done, and filing down attended to where necessary at the edges, apply an orange-stick—procurable at any pharmacy—to each nall, raising and pushing the skin from the nail. Dig the point of the stick in a little piece of lemon and clean the nails, after which rub them with a little vaseline. Wipe the vaseline off with a soft rag and pushing points and the nail pointer. Because the toe-nails are usually out of sight, they are often neglected, but not by the wise. They require as much care as the nails of the fingers. Manicurer sets "can be obtained at all prices, and no woman should be without these toiler accessories. Manicure Reeds, Thas A graceful and well- a beautiful face and figure, and the cate of it is worthy of consideration, especially by women who go much into society. Whether the neck be too fat or too thin massage is equally beneficial. If it be too fat, judicious massage will do nuclt to reduce the superfluous flesh, while if, on the other hand, it be too thin generous friction, with a small quantity of cod-liver oil or a maxture of vaseline and almond oil will, in a very short space of time, change a thin and angular neck into one quite passable as regards beauty. The great fear in

mixture of vascine and amond oil will, in a very short space of time, change a thin and angular neck into one quite passable as regards beauty. The great fear in connection with the use of oils on the skin—the growth of superfluous hair—need not enter into the consideration

space or time, change a tinh and angular neck into one quite passable as regards beauty. The great fear in connection with the use of oils on the skin—the growth of superfluous hair—need not enter into the consideration of the treatment of the neck, as it is very selfour that there are any hair folicles on the neck which could be stimulated into growth by fatty substances. Cost-tower oil—just mentioned—is one of the most feeth-forming oils that can be obtained, and if once door, it would be well worth a timb the unpleasant odour, it would be well worth a timb the unpleasant odour, it would be well worth a timb the unpleasant odour, it would be well worth a timb the unpleasant odour, it would be well worth a timb the unpleasant of the timb that the Nack is than or "scraggy" it generally happens that the rest of the body is also of poor physique, and in this case care should be taken to improve the general health by a liberal diet of fiesh-forming foods, such as cocca, milk, vegetables, and fruit. One of the best and surest ways of improving the appearance of the neck is by means of breathing exercises. The benefit of the continual practice or good breathing exercises upon the neck can easily be proved by careful notice of those who make singar a profession. They invariably have beautiful necks without any unsightly hollows. (See Breathing Exercises, China and Throas.)

Obesity should be guarded against by exercise and careful dietary, especially when middle age is approaching. Then it is that the tendeucyto put on too much fish gives to be and a ratiful dietary with an inclination towards judoience, This must be combated. Shake off drowsy feeling by resolute activity, do not give way to unnecessary indulgence in sleep. Walk and work, and regulate the dietary with care. It is not necessary to starve at all. If when you feel you are applied to the dietary with care. It is not necessary to starve at all. If when you feel you are greated for use, many may be made up at home, suitable for every toiler to be done and

of rectified spirits of wine (85 per cent. alcohol), five ounces of essence of lemon, twelve and a half drachms of essence of cedrate, four ounces of essence of bergamot, one ounce of essence of lewender, and one ounce of tincture of benzoin. The essences should remain in the spirit for dissolution and amalgamation for a full week before distillation and bottling for use.

A good perfume, which is also a preventive against moths, may be made of the following ingredients: Take of cloves, carraway seeds, nutneg, mace, cmamon, and Tonquin beans, each one ounce; then add as much Florentine orris-root as will equal the other ingredients put together. Grind the whole well to powder and put it into little bags among your clothes, etc.

A dainty perfume for the breath is made of the white of an egg, the juice of a lemon, two teaspoonful of sugar, a dash of almond oil, and another of rosewater. These mitst be beatten and stirred for hours and then carefully bottled. A half-dozen drops in a wineglass of water and used to rinse the mouth will make the breath sofily sweet.

Fourdar, (See Complexion, Cosmatics. Teach, etc.)

Teeth, etc.)

Testh, etc.)

Puffiness. (See Faca.)

Rad Hands. (See Hands.)

Rad Skin. (See Complexion.)

Rast is as requisite as ablutton and exercise, at the proper time, to enable one to obtain the best effect from the tollet, other things being equal. Never keep on, either with work or pleasure, until you are "done up." Get all the beauty sleep you can, remembering the sage old maxim that one hour before midnight worth two attrewards. Eight hours sleep is absolutely essential to the woman who wishes to keep the bloom of youth, and, whenever possible, she should close her eyes and rest completely for at least ten minutes during the day. This little rest, although it be numbered only by minutes, is more helpful than many would believe, but it must be an absolute rest. Try to let the mind remain a blank, and throw the whole weight of the body upon the couch, giving every weight of the body upon the couch, giving every muscle a complete relaxation. Another golden rule is, Don't worry. Look always on the bright side of things and cultivate cheerithness, as worry is fatal to youth and beauty. (See also **Sideop and Tried** 

things and cultivate cheerfulness, as worry is fatal to your and beauty. (See also Sleep and Tirad Falling) Bkin. (See Com plexion.)

Salts, Smelling. Lavender snelling-salts, which are so refreshing, are easily made at home, and here is a good way of domy it. Carbonate of ammonia, cut in squares, eight ounce; oil of lavender, hal' unce; oil of bergamot, half-ounce; oil of cloves, one fluid ounce, blist and rub the oils well together. Put the squares of ammonia into your smelling bottle. Pour enough of the mixture over the salts to cover them so ntily.

Soalp. (See Hair.)

Shaving is one of the chief toilet operations of the 'mere nale," and it may be made e'ny or irritating. First, the shaver requires a good and well-proven razor, kept slarge by "setting" when requisite, and skilful stropping at and during each time of using. Then the face should be steamed, if possible, or the beard softened by the application of hot water and thereough subsequent rubbing in of good lather. If a stick of Pears' Shaving Soap be employed, there will be no trouble with the stiffest beard or the most sensitive skin. The thing to do is to rub in plenty of thick lather, then the razor will reap the "subble" with the soap smoothly and painlessly, and girthere be shaver. The "Shaving Sticks" sent out by Pears in such columnity are so expertly prepared that they permit of easy shaving with even cold water where hot is difficult to obtam—occasionally a great advantage—and the stand.

to obtain—occasionally a great advantage—and they last a very long time.

Shouse. (See Feet.)

Shouldars may be kept shapely by exercise, and smooth and white by cleanliness and the conservation of the general health. Physical drill, skipping, and any pastime which calls into activity the muscles of

the arms and shoulders, should have every encourage ment. Regular exercise of the right kind, to affor relaxation from the attitudes of compulsory restraints occasioned by the daily avocation, must on no account the neglected; round or drooping shoulders are the sure penalty of neglect. Those engaged in sedentary pursuits or condemned to do much stooping of any hind, ought to lean backwards whenever they can not lounge further forward for momentary relief. Shoulder braces may be worn for support, where necessary, with advantage, elastic and broad of strap: and swinging from a suspended bar, held by the hands, is good; while swinming will afford especially beneficial exercise to the shoulders. If the muscles are given their due share of motion, tension, and retractation regularly, the beautiful natural slope—neither too pronounced nor too "squat"—of the shoulders will be preserved, with the proper plumpuess and the party glow which no enamelling can successfully initate.

Skin, See Complexion, Face, Indigestion, and Wrinkles.

Sleep, Unless sound sleep in sufficiency be regularly obtained no amount of trouble taken with the toilet will have its adequate reward. Insomnia is a fell destroyer of beauty. Here is a recipe for its varieties and the stoolet with place the feet or.

regularly obtained no amount of trouble taken with the toilet will have its adequate reward. Insommla is a fell destroyer of beauty. Here is a recipe for it avolcjance.—On retiring fa: the night place the feet or a really hot water-bottle, then take in sips a breakfast-cupful of hot milk, chocolate, or beer extract—one kind of nourishment one night, another the next. After that, have a handkerchief folded in four, saturated with equal parts of rectified spint and cold water, laid across your orchead in such a way as to cover both temples. When the lights are out sleep should come to those who adopt this method.

Smelling Salts. (See Salts.)

Soap. Scaps for toilet purposes cannot be too carefully selected, for much of the success of nearly all the operations of the toilet depends upon the quality of the soap used. Soap is the leading agent in laying that foundation of perfect cleanliness without which the various functions of the toilet cannot be performed with necessary completeness. Inferior toilet caps, whose defects are often disguised in strong perfumes or dublous colourings, should never be used for even the most ordinary acts of personal abilition, much less for the delicate offices pertaining to the making of the toilet and the preservation of physical beauty. It is toilet and the preservation of physical beauty. It is not enough that a soap should make a profuse lather, not enough that a soap should make a profuse latter, or that it should easily remove durt from the skin, for many pernicious soaps will 1 noder this surface service; what is wanted is a soap that has been specially propared for the toilet by expert scientific knowledge that contains only those lightedients which are kind, softening, soothing, and refreshing to the skin—a soap that carries with it the elements of both health and that carries with it the elements of both health and beauty—a soap that is natural and wholesome in all its components and helps nature in obtaining one of the greatest of all attractions, a lovely complexion. Such a soap is Pears' Soap. For upwards of a hundred years this renowned soap has received the praise and commendation of leading scientists and the most celebrated beauties; and such an economy of production has been attained in its manufacture that it is obtainable at a price that brungs it within the reach of obtainable at a price that brings it within the reach of all. Pears' Soap represents the highest standard of toilet soap that the art of man can make from nature's

ani. Pears Soap represents the aignest standard of toilet soap that the art of man can make from nature's choicest materials; and is at once the safest and most reliable soap that can be brought in contact with the skin. It gives forth its delicate saponaceous qualities readily and ad-quately, and is at the same time the least wasteful of all toilet soaps.

Sponges sweet and clean. An old way was to immerse them for several hours in cold buttermilk, washing out in clear water subsequently: but a better method is to soak in clean fresh water into which the juice of a lemon has been squeezed, any toilet sponge that may seem at all sticky. In buying sponges bear in mind that the best are the cheapest.

Steaming, Many people are undecided as to the advisability of steaming the face, but the treatment is an excellent one if properly carried out. On the other hand, much injury will be done if carelessly or ignorantly proceeded with. The proper way is to fill a tall

jug with boiling water, hold the face over it, and throw a towel over the head, covering also the jug, to prevent the escape of steam. The steam must not mix with the air before coming in contact with the face. Once or twice during the ten minutes of steaming gipe the face with a soft cloth. When thoroughly steamed, dash cold water on the face and wipe dry. Then apply face with a soft cloth. When thoroughly steamed, dash cold water on the face and wipe dry. Then apply some very good cold cream in a rotary movement from the tips of the fingers and again wipe. Never fail at this point of the process to apply an astringent lotion or Eau-de-Cologine, to contract the pores which have been relaxed by the steaming. Neglect of this will produce enlarged pores, than which there is nothing ugiler or harder to get rid of. Now, dust the face all uguer or harder to get rid of. Now, dust the tace all over with a healing powder, or better still, powdered oatmeat, and do not go out into the cold air for at least an hour. This treatment of the ince once a week will accompilish a great deal in keeping the skin soft and youthful, but if steamed too long or too often, the skin will soon become "stringy."

Sunburn. (See Gomplextion.)

Sunburn. (See Complexion.)
Style of Dress. It is obvious that a woman's Style of Dress. It is obvous that a woman's beauty may be enhanced or very much marred by her style of dress. No one can lay down hard and fast rules, as each individual must be a law unto herself. A few general principles may be regarded as infallable guides. A woman looks taller in stripes and according to the same principle, the stout woman should avoid plauds. Curiously enough, the extremely large check does not so much increase the apparent size of the figure as do the small ones. Purple is a colour to be avoided by the agrenuaturely old, or stout woman, but navy blue is a wise choice. The pointed finish to a bodice is only for the stender sisterhood. It is a common error to believe that the stout woman should wear the pointed basque, but this brings her should wear the pointed basque, but this brings her waist-line some inches below where nature intended it, should wear the pointed nesque, but this orange her walst-line some inches below where hatter intended it, and furthermore increases, its size. Bodices for the stout should end at the waist, and a narrow belt of instreless material should be her choice. If the gown can be cut all in one, so much the better, but even the princess styles wrongly handled will spoil a naturally pretty figure. All light colours give size, but this does not apply to white. Thin materials over linings, or shaggy innsites are not so becoming to stout figures as are the smooth faced cloths, and satin, except the most supple worves, make one look matronly. Large hats should be worm by tall women, and a lat turned sharply up at the side seems to add inches to the short women. A bow at the back of the neck, either of ribbin or tulle, has a curious effect of adding both height and dignity to the wearer, as does also a hat turned up at the back and having its brin to extend over the face. Horizontal trimings are for the slender, and vertical bands for the stount.

Teating. The first step towards possessing heautiful teeth is to have the proper bruth for cleaning them.

Testa. The IRSL step towards provessing ucaummenteth is to have the proper brush for cleaning them. The bristles should be short and closely set, but not ostiff. In cleaning the teeth, there need be no alarm if the guins bleed. This is often Nature's way too sm. In Calaming the teeth, there need be no alarm if the guins bleet. This is often Nature's way of relieving herself. Twice a day is the minimum of times that the teeth should be brushed, and after each time of eating is better. If only once a day is the habit, the night is preferable to the morning, as it is most important that no foreign matter be left in the teeth to decay during the night. In brushing the teeth uso tepid water, as too hot or too cold water has a tendency to crack the enamel. The movement of the brush should be up and down as well as across the teeth, and it is an excellent plan literally to "scrub" the teeth once a week with moistened salt. This is rather severe, and should not be indulged in often. Sometimes the question arises as to the effect of smoking upon the teeth, There is no reason why a smoker's teeth should suffer from the habit, except that "a little extra attention must be given to their minaculate cleanliness. A piece of dental floss should always be at hand, and run between the teeth after eating, and a extra attention must be given to the according to the cleanliness. A piece of dental flows should always be at hand, and run between the teeth after eating, and a little genite massaging of the guins once a day, will help to prevent the disaster of "receding" guins. In most cases the mouth is inclined to be crowded with teeth, and many doctors advise having one or two drawn when the child is about ten years of age. The guins are then soft, and the teeth spread to fill the

spaces thus left. If when the teeth first make their appearance they are irregularly set, much can be done by manipulation, practised several times a day during babylicod, while the gums are yet plastic. In always consult a reliable dentist as to the material of the tooth, In many cases it is not at all advisable to have the tooth stopped with gold, which pulls away from a too self tooth and induces more decay, while a silver or composition filling is far more satisfactory. Sound teeth depend largely upon the general health and constitution

depend largely upon the general health and con-stitution, but many people permanently ruin what should have been a good set by misusing their teeth. The tooth brisish should never be too hard, as a ver-stif brush is likely to irritate the guns and injure the enamel. When the teeth teel loose, as is sometimes the case, especially if a bad chill has heen taken, the guns should be painted with sal volatile, a fine camel's hair brush being used. Great care should be taken that the sal volatile does not come into contact with the lips, or blistenur will be able scall.

or blistering will be the result.

or blistering will be the result.

Spongy gums have a very pernicious effect upon the teeth. Where the first signs of "sponginess," or a tendency towards receding is noticed, an astringent toton should be applied to them night and morning, until an improvement has permanently taken place. A very good astringent totion is composed of tanna, bark, and myrrh. Any good chemist would mix these ingredients in their correct proportions if told for what purpose the totion was required.

Earh tooth should be cleaned by itself, front, back, and sides. Too often the fronts are well cared for, but the back and sides are badly neglected. While cleaning the teeth, the brush should not be moved from side to side, but up and down, from the gums to the edges of the teeth, taking care that the bristles of the brush pass between each tooth. These trifing precautions towards warding off decay will do wonders in preserving the teeth far on in one's life.

Tartar on the teeth is a trouble which is sometimes.

towards warding on decay win downless in preserving to teet his are on in one is life. Tartar on the teeth is a trouble which is sometimes caused by indifferent cleausing, sometimes by the over frequent consumption of nich foods or sweets. In either case it is decidedly unpleasant, and can leasily be removed from the teeth by a little magnesia. Place a little on the brush, and rub the tooth, or that portion of the teeth upon which the tartar appears, with it. After two or three applications, it will all disappear. Discoloured teeth, from whatever cause, should have a little fine powdered public-stone used to them. This should be moistened, and applied to the tooth with an orange-stick, and well rubbed on the discoloured spots. It should afterwards be brushed off, and the mouth ruised with an antiseptic wash. Punific-stone powder is one of the best agents for keeping the teeth in good condition as regards colour, and if not used too often could not possibly do any harm to them.

harm to them.

Tooth powders and tooth wg thes are many, and it is to a great extent a matter of personal fancy what sort is selected. Care, however, should be taken to discover if sciected. Care, however, should be taken to discover it the one employed contains anything which would be injurious to the teeth. Powders which whiten the teeth which they are covered, and in this way commence sow the seeds of their future decay. Prepared chalk, although a great favourite with many people, has tendency to make the teeth brittle and should therefore

be fixed with caution.

A good tooth powder recipe is the following:—blix well together two onnews each of powdered orris-root and camphorated chalk. Add twelve drops of eucopitypitys oil, and again mix. Keep in an airtight this

possible.

Decaying Teeth should be taken in time, and a good dentist consulted immediately; for often by expert attention a tooth can be permanently saved, while if neglected it may get beyond repair, and although art can do much now in the matter of artificial teeth such teeth can never equal one's own. Gold-filling at the right moment has preserved many a tooth for years in grood working order, and saved much pean, inconvenience, and expense.

Thinness may be overcome in many cases by improving the general health and by the adoption of a

nutritious and generous dietary. Exercise should not be excessive, and over-fatigue particularly avoided; at the same time as a much fresh air as possible is important especially if there be incipient ansemia. Special care should be bestowed upon the toilet, and attention given to the suitability of the costume; the clothing being warm, yet light, and adapted to give freedom and eccourage development. See size Figures.

Throat, Thea. To keep the throat slender and firm similar exercises to those recommended for the chin and neck (g.w.) can be indulged in with advantage.

"Tired Faeling." When a tired feeling arises, after some unusual exertion, a little rest should be loosened and a quarter of an hour spent in absolute rest, withevery muscle at ease. After this a warm bath loosened and a quarter of an hour spent in absolute rest, with every muscle at ease. After this a warm bath can be taken, with half a pint of toilet vinegar or eau de Cologne thrown into the water. After the bath athorough friction with a little cold cream and a good soft towel, followed by a dash of oris-root powder dabbed on the skin. After dressing again, a delicious sense of freshness will be experienced. See also Rast.

and Bleep. Tollet Accessories. (See Accessories.) Tonics, (See under Complexion, Hair,

each reneat.

Many foolish girls, and women of maturer years also, in the endeavour to cultivate a sylph-like walst, resort to tight-lacing, and constrict themselves in resort to tight-lacing, and constrict themselves in corsets several sizes too small, suffering inuch pain and discomfort at the shrine of vanity. Some even go to the extent of sleeping in what used to be called "stuys," which ought never to go beyond fulfilling the function the old name implies. Corsets should, wherever worn, be cut on anatomical principles, supporting and keeping the waist in proper and spapely chupass, and affording absolute freedom to the vital organs. (See Gorsets, and Figure.)

Winds, Protection against. (See Complexion.)

Winds, Protection agains with the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t few drops of lavender water. With the tips of the fines, start in the middle of the forehead and pass outward to the temples as a first step for a ten minutes' massage. Repeat this movement several times and then work in a rotary movement at the comers of the

eyes. If there is a bad wrinkle at the side of the nose, hold the fiesh firmly at one side of the lime by pressing the fingers of one hand against it, and with the tips of the fingers on the other hand press gently up and down the liac, principally up, and perform a little circles on assage from the line, outward across the face toward the ears. For treatment of wrinkles the direction of massage is always around and outward. Never stretch the muscles downward, and the tissues of the face toward the ears. For treatment of wrinkles the direction of massage is always around and outward. Never stretch the muscles downward, and the tissues of the face toward the ears. For treatment of wrinkles the direction of the stretch of the muscles downward, and the tissues of the face toward the earth of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of the stretch of t

cream, and left to dry on the skin.

A light, typringy site goes a long way towards preserving a youthful appearanc, and this can be maintained to quite old age by those of ordinarily strong constitution, by taking a short brisk walk every day in the open air, and, whenever possible, in the sunshine. It is a very true saying that more people permit themselves to "rust out" than are actually worn out with the work of the years. We should endeavour to keep up our activity by resolution and will-power by every legitimate means,

power by every legitimate means.

The times of the face, says a careful observer, inform one largely of a person's history. Horizontal lines across the forehead are found even in children who are across the foreness are found even in clinique. When the rickety or idiots, and being out in the sun with the eyes unshaded will produce them permanently, but they are natural at forty or earlier. Vertical lines between the eyes denote thought and study, since deep tween the eyes denote thought and study, since deep concentration contracts the eyebrows; grief and worry produce the same effect, and, frequently repeated, leaves a permanent fold in the skin. Arched wrinkles just above the nose indicate extreme suffering, either mental o, physical. The earliest wrinkles of all and the most unavoidable are those which run from either side of the nostril down to the mouth, and these either side of the nostril down to the mouth, and these are produced by smiling and even the motion of the jaws in masticating. But all these facial lines can be more or less semellorated by the cultivation, systemati-cally, of equability, and by taking timely pains with the massage treatments previously referred to. The preservation of youthful looks "pays" for any truble it entails, providing always it be intelligently pursued.



By Mrs. ADA S. BALLIN. Editress of "Baby: the Mother's Magazine."

## The First Year of a Baby's Life

By Mrs. ADA S. BALLIN.

The first year of a baby's life is fraught with far more dangers than any other. All the liattles of all the nations have not been responsible for so many deaths as carelesiness and ignorance cause. In many parts of England at the present day, as many as one-fourth of all the infants born die within the first year of life, and generally from two causes: (1) exposure to cold, which is the cause of all the diseases of the respiratory organs, bronchitus one of the chief causes of infantile mortality — and greatly retards growth, (2) improper feeding, from which result most of the diseases of the digestive organs, such as infantile diarrhea, catarrh of the stomach, and other diseases, which carry off their thousands annually. Both causes, namely, exposure to cold and unproper feeding, unite to swell the huge mortality which arises from what is called malnutrition, for if a child is not sufficiently warmly dressed, food which should go to nourish the body has to be expended in making heat, and the whole constitution suffers accordingly.

"A new-born child," says Dr. Braidwood, "may be regarded as a mass of animated clay, composed of different tissues, which, by proper exercise, may be developed into a healthy being, or he destroyed gradually or suddenly, by very simple means. All the tissues are at this stage of existence so delicate, and possess the power of such rapid growth, that, with care, they may be cultured to almost any extent, or may be stunted or otherwise altered, so as to lose their vitality at once, or remain amongst others of a healthy growth in an isolated condition. The healthy child develops into the healthy man, but a sickly infant can never become a truly healthy

These are weighty words. They contain the essence of all the science which creates a healthy adult life, and which secures the happiness of an existence that must be a healthy one before any good gifts of life can be gained or enjoyed. What applies to the children of the rich, applies with equal force to the children of the poor. There is not one law for the healthy upbringing of the child of the well-to-do, and another law for the rearing of infants among the masses. Proper food, due attention to cleanliness, and especially to the care of the skin, pure air, clothing of a hygienic kind—such are the landmarks which guide the sensible mother or nurse in baby management.

A haby's basket should be of wicker, and be lined to

A hapy's basket simulo be or wicker, and be lined in much the cardle, with washing cretonine or print. It should be in readinces for use, and stocked with the necessary articles well before 122 time of baby's expected advent. A mong the e-sentials are a complete suit of clothes, a famed apron, and a number of soft diapers. The requisite fittings should com-

One packet of cord dressings and powder. One packet of absorbent cotton wool.

Linen thread.

Needles, thimble, scissors, and cotton. Sponge and square of flannel. Cake of Pears' Soap.

Powder hox.

Pot of grease, composed of equal parts of vaseline

and zinc outtient.
Safety pins, large and small.
Thermometer for taking the temperature of room,

food, or bath. 100d, or Bath.

A flabby tongue shows debility, and that the digestion is impaired. In a new lorn infant, the tongue is generally rather white,

The Tongue, and this continues until the saliva becomes more plentiful. When the stomach and bowels are disturbed, and after other

disease where the temperature is high, the tongue is coated, but this coating is not so important in young infants as in older children, because it is sometimes

due to the milk not being properly cleaned off the all handkerchief, dipped in water in which a little boraz has been dissolved, should be well swabbed sound the gums and mouth, and if this is cone, that common disease of infancy, thrush, will news appear. If a child is healthy, it enjoys its food at regular intervals, and food should be given at fixed and definite times. If the child is feverish the little appear is the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control

water should be given to drink. During the first six weeks of life a child should have three or four motions, like thick mustard in colour and consistency, motions, like thick mustard in colour and consistency, during the day. If the motions are winte, it shows that the liver is sluggish; if green and sour-smelling, that the child is acid. If curds are passed in the gotions, the milk is not being properly digested. Towards the end of the first year the initions become imperfectly formed, brownish in colour, and thicker. Their consistency gets greater as more solid food is taken. It work the wirrow investment that the number taken. Offstearty ger spearce as no has not root or taken. It is of the utmost importance of the mother should always watch the Condition of the motion, and of the water passed by the child. If there is difficulty in passing water, the infant should be placed with its hips in a basinful of hot water, which will give with its hips in a basinful of hot water, which will give relief, and this should always be done if no water is passed for twelve hours. If a child is held out at regular intervals, beginning at the age of about two months, napkins can usually be left off at six months. If the water is strong-smelling or thick, pleuty of barley water should be given to drink, and a great mistake which people make in infant feeding is to think that milk is sufficient for both meat and drink, Little children want a drink of plain water once or twice a day after the first two months of life.

One of the most important guides to a child's health is its weight. The weight of an infant at birth varies from six to ten, or even twelve, pounds, but infants which, when born, weigh as that as the can all all pounds may grow little as three and a half pounds may grow op into perfectly strong and healthy men and women if they receive proper attention. The following table gives the average height and weight from birth to twelve months.

AGE.	HRIGHT.	WEIGHT.
Birth.	19t inches.	7 pounds.
z month.	201	74
# months.	21 ,,	74
3	22	ri "
4	23	12
	1 -11	14
ş ::		1 77 "
		15
å ".		10 "
	1 25 11	17
<b>9</b> "	251	
(U ),	20	19 "
41 .,	204	20 ,,
12 ,,	27	; 2I ,,

in the first three days of life there is always a little loss of weight, but at the end of the seventh day the child should be as heavy as it was at birth. Mere weight in a child may sometimes be due to over-feeding, and really a sign of ill-health rather than of good health,

seally a sign of ill-health rather than of good health, but if the muscles are firm, the eyes bright, the lips red, the tongue red and clean, and the inside of the spellids a good deep pink, the child is healthy. When the baby is born it is not necessary for it to have anything to take for the first few hours. Even if the mother is not able to nurse it for eight or ten hours after birth it will come to no harm, but after the first two hours, when the mother has rested a little, the baby should be not to the heasts every hour or two sats to simulate

when the mother has rested a little, the baby should be put to the breasts every hour or two so as to stimulate their action. Ho artificial food of any kind should be given until it is quite certain that the mother will not be able to nurse. The first milk which comes in the breasts is nature's aperient, and the old-fashloned plan of giving an infant castor oil, sugar, and

water, or butter and sugar, to relax its bowels, is a most injurious one, and should certainly be abandoned. Every mother who is not absolutely an invalid, who is, free from hereditary disease, and who has milk sufficient in quantity and up to the standard in quality, should consider it her imperative duty to nurse hebaby. It is too much the fashion nowadays for mothers to think that they are not strong enough to muce the babies, and fashionable physicians are appt to encourage this idea in order to please their patients, but even quite delicate women often make excellent nurses if they are careful as to their own diet.

A nursing mother should lead 5 cann and regular existence. She should take plenty of milk and infants' foods, abstain from alcohol

foods, abstain from alcohol Mother's Food, etc. and tea, and drink plenty of barley water. Her chier meal should be in the middle of the day, and she should abstain from coarse green vegetables, new potatoes, as has and seeds of fruit, and all row tegetables, as these are apt to cause flatulence. A good duet for a nursing mother is, for breakfast porridge or hominy, followed by fish or egg, brown bread and butter, and milk just flavoured with coffee or cocon under with nulk; at 11.20, milk and barley porming or homan, holowed by his or egg, brown bread and butter, and milk just fiavoured with coffee or cocos made with nulk; at 11.30, milk and barter, water, beef tea with tool or a bacut; dinner, fish meat, planily-cooked vegetables, milk pudding and full; i) his, a cup of occas with dry teast and butter, egg or fish: 9 30, cupful of infants food made with milk. If a mother is able to nurse her child even for a few weeks, the child beneits by it, but if ishe is strong and the milk supply is good, as shown by the thriving of the infant, she should continue till the end of the infant, she should continue till the end of the ninth month, beginning at about seven months to supplement her milk with one or two meals a day of some suitable infants food, or of prepared cower milk. If the mother is unable to nurse, it is necessary that the food should be adapted to the requirements or the infant's digestive organs. If Artificial Foods. must be remembered that the child has no teeth, no ptyalin in the saliva, so that starch in any form cannot be

the saliva, so that starch in any form cannot be digested, that the stomach is small and not muscular digested, that the stomach is small and not muscular its glands are only slightly active, and that the factivity of the liver and glands of the bowels is low. There is much to be said against the custom of having a went nurse so popular in France, but human milk may be simulated so exactly that a wet nurse is quite unnecessary. The usual substitute for human milk is cow's milk, which contains one-third less augar of milk. It is the expense and thrice as much present or cured. cow's milk, which contains one-third less sugar uf milk, a little less cream, and thrice as much casen or curd as human milk does. It therefore requires-considerable modification to make it suitable as a diet for human infants. The chief mistake in grung cows' milk to young infants is simply to dilute it with water, and sweeten it with cane sugar. This does not make a proper food, as although we decrease the quantity of easen by dulting it in the way we also still further. proper food, as although we decrease the quantity of casen by duluting it in this way, we also still further lessen the already deficient cream, the salts which are necessary to the growth of the bones, and the sugar of milk which is required as a heat former. Cane sugar, or, worse still, beet sigar, does not properly supply the place of sugar of milk, as in the stomach it causes an actic acid fermentation, which gives rise to fatulence, colic, and other digestive troubles. Sigar of milk is the natural sweetening great, extracted from the milk, and contains nutritious as well as heat-formthe milk, and contains nutritious as well as heat-form-ing elements, while it forms bactic acid similar to the material acids of the stomach. To make an recellent instation of human milk, take one quart of milk, allow it to stand, skun oif the cream,

and place in a separate jug. Then take half the milk, curdle it with 

For one week meal to be given every two hours, from a.m. to zz p.m., and once or twice during the night. The infant can take about twelve fluid ounces of food daily. From the second week to the sixth, give for

Milk z tablespoonful	
Cream 3 teaspoonfuls	
Milh areas I described	
Milk sugar teaspoonful	
Water z tablespoonfuls,	
seventeen ounces in the twenty-four hours. From	
sixth week, for the next fortnight, give	
Milk	
Cream z tablespoonful	
Milk sugar teaspoonful	
Water	
From the ninth week to the sixth month, give	
Milk 5 tablespoonfuls	
Cream r tablespoonful	
Milk sugar r teaspoonful	
Water 2 tablespoonfuls	
Durden the clush manch anadually incomes	4

junket and custard puddings.

who can digest them well.

The quantities of food taken at different ages are based on the actual measurements of the infant stomach and its digestive Quantities of Food. capacity. Thus, from the child should take from one and a half to two ounces every two and a half bours; from the sixth othe twelfth week, from three to four ounces every three twelfth week, from three to four ounces every three hours; and from that time about the same quantity up hours; and from that time about the same quantity up till about the sixth month, when from five to five and a half ounces should be given every three lours; at six months, six ounces, and gradually increasing up to ten months, when eight ounces should be given, the interval being still direct hours during the day, but perhaps only one or two meals being given during the perhaps only one or two meals being given during the night. Some foolish mothers feed an infant whenever it cries, and this is the way to ruin any signstifunction. Regularity in feeding must be maintained, but a child should not be waked to be fed if it is in good health. If very weak, so that it might die from exhaustion during sleep, it is necessary to wake it in order to feed it during the night. Infants' food should always be given at the temperature of the bigod, about interty-nine degrees Fahrenhelt. Catarrh of the stomach often arises from giving the bottle too hot or too cold. too cold.

The shape of the bottle is most important, as it should be such that it can be easily cleansed in every part. Those bottles in which part. Those bottles in which the teat fits directly on to the neck of the bottle are the best, and long tubes, owing to the difficulty of cleaning them, are a fruitful source of infantile disease. When not in use, the bottles should be kept in a basin of water containing borax.

The containing borns.

The seep sight temperature, but draughts or cold must be avoided. An infant, if healthy, will sleep a great part of its time, without any undue coaxing to that condition. On no account accustom the baby to being rocked to sleep. It is unnatural. The sleep that comes about in its proper course is calm and refreshing; the sleep induced by rocking is fitful and restless. And when the child is askeep do not trouble too much about protecting its head; let it have free breathing, and keep away from its face all clothing accessories that would be likely to touch its skin and irritate it. Also be careful to keep it from disturbing noises; a child awakened by a sudden shock is often seriously affected for a long time.

skin and irritate it. Also be careful to keep it from disturbing noises; a child awakened by a sudden shock is often seriously affected for a long time. Next to feeding, he most important matter is certainly the clothing of an infant. Until recent years the clothing was most irrational and Clothing. Insanitary, long binders tightly wound round the body, hindering the growth and development of the internal organs, stiff starched cotton garments chafing the delicate skin, and the way in which the clothes were cut, so as to expose the neck and arms, causing all kinds of diseaves of the respiratory organs. The chief points to be insisted upon are that clothes ought to be made (1) to cover every part of the body alike, (2) to rest upon the collar bones, 4-o that the arms shall be quite free, (3) to be short and light, so that the child can move its legs quite freely, (4) every garment should be made of wool, which gives the maximum of warmth with the minimum of weight, allows the skin the perspire, and is absorbent of perspiration, (5) that the garments should be as few in number and as simple in construction as possible, (6) that none of the clothes garments should be as few in number and as simple in construction as possible, (6) that none of the clothes should be unug from the shoulders. By this system, which has now been largely adopted, the child should have next its body a little knitted woollen vest with long sleeves, made to open and fold over the back; a binder, which can be made by splitting a yard of fiannel in three. The binder should not be hemmed or embroidered in any ways as the west where of the binder, which can be made by splitting a yard of fannel in three. The binder should not be hemmed or embroidered in any way, as the raw edge of the fannel will not chafe in the way that stitches would do. It should also wear a blanket or barrowcost, made to reach to the throat, and gored in such a way as to give sufficient width round the bottom and allow freedom to the limbs. This should fold over at the back and tie, and the bottom should be printed up with safety pins so as to keep the legs and feet warn. The robe should have long sleeves, should be made into a little yoke so as to fasten neatly round the neck, and should be about twenty-eight inches long, and twenty three inches wide at the bottom so long, and twenty three inches wide at the bottom so as to give a circumference of forty-six inches, and allow freedom for kicking. With this system of clothing, the pernloss time of short-coating is avoided, and no change should be made in the dress until the infant begins to attempt to stand. Then by putting tucks in the robe and blanket a short dress may be made. As soon as it is not necessary to pin the blanket over at the bottom, little woollen bootees should be worn, but these should be knitted or crocheted long enough to protect the legs entirely, and with square toes. The night gown is made similarly to the robe, and buttoned over at the bottom like a pillow case to avoid the infant exposing its limbs like a pillow case to avoid the infant exposing its limbs by kicking the bed-clothing off. The complete layette consists of three binders made as above described, consists of three binders made as above described, six vests, four lights, four night or monthly gowns, two day gowns, which may be embroidered and made rery retty by the addition of lace, four pilches, and two hoad fiannels. As soon as baby is put into shoes, which is generally not necessary before the age of ten months, great care should be taken that they give plenty of room for the little growing feet, are extremely wide, and that a size larger is got as soon as they appear to be tight for the baby's foot. For outdoor garments at first a large white shawl is the best. Long and heavy

cloaks are injurious, but when the baby begins to move its arms about, a jacket with a small cape, cut as long as the robe, but large enough to allow for growth in the body, ahould be substituted. The narrow cape may be edged with lace if required for ornament? Baby boys as well as baby girls ought to wear hoods out of doors, as it is a notable fact that baby boys suffer much more from earache and catarrhal diseases of the ear than little girls, simply because the girls wear hoods while the boys wear hats which expose the ears, as the ear-pieces put on the hoods generally slip out of place and are useless. The wearing of hats during the earity years of life also causes the ears of boys to be disfigured throughout life much more frequently than the ears of girls are, as the hood kegps the ear flat against the head in its proper positior. If carelessly put on, of course, the ears may easily be doubled forward by hat or hood, and so be permanently disfigured. All clothing for young children should preferably be white and be changed frequently, as it becomes saturated with the emanations from the skin as well as solled with external dirt.

The skin is always giving off waste and poisonous matters from the blood, and it is for this reason that frequent ablution is necessary. Some babies, however, suffer from too frequent washing, and the custom of giving two baths daily is responsible for many cases of external that child should be washed all over once daily with water blood-warm, t.e., about 96 Fahrenhett, and tested with a thermometer, and the soap should be very carefully chosen. That recommended by Sir Erasmus Wilson, president of the Hoyal College of Surgeons, and by Mr. Startin, senor surgeon to the Hospital for Diseases of the Skin, is Pears' Transparent Soap, which, good as it is, is also very economical considering the quality and the length of time that a tablet lasts. It is specially adapted for nursery use and the most delicate skins. Ordinary violet powders are sometimes dangers, and have been found to contain arsenic, but Messrs. Tears' make a special violet powder from the purest ingredients which bears the guarantee of their well-known name, so in purchasing it is best always to ask for Pears' Violet Powder. It is put up in a neat tin with perforated lid, most convenient for dusting over the skin. Pears' Precipitated Fuller's Earth should find a place in every baby's basket, as it is healing to the akin and most useful to prevent chaffings and

exconiations.

A word must be said in protest against the custom of using go-carts for young infants. All kinds of deformities and Parambulators w. Go-carts. disease may arise

wing to the baby muscles not being sufficiently strong to support the body in an upright position. Also, by coming too near the ground the child breathest in all kinds of impurities from the dust. The infant should be down in a comfortable perantulator, or a mail cart in which it can be covered in away from all draughts, until it struggles up into a sitting position on its own account. Nature indicates when a child is atrong enough to at up and when it is strong enough to walk, and to teach it to do those things prematurely is extently harmful. All lends "but you walkers," A child will drag itself up by some article of formittee, and stand, as soon as it is strong enough to do so. Many of the deformities when he article of formities, and stand, as soon as it is strong enough to do so. Many of the deformities when he sees among the poor are due to mothers vicing with each other as to how young they can make their islants walk. It is eighteen months, than walk at ten months and be bandy for the rest of its life.

Storms of discussion have raged round this subject, and many people refuse to regard vaccination as a fording complete innunity from small Yacoination, pox, and look upon vaccination itself as a serious danger to a child's health. So widely has this view spread that since the passing of the Act permitting exemption in cases of convicientious objection thus privilege has been largely taken advantage of, the exemptions having risen from 53,683 in 1906, being five per cent. of the children born, to

37 per cent. in 1914. The adherents of compulsory vaccination maintain, however, that this relaxation has led to an increase of small-pox cases in recent years, and the subject is the cause of much controversy at the present time. Where exemption is claimed it is necessary for the parent or person having custody of the child to make a satutory declaration before a commissioner for oaths or one justice of the peace, statung that a conscientious objection exist, or that the child is in ill health, and within seven days thereafter the statutory declaration (which requires no stamp) must be delivered to the Vaccination officer for the district. But in the ordinary course a child should be vaccinated before the age of aix snonths. For the sake of the child, however, it is desirable to have it done at three months, so that a perfect recovery may be made before the beginning of toething; but if the inlant is suffering in any way from ill-health, especially from skin trouble or eruption, the vaccination should be postponed, which may be done by obtaining a doctor's certificate or a form supplied by the medical officer of health for the district, and returned to him. Emulsified call lymph is the best form to use, and the easiest method of vaccination is to cleanes the portion of the limb, put a little vaccine on the skin, and scratch the surface with a lancet or darning needle, previously rendered aspectic by passing it through the flame of a spirit lamp. No blood should be drawn, and four scratches should be made. In the case of hittle girls the vaccination should be made in the case of the call of the left leg, where the resulting marks will not disfigure, and it is better to do so even in the case of boys, for when the long-sleeved clothing is adopted as adviced here, it is much easier to vaccinate on the leg. A vaccination pad should be tred round the leg as soon as matter beguns to form in the little swelling. These swellings should not be punctured, but should be allowed to dry up, and while the child is feverish

Teething is a natural process to which young and inexperienced mothers look forward almost with dread simply because every trouble of liness.

Teething, incliental to this period of infantile life, incliental to this period of infantile life, troubles generally caused by improper feeding and ignorance—are set down to teething. Children who are nursed by their mothers, or brought up on the artificial plan here indicated, generally cut their teeth so easily that the mother hardly knows when the process takes place, but those who are brought up in a haphazard manner, especially those to whom thereir foods are given, suffer very much, and very offen tide of convulsions, which are really not due to the teething but to improper feeding. The rudimentary teeth exist at birth in a soft pubpy form, and while they are lardening, the embryo teeth are pushed forward, eger a slight pressure on the soft parts above, which really elisolve away as the teeth advance, and leave very little so-called "cutting" to be done. For the satisfactory process of teething the three essentials are: (1) a sufficient quantity of lime; (a) a system gapable of assimilating this and using it where it is needed; and (3) that the guns shall not offer undue resistance to the teeth. When all these things are satisfactory, no other evidence of teething is generally given than an increased flow of saliva the earlier to have the guns rubbed, or to but on a hard substance, and the appearance of the little sharp white points.

points.
There is great variation in the time for cutting the first teeth. In some cases they appear as early as four Time of Cutting Teeth. in others their advent is delayed until about the end of the first year, but as a rule the process begins at about the sixth month of life. Delay in teething is not always a sign of ill-health, as in some

begins at about the sixth month of life. Delay in teething is not always a sign of ill-health, as in some very strong children the muscular development of the gums is so great that it somewhat impedes the teething, as, for example, in one case a child will run about before he has cur a tooth, or in another case although at ten months no teeth had appeared, in the next month six were cut without any trouble. Mothers generally think that there is a fixed order for the appearance of the teeth, but there is no absolute rule, and it is not of the least consequence which teeth are cut first. Generally, the two lower front teeth are the first to appear, followed by the upper ones which correspond.

to appear, followed by the upper ones which correspond.

If the bones seem well formed, the gums are hot and
swollen and tender to the touch, with a gristly,
whitish-looking line along the centre part of the toy,
there is probably too much muscular resistance to the
appearance of the teeth, and if the points can be felt
quite near the top, the gums should certainly be
lanced. When the mouth is feverish and painful, a corner of handkerchief dipped in cold water may be corner of nanokertner dipped in cold water may be given to the baby to suck, or a piece of ice wrapped in nne muslin will give great rehef. Plenty of harley water should be given to drink and the mouth must be kept scrupulously clean with water in which borax is dissolved. The bowels should be regulated. If there dissolved. In the conditions, and the motions do not exceed four during the twenty-four motions do not exceed four during the twenty-four hours, nothing should be done to stop it; but if the child is constipated an aperient of fluid magnesia is best, and two motions should be ensured during the twenty-four hours. If, on the other hand, diarrhicas is excessive, the milk may be mixed with arrowroot water or rice water to which a few drops of brandy may be stopped entirely, and the infant should be fed on equal parts of white of egg and tepid water alternately with beef essence, and have nce water or arrowroot water to druk. These may be made by sonking two water to drink. These may be made by soaking two teaspountils of either Patna rice or arrowroot in enough cold water to cover it for half an hour, your off any water then remaining, and add a pint of cold water. Boil this down to rather more than half the quantity.

The habit of "rubbing through" the The habit of "rubbing through" the
teeth with a wedding ring or thimble
increases the pam, and is apt to cause
inflammation by the article in question
not being properly aseptic. Lancing is free from this
danger and really much less painful.
If a child seems fat and fishby, and the division
between the bones of the head (which should be nearly
closed at one year) remains unBoft Head Bones. duly open, while the head persures at night, lime salts are

Boft Head Bones, duly open, while the head per-spires at night, lime salts are not being properly assimilated, and sometimes they are not supplied in sufficient quantity. A tablespoonful of lime water in such cases may be added to the bottle three times a day, or if the child is being brought up on the breast, three grains of phosphate of lime may be given twice a day in a little water, and cod giver oil may be added to the dietary. Where a proper amount of cream is given, as indicated above, however, such cases are practically unknown. cases are practically unknown.

cases are practically unknown.

Exercise is necessary for a child's health, and must be provided for, according to weather and other conditions, almost from the first. When a Exercise.

Fornight old it should begin to be taken out into the open air, if the weather be warm, for half an hour twice a day, and in cold weather in the death of the condition of the cold weather be warm, for half an hour twice a day, and in cold weather be a condition of the cold weather than the cold with the cold with the cold weather than the cold with the cold with the cold weather than the cold with the cold weather than the cold with the cold weather than the cold with the cold weather than the cold with the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold weather than the cold warm, for half an hour twice a day, and in coid weatner should be walked about with in arms in a room. The outside temperature should be 60° Falir. or higher to permit of a verg-young baby being taken out; but if the weather be against outdoor airing for it, it must still be allowed its regular quantum of exer-cise; that is, it should be wrapped in a light, warm

shawl, taken into a room of slightly lower temperature than the one it is nursed in, and carried about. Children of ten months or so may be allowed to kick or fling and creep about the floor amongst a few toys for a while every flay, but care should be taken to guard tikkm against draughts from beneath the door or from windows. If a child's legs show signs of weakness it should not be encouraged to try to walk until well over a year old.

Don't expect too much of the baby in the way of taking notice." Ordinarily, a baby begins to notice objects when from six weeks "Taking Notice." to two months old, but the mother and the other children.

if there are any, are impatient to attract the new-comer's attention, and often tease its eyesight for a little indication of recognition before nature has quite prepared it for the test. The best way is to wait until the baby begins to take notice of its own accord. Then day by day it will grow more observant, and presently begin to recognise its mother and the people about it. Considering that the brain of a newly-born about 1. Considering that the frain of a flewy-born baby is about 14 per cent. of the weight of its entire frame, while the brain of a grown person is but #37 per cent, of the weight of the body, some idea may be formed of the dauger of putting too great a strain upon, "he mental power which even "eye-notice" entails on a very young child. Excitement and shock should be carefully avoided.

The development of an infant's senses is naturally

slow. Its hearing is the sense that is quickly developed, the banging of a door, Sense Development. Or the shouting of other children, often causing

children, often causing quite a shock to the nerves of the child. It is not for some few months, however, that the baby is able to tell from which direction a cound proceeds or to differentiate between one sound and another. The sense of entiate between one sound and another. The sense of taste comes early, the distinction between what is sweet and what is not being present almost from the first, but the opportunity of exercising this sense is naturally limited until the teeth arrive, and with them a larger experience of food varieties. The senses of smell and touch are also late in development from smillar causes. But sense development is so much a matter of brain power and of physical health that no hard and fast statements are possible in regard to the different stages of progression. Speech manifests itself but little, even with the most forward children. before they are a vera old. Any Speech manifests itself but little, even with the most forward children, hefore they are a year old. Any sounds they utter previous to that age are little more than parrot cnes, though not without meaning to those who know how to interpret baby-language. Some children develop their senses very guickly, others very slowly, and it is not always to those of precocious development that the full mental expansion which should come with later years is assured.

If the mother watches the various symptoms of her child's life studies the excellent literature on the

child's life, studies the excellent literature on the child's life, studies the excellent literature on the subject which is now freely published, and does not hesitate to call in a doctor when the child's temperature reaches over ror degrees as tested by a clinical thermometer (the use of which every mother should understand), the dangers of the first year of life will be reduced to an absolute minunum and the baby he started on its career with a sound constitution, which he shapes regards can be to be a best capital his preparet can be to be the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c which is the best capital his parents can bestow upon it.



## Pears? Dictionary of Business

Being a Dictionary of Subjects, Words, and Phrases, relating to Trade, Commerce, Shipping, Finance, and Law.

Abandonment, a marine insurance term indicating that a shpowner abandons his rights in a ship that has been so damaged as not to be worth his recovering or re-instating, and applies to cargo as well as vessel. In these circumstances, the owner assigns his interest to the underwiters, who realise what they can and pay the owner the full amount for which he was insured.

Above Far, a price above nominal value.

Acceptance when being presented to the person upon whom it is drawn he accepts the responsibility of discharging it by writing across the face of it the word "accepted," with the addition of words indicating at what bank the bill is payable, and appending the signature of himself, his firm, or his company.

Acceptance for Honour, is when a bill of exchange is taken up by some person other than the drawee for the protection of the honour of the nominal acceptor.

Acceptance General is the term applied to bills Acceptance General is the term applied to bills of exchange that are accepted without any variation from the conditions on which they have been drawn.

Acceptance, Qualified or Special, is when the drawee or payer of a bill of exchange accepts, responsibility for part only of the sum mentioned in the bill, or varies it in some other particular.

Accommodation Bill is a bill of exchange accepted by one person or firm for the accommodation of another parson or firm as a metter of convenience.

of another person or firm, as a matter of convenience or friendship, without the acceptor having re cived any consideration, an act which practically amounts

Accountable Receipt is a receipt for money or goods in respect of which the giver of the receipt is subsequently accountable; for example, a pawn ticket.

Accountants are men whose special business it is to brepare, investigate, and audit accounts, and the leading members of the profession are either members of the Institute of Chartered Accountants or the Incorporated Society of Accountants and Auditors, admission to which is obtainable only on passing an examination. There is nothing to prevent anyone setting up as an accountant, however, though the bulk

setting up as an accountant, however, though the bulk of the accountancy business of the country is in the hands of certificated men, who frequently fill official positions as trustees, receivers, etc.

**Active Bonds** are bonds bearing a fixed rate of interest payable in full from the date of itsue, and include most bonds negotable on the Stock Exchange.

**Act of Bankruptcy.** Among the hings that constitute acts of bankruptcy on the part of a debtor may be mentioned the following:— Leaving the country, or remaining out of it, or keeping out of the way of creditors for the purpose of delaying or defeating them; assigning property for the benefit of creditors; making fraudulent gift or transfer; frauduently preferring one creditor to another; filling a creditors; making transment gut or transmer; madu-lently preferring one creditor to another; filing a declaration of inability to meet obligations; giving creditors notice of intention to suspend; having goods seized by the sheriff; or failing to satisfy a judgment

before the expiration of a bankruptcy notice served upon him.

Act of God, any event beyond human prevention or forestellar, such as shipwreck, earthquake, lightning, dc., lost in respect of which cannot be enforced unless expressly provided for.

Acc., los! in respect of which cannot be enforced unless expressly provided for.

Actuary, an expert statistician whose duties are chiefly concerned with matters of insurance, banking.

Actuary, an expert statistician whose duties are chiefly concerned with matters of insurance, banking.

Actualization Order. The order of Court declaring the bankruptcy of an insolvent debtor and investing his property in a trustee.

Actuation of the process of average, a work that is usually done by professional "average adjusters."

Advance Freight. An advance payment for freight of see-carried goods, payable on shipment, and not recoverable in case of loss of goods in transit.

Advance Freight. An advance payment of the good of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the

party.

After Sight. A phrase indicating that the period for which a bill is drawn does not begin to run until presented for acceptance by the drawe.

Agenda. A list of matters to be transacted or

Agends. A list of matters to be transacted or discussed at a meeting.

Allen. Any foreign subject who resides in this country and has not been nationalised. He is prohibited from owning or having shares in any British ship and from holding any parliamentary, nuncicpal, or other public office. After a five years' residence an allen can take out letters of nationalisation through the Home Office, the fees in connection with the matter amounting to about £6.

Allocatur, a taxing-master's certificate of allowance of costs in a solicitor's bill that has been before him for taxing in the solicitor's bill that has been before

him for taxation.

him for taxation.

Allonge, a slip of paper attached to a Bill of Exchange to provide space for additional endorsements when the back of the bill has already been filled up.

Allotment, the allotting of shares, stock, or bonds in a company. Since 2901, no allotment of shares can be made unless the minimum subscription mentioned

in the memorandum or articles of association and in the prospectus, as that upon which the directors would proceed to allotment, has been subscribed, and the sum payable on application has been received by the company, or the entire share capital har been sub-scribed and paid for, conditions which must be carried out within forty days of the first issue of the prospectus, otherwise all moneys received on share account must be returned.

Allotrnent Note is a document signed by a seaman, authorising payment by his employers of a portion of his wages (not exceeding one half) for a certain voyage, to a relative or bank specified.

All Rights Reserved, a printed intimation in any book or literary work, notifying that the owner of the copyright has legally protected his rights against infringement.

the copyright has legally protected his rights against infringement.

All-Round Price, a price that covers all charges usually treated as trade extras. (Saunes Overhead Price).

Ancient Lights are rights of outlook, light and air, enjoyed by a proporty owner over adjoining land. Such a right is obtained either by uninterrupted enjoyment for twenty years, or by written authority, and once legally established cannot be upset, no building being permussible that would seriously interfere with the privilege.

Annulty is a payment of an annual sum to an annultant for a term of years or for life, or to a succession of annuitants in perpetuity. Annulties are of many kinds, and granted under varying conditions. An annulty may be segured by the payment to an assurance company of certain premums. Terminable annulties, that is, such as cease after the lapse of a specified period, yield a larger sun per annum than life or perpetual annulties, as they deal with a fixed principal sum returnable with interest within the specified term. Deferred annulties do not come into force until a certain time has elapsed or certain conspecified term. Deferred annuties do not come into force until a certain time has elapsed or certain contungencies have arisen. Annuties for life are based upon the same principle as that which governs the granting of an ordinary insurance policy—the expectation of life—and are regulated by tables based on general mortality averages.

Anta-date, to give a date prior to that on which it is written, to any cheque, bill, or other document.

Appraiser, a valuer of property, who pays £2 2, year for his hoense, and is liable to a penalty of £50 for acting without one. No examination is necessary

year for his because, and is liable to a neurality of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control whether a premium be paid or not,

Arbitrade, a term used in exchange operations and applied to the calculation of simultaneous values in respect of the stocks of different markets and the equalising of prices by compensating deals, setting out the cheapness of one market with the documents of the cheapness of the market with the documents of the cheapness of the market with the documents of the cheapness of the market with the documents of the cheapness of the market with the documents of the cheapness of the market with the documents of the cheapness of the market with the documents of the cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap cheap

Arbitration, a method of settling a dispute by a a reference to disinterested parties, frequently resorted to in order to avoid law suits, and somethies, where technical or other special difficulties present them-selves, recommended by a court of l.w. Disputes between employers and employed are often settled by

Arbitration of Exchange is the calculation Arbitration of Exchange is the calculation entailed when a merchant having money to remit to one country finds it a saving to remit through another country because of the rate of exchange being more favourable in the latter. It is calle i simple arbitration when only one intermediate place is dealt with, and compound arbitration if more than one be concerned Articles of Association are the rules and regulations detailing the scope and method of conducting the business of a limited company. They must be printed in consecutively numbered paragraphs, and are supplementary to the Memorandum of Association, the terms of which they must not exceed.

Assacts are property of any kind available towards the discharge of a testator's, intestate's, or destor's liabilities.

liabilities

Assign, a legal and trade term applied to the making over of goods, money, or property of any kind to another.

Assignee, the person to whom anything is

assignment, a document of transfer of land, personal property, or rights. Choses in action, such as debts, can be assigned and sued for by the assignment on the following conditions: (i) that the assignment absolute and not simply by way of charge, (s) that the deed is in writing and signed by the assignment. (3) that the debtor receives notice of the assignment.

(a) that the debtor receives notice of the assignment.

"A." Book, railway or other company's deferred
stock bearing this designation.

As Bighs, a form of notification written on bills or
notes denoting that they are payable on demand,
without allowance of days of grace.

Attachment, a legal term applying to the science
of a person's goods or personal effects under process of
law, and has special reference to the writ of attachment
authorising such sezure.

Attentation is the formal witnessing of the signing
of any deed or document and the subscribing of the
witness's name in proof thereof. Two witnesses, who
are not interested, are required to a will, and they
must append their signatures at the request and in
the presence of the testator and in the presence of
each other. each other.

each other.

Attorney, Power of, a document authorising the person to whom it is given to act in all respects as the grantor of the power, in relation to matters specified in the document. When the power is general it applies to everything in which the grantor is interested, when special it applies to specific marters, such as the power to sign cheques, bills, transfers, deeds, to receive moneys, to effect sales, etc.

Auction is a public sale at which goods or properties are offered for sale by an auctioneer, and sold to the highest bidders when the sale is without

reserve

Auctioneer, a person licensed to sell goods or property by public auction. He is usually paid by commission, and his license costs him £10 a year. In respect of goods seized under distraint, or for sales under the Small Debts Acts, the person selling need not be a qualified auctioneer.

Auditor, the person who carries out an audit of accounts. He is liable to be proceeded against for damages if by his omissions or neglect any loss arises. damages if by his omissions or neglect any loss arses.*
It is no part of ins duty, however, to criticise the actions of principals, or to concern himself with the prudence or imprudence of transactions disclosed by the books. His chief duty is to accertain the true financial position of the business and get out a balance sheet in which this is accediately set forth. The employment of auditors is compulsory in regard to the accounts of most public bodies and companies, but no director or officer of a company may hold the position of auditor. of auditor.

of auditor.

Average, a marine insurance term applying to loss or damage at sea. It may refer to perticular everage, a contribution by underwriters for part loss or damage; or general everage, a combined contribution on shup freight, and cargo for damage and expenses incurred for the common good. Average in the ordinary commercial sense undicates "a mean proportional between two or more figures."

Average Bond, a bond given by the consignees of cargo to the owner or captain of a ship which has sustained a general average loss, agreeing to pay the consignees' proportion of average when ascertained.

Average Clause, the clause in a marine insurance policy excluding certain articles from average if under a specified percentage.

Average Stater or Adjuster, one who possesses expert knowledge in matters of marine in-surance, whose business it is to make out statements of averages for the underwriters in regard to claims for loss.

Award, the decision of an arbitrator or arbitrators. or their unpure, on matters in dispute that may have been referred to them. Unless otherwise stated, or by consent for extension of time, an award must be delivered within three months of the arbitration. An

genvered within three months of the arbitration. An award requires a ros. stainp. Prior to 1996 ad valorem duties were charged, ranging from 3d, to 35s. **Back Bond**, a bond whereby a property owner converts a possession into a trusteeship, in consideration of a loan, his original position being restored on renavment.

Racked Note, a receiving note, endorsed by a shipbroker, authorising goods to be transferred from barges to shipboard.

Back Freight occurs when from causes beyond Back Freight occurs when from causes beyond a captan's control goods cannot be landed at the port of destination, and have to be conveyed back to the place of shipment, freightaire thus becoming chargeable against the owner for the return voyage.

Backing a Bill, the act of accepting a lini of exchange by writing across its face the issual form of acceptance and signing it, a term usually applied to the accepting of accommodation bills.

to the accepting of accommodation bills. **Backwardation** is the condution existing when stock can be bought cheaper as a matter of account than for cash. The term is likewise used in respect of the rate of interest paid tor "carrying over" a bargain from one fortinglity account to the next instead of closing the transaction.

mstead of closing the transaction.

Ball is the security given for the release, pending formal trial, of a person charged with some offence.

Ballment is the delivery of goods by one person to another for a specific use or purpose, a condition which arises when goods are lent, or pawned, let on hire, entrusted for conveyance, or in temporary custody for repair or alteration. The owner is called the ballor, and the person to whom the goods are delivered is the ballee, who is responsible for their affety and their re-delivery on the conditions on which the goods were deposited being fulfilled.

Balance of Trade, a form of expression in general use to denote the difference between the aggregate value of the imports and of the exports of a country.

Balance Sheet, a summary of the accounts of a business, setting forth in grouped totals on the debit side the amount of capital employed, and the debits and liabilities, and on the credit side the entire assets, including cash, stock-in-trade, property, plant, buildings, and debits gwing.

Bank Holidays are otherwise working days on which hanks are closed in sultium to Coast Factor on which hanks are closed in sultium to Coast Factor on

Bank Holidays are otherwise working days on which banks are closed in addition to Good Friday and Christmas Day, and are now largely observed as general helidays. They are in England and Ireland) Leaster Monday, Whit Monday, the first Monday in August, and the day after Christmas Lay, or, if the day after Christmas should be a Sunday, the following day. In Scotland the Bank Holidays are New Year's Day, the first Monday in May and August, and Christmas. Day and the next day. Bank Holidays were the result of an Act introduced by Sir John Luibbock (Lord Avebury). Banking, as we understand the term to-day did not exist in England before the time of Charles I., and was adopted first as a protective measure agamst the

not exist in England netore the time of Charles I., and was adopted first as a protective measure against the risks of royal confiscation, and next for purposes commercial exchange. In Venue, Barcelona, and Amsterdam, banking systems of a crude kind had been in operation long before this, and London goldsmitts and merchants like Gresham had performe. Pectrain banking functions, but it was not until 1694, when the banking functions, but it was not until 1694, when the Bank of England was established, for the better handling of the National Debt, that banking in its modern significance was established. Other banks were soon afterwards formed, but were prohibited in 1697; gradually, however, the prohibition was evaded, and in the course of the 18th century many private banks were started in London and the chef provincel centres. This progress notwithstanding, it was not until the London and Westminster Bank began operations in 1833 that any institution existed as a bank of deposit only. The Bank Charters Act of 1844, which introduced a limiting of note issues and other salutary regulations, did much to improve and other shill arry regulations, did much to improve the general banking conditions. Occasionally, in times of commercial panic, many banks failed, and as under the old joint-stock companies' law each shareholder was liable for all indebtedness, at these periods many was labe for an inderinces, at these periods many people were rulned. The passing of the Limited Lability Companies Act in 1802, however, enabled banking as well as other companies to restrict the habilities of their shareholders to the amount of their naminates of their sparenomers to the amount of their nominal holdings. Banking is now of enormous range. In addition to the ordinary banks, there are savings banks all over the country, and the Post Office Savings Bank, established in 1861, has deposited with it between one and two hundred millions sterling.

Bank Bill, a bill of exchange drawn by one bank upon another

Bank of Deposit, a bank receiving money at a specified rate of interest, deposits being only with-drawable after a prescribed previous notice has been given. The bank, being thus guarded against emerging

given. The bank, being thus guarded against emergency calls, is able to mivest its innoursy innor favourably than ordinary banks, and to pay higher interest.

Bank of Isaue, a bank authorised to issue its own notes payable to bearer on demand. In London and within a radius of sixty-five miles, the Bank of England is the only bank of Issue, except certain banks established prior to May, 1844, which share the sixty-five miles innoupoly. Shareholders are lable for the amount of notes outstanding in case of a bank's failure, even though the bank has been registered under the limited habiity acts. No new bank of issue can now be formed. issue can now be formed

Banks, Joint Stock, banks whose capital is subscribed by shareholders, and now, with very few exceptions, limited liability companies, the liability,

exceptions, limited liability companies, the liability, however, not extending to note issue.

Bank Notes are promisory notes of a bank, payable to bearer on demand. In England the minimum sum for which a note may be usued is £5; in Scotland and Ireland £1. Only Bank of England notes are legal tender. Country bankinotes can be resissued after payment, but Bank of England notes are never re-issued

Bank Post Bills came into use in 1738 as a pro BARK FOSE BILLS came into use in 1738 34, a pro-tection against mail robberies. The Bank of Lugland issues them for sums of not less than £100 or more than £1,000 payable seven days after sight, on the amount being deposited, and without charge, the seven days' interest being the bank's remuneration. These bills are not subject to days of grace Bank, Privata, a bank carried on by one or

more persons, not exceeding ten, in partnership. These banks, however, are now few, none having been established in recent years, and such as were private are for the most part amalgamented with banks of Limited hability.

Bank Rate, the rate at which the Pank of England grants loans or discounts bills, and declared at each weekly meeting of the directors, mainly in

fluenced by the gold supply and demand.

Bank Return, the weekly report of the financial condition of the Bank of England, issued every Thursday.

Bank Stock, strictly the Bank of England's banking capital, the rate of interest bring regulated according to the Bank's profits. The capital or other banks is also called blink stock.

Bankerz' Cheques, a cheque drawn by one bank

Bankers' Clearing House was established to enable bankers to realise the value of the cheques and bills in their hands for collection from other bankers without he trouble of separate presentation at different banks. The Clearing Home is managed by a Committee, and although dating back to 1775, it sonly since 1888 that the present convenient system of clearing has been in operation. Well over twelve thousand millions' worth a year is now cleared.

Bankrupt, one who is insolvent and unable to pay

his debts, but only of legal application when a pers has been declared bankrupt by a court of law,

Bargain and Sale, a legal term usually referring to a contract for the sale of real property, but also applicable to contracts for the transfer of personal property, although for the latter the word in general

appricable to Contacts for the future of personal property, although for the latter the word an general use is assignment.

Barratry is an offence committed by mariners, and may consist of either deserting or sinking a slip, embezzling cargo, or doing any other act whereby the shipowner is it jured.

"Bear," a Stock Exchange operator interested in bringing down the price of certain stock and operating with that object. It applies more particularly to one who has sold stock which he does not possess and desires to induce a tall in price prior to the next settling day, so that he may make a profit by buying at a lower price than the one he agreed to sell at.

Bear Account, an account of "bearing" transactions, the selling entries representing a greator amount of stock than the "bear" can deliver and often entailing "backwardation" payments to effect a "carrying over" to the next account.

Bearer. The term "or bearer," or "to bearer," on billis or cheques, denotes that the person holding the

Bearer. The term "or bearer," or "to bearer," on bills or cheques, denotes that the person holding the same has the same right in respect of it as the person specifically mentioned.

Bearer Bond, a bond for money loane and payable to the bearer or holder of it.

Below Par. When prices are under nominal value they are quoted as so much "below par."

they are quoted as so much "below par."

Beneficial Interest, a right to enjoy or derive profit from property which may be legally vested in another. For example, a mortgagere has legal though not actual possession, the mortgager, who retains practical ownership so long as he carries out the conditions of the mortgage, enjoying the beneficial interest.

Bequest, a gift of personal property left by will. Bid, a price offered at an auton or other sale, withdrawable at any time before it has been acknowledged by the auctioner or seller.

ledged by the auctioneer or seller.

Bill Broker, one who buys and sells bills of exchange or promissory notes, selling bills drawn on foreign countries, and buying bills for remitters to those countries. A close knowledge of matters influencing rates of exchange is necessary to the carrying on of this class of business, which is distinct from that of billdiscounting,

Bill for Acceptance, a bill of exchange forwarded by a trader for acceptance by the person on whom it is drawn.

whom at Strawin, a letter authorising the advance of money to a specified person, and undertaking or implying the obligation, on the part of the writer, to reimburse the person active on the letter.

Bill of Entry, a written description of goods entered at the Custom House, either for intended

exportation or imported

Bill of Exchange, a written order by one person to another descring him to pay a person or firm named, or bearer, a certain sum at a certain time. An inland bill of exchange is drawn and payable in the United bit of exchinge is that all payable in the Onted Kingdom; a foreign bill of exchange is payable abroad. Before it is legally completed a bill of exchange must be signed both by the drawer and the acceptor—the

be signed both by the drawer and the acceptor—the latter being the person who accepts the liability of discharging the bill on the day it falls due.

Bill of Health, a certificate signed by a consul or other official delivered to masters of ships when they leave places, showing in the case of a clean bill of health) that, when the ship sailed, no infectious disorder was known to case at the port of suling. A suspected or touched bill implies that there were runiours

respected or touched bill implies that there were runiours of infection; and a foul bil, or the absence of a clean bill, indicates that the ship sailed from an infected place.

BILL of Lading, a receipt from a ship's captain to the shipper undertaking to deliver goods—on payment of freight—to some person whose name is expressed or evelorised thereon by the shipper.

Bill of Sale, a deed or decument designed to furnish evidence of the sale of personal property, as, for instance, goods or furniture, when the sale has not been followed by the immediate transference of such chattels to the custody of the purchaser A bill of sale must be registered within seven days of its execution.

Bill of Sight. In case of an importer not being

able to make out a complete bill of entry he is allowed to sign such a general description as will serve for the time, and on that, which is called a bill of sight, the goods are landed, though not allowed to be delivered before a proper bill of entry is presented.

Bill of Store. Goods of British origin which have been exported to a foreign country can be re-imported within five years without being liable to importation duties, and when that takes place the particular are entered in what is termed a bill of store.

Bill of Sufferance is an official permit to a ship to proceed from one British port to another, with dutable articles on beard, and trade, without paying Customs dues until landed or placed in a bonded warehouse.

Bills, Victualling, a licence to carry stores, for use on a voyage, free of duty.

Binetallism is an economic theory which seeks to establish that gold and silver should both be kept

at a fixed standard.

Blank Acceptance, a term used when the acceptor of a bil of exchange signs the acceptance without naming the amount for which it is drawn, in which it is open to the drawer to insert afterwards any amount up to the linut covered by the stamp.

Blank Bill or Note is one that is drawn without

giving the name of a payee,

Blank Credit, a term used to designate a class
of bills resembling accommodation bills, drawn for
temporary financial convenience, but not representing actual indebtedness

Blank Indorsement, an indersement of a bill of exchange or other document, from which the name of the person to whom it is given is omitted, and is

payable to bearer.

Blank Transfer, a transfer of stocks or shares, omitting the name of the transferee, often given to bankers as security for money lent on such stocks or

Board of Trade, a department of the British Board of Trade, a department of the Bruish Government, forum; a permiauent committee of the Privy Council, and presided over by a member of the Cabinet. Its constitution dates from 1986 but the business of the office is wholly controlled by the President. The six departments of the Board of Trade are: (1) Commercial, Labour, and Statistical, established in 382; (2) Railway, dating from 1843; (3) Marine, in operation since 1890; (4) Finance and General, since 1891; (5) Fisheries and Harhours, since 1866; and (7) Bankruptey, established in 1882.

Bond, a document under seal engaging to pay a sum of money or carry out some contract or obligation.

sum of money or earry out one contract or obligation. It is B the nature of a nortgage, and becomes void on its obligation being discharged, but although it is usual to meer in the bond, as penalty for non-full ment, double the sum actually secured, only the sum ment, double the sum actually secured, only the sum really own, with interest, costs, etc., is recoverable. The Statute of Lautations does not apply to a bond, being a document under seal, until the expiration of twenty years from the accruning of the right to sue Government, Municipal, Rulway, Comisany, and Corporation securities are usually in the form of bonds.

poration weathers are usually in the torn or bonds.

Bonded Piebt, the sum owing by a State or Corporation, for the repayment of which it has given bonded Bonded Goods are goods stored in a bonded warehouse, and not chargeable with dury until required for consumption. The owner is required to enter into abond to pay the duty on removal of the goods.

Bonded Yaults, the name given to the underground cellars used for storing wines and spirits under

the same conditions as already mentioned in respect of Bonded Goods.

Bonded Warehouse, a building set apart for the storage of dutiable goods, the duty on which is not payable until they are removed. The warehouse is in the entire charge of revenue officers.

Bond Note, a note authorising the removal of bonded goods for exportation or to another warehouse, and requiring the signature of a Custonis House official.

Bonus, an allowance beyond the ordinary dividend of a company, either in the form of extra money pay-ment or by way of allowance in reduction of premium

Book Credits are the credit entries in business

books by which adjustments of finance are enabled to be made with but little passing of cash or notes, on the same principle as banks balance their Clearing House

Book Debts, the debts recovered in a trader's books in the ordinary course of business. They are assignable, but the assignable, but the assignament must be in writing and suus; show adequate consideration. Each debtor must also have notice of the deed. In the absence of such notice, payment made to the original creditor is legal.

notice, payment made to the original creditor is legal.

Bottom, a marine term now applied to a ship generally, though originally only signifying the keel or hull.

Bottomry abond, a contract or mortgage by which a ship becomes a pledge for the repayment of money advanced to enable it to proceed to its destination, and only recoverable if the ship succeeds in terminating its prescribed voyage satisfactorily. In the case of more than one bottomry bond being given, the last has precedence of realisation, on the ground that the last money advanced secured the completion of the voyage. This kind of contract is not in muse in these days, when ordinary Marine Insurance of the voyage. This kind of contract is not in much use in these days, when ordinary Marine Insurance and the state of the contract of the contract of the contract Notes, are notes which traders exchange with the contract Notes, are notes which traders exchange with mechanical contract Notes, are notes which traders exchange with mechanical networks.

each other, giving particulars of sale and purchase transactions as entered into between them.

ransactions as entered into between them.

Bounties are premiums paid by a Government to persons engaged in producing or exporting certain goods to encourage industry or favour competition.

Brand, a distinguishing name, design, or trademark used for putting on goods, or on cases in which they are enclosed, to define ownership, class, or quality.

British ship, a vessel owned exclusively by British subjects, or by a corporation or company established in British dominions according to British cases of vessels of small tonnage.

Broker is an agent acting for others in buying or selling goods, and carrying out the arrangements between buyers and sellers without having the actual possession of the goods. He must not act in his own name.

Brokerage, the commission, percentage, or fees paid to the broker for his work in connection with any business carried through by him.

Brokers' Contract Notes are notes signed by brokers after effecting a sale or purchase of goods, and sent to those for whom they have been acting. The note to the seller is called the "sold note," that to the buyer the "bought note." They are identical as to particulars.

particulars.

Brokers' Returns, particulars sent to shipbrokers, setting forth all the items of the cargo of a ship.

"B" Stook, the title of certain preference, rallway, or other stock.

Bubbles, the name given to fanciful and sensational financial schemes without substantial foundation,

engineered for speculative purposes, and ending in disaster. The most notable example in this country disaster. The most notab was the South Sea Bubble.

was the South Sca Bubble.

Bucket Shops are the offices of outside brokers who are not members of the Stock Exchange, and are unable therselves to chrry out Stock Exchange transactions, but get members to act for them.

"Bull," one who buys, or contracts to buy, shares in the expectation of a rise in price, and a consequent realising of profit on them by settling day.

Bull Account refers to the account of a "bull" who, finding himself with more stock than he can settle for, pays what is called "contango" for the privilege of having the account "carried over " to the next settlement.

Burden, a ship's carrying capacity reckoned by

Buyers Over, a term indicating buyers are in

excess of sellers.

Buying In. If within ten days of a stipulated date a seller on the London Exchange falls to deliver securities bought the buyer may buy in against the seller, the latter becoming liable for all expenses incurred. The time allowed, however, varies at different exchanges.

Bye-Laws are special rules and regulations made by any company or corporation for the carrying on of its affairs, but they must neither contravene the powers conferred by Parliament nor the laws of the land. Call, an instalment due on shares not fully paid payable according to the terms of the prospectus or Articles of Association of the company. The term is also used in respect of the option of exercising a call to buy or sell specified securities during a certain period and at a certain price. at a certain price.

Called Bond, a bond concerning which a notice or "call" has been sent out that it will be redeemed on a date named.

Call Money, money lent to bill-brokers and repay-able on demand or "call." Call of More, or "option to double," is the privilege to double the amount of one's present buying at a future-named date on the same terms.

Cancelling is the act of rendering inoperative any bill, note, cheque, deed, or other document. This is

buil, note, eneque, deed, or other document. This is usually done by writing or stamping across the face of the document the word "cancelled," or by perforation or bliteration of the signatures.

Capital is either fixed or circulating. The former is money spent in land, houses, factories, workshops, machinery, or other things necessary for the carrying on of Business, and not of a nature to be sold or exchanged. Circulating capital is money provided for the purchase of raw material, the remuneration of on of Usiness, and not of a nature to be sold or exchanged. Circulating capital is money provided for the purchase of raw material, the remuneration of employees, and other working expenses in the ordinary course of business, and returns to the owner, along with a certain profit, as the products of the workmen are realised. Thus this capital is kept circulating, and, unless the whole of the profit made be taken out of the business, will be continually increasing. In a general way, the term capital signifies the money and money-value invested in a business undertaking. The actual capital of a limited liability company is the amount that its shareholders may have subscribed for the carrying on of the undertaking. The term, however, has a varied application. Thus the full sum named as capital in the Memorandum of Association is called the "nominal," "authorised," or "registered" capital, while the sum represented by the shares actually taken up is called the "subscribed capital," the portion remaining unpaid or uncalled up being styled "unpaid" or "uncalled" capital. The principal sum of n loan is also called "capital. The principal sum of n loan is also called "capital."

of n loan is also called "capital."

Capitalisation is the act of providing money to be used as capital in a commercial er other undertaking.

Carat, a term used in assessing the value of gold

Carat, a term used in assessing the value of gold and precious stones. In connection with gold, it represents the proportion of pure gold contained in any gold alloy, and for this purpose the metal is divided into as parts. Thus 24 carats indicates pure gold, and any lesser number of carats shows the proportion of gold contained in the alloy. As used by jewellers in weighing precious stones, a carat represents 3; Troy grains.

Carrier, any person or company engaging to convey goods for hire in the regular way of business. Thus railway companies are common carriers so far as concerns their carriage of goods, but the term does

Thus railway companies are common carriers so far as concerns their carriage of goods, but the term does not apply in respect of the carriage of passengers. So long as goods are in the custody of a carrier, he is responsible for their safety, being exempted, however, when damage results by the "act of Cod," from the act of the King's enemies, or from "inherent vice," that is, natural deterioration, bad packing, etc.

Carrying Ower, a term used to signify the postponement of the spitlement of an account over the roper settling day to the next, for which accommodation the speculator has to pay backwardation and the commondation of the spitlement of an account over the trapser. See Backwardation and Consango.)

Cart Note, the official note authorising the transfer of duitable goods from one bonded warehouse to another, or from import ship to bonded warehouse.

Case of Need, a conditional endorsement on a bill of exchange, naming an additional person, firm, or company, to the acceptor to apply to "in case of need" to take the bill up. The usual form is "In case

of need apply to Messrs. ——,"

Cash, generally speaking, consists of coin, notes, bills, or other documents, that can be immediately con-

verted into cash; but its strict legal significance does not extend beyond coin and Bank of England notes. Cash Bonus, a life insurance term, applied to a bonus paid in cash to the insurer, and not otherwise dealt with.

Casting Wots, the vote given by a chairman or president of a meeting when the votes of those present are equal. The vote may be his only vote, or, as is usually the case, it may be in addition to his vote as an ordinary member. It is a matter that is generally provided for in the Articles of Association of a company, and is not a right that exists at common law.

Caution Money is money deposited as security for the fulfillmant of a contract or shifterities.

for the fulfilment of a contract or obligation.

Certificate, an authorised or official document certifying title, right, or verification, respecting its subject-matter.

subject-matter.

Certificated Bankrupt, one who, having passed his examination in bankruptcy to the satisfaction of the court, is granted his certificate of discharge from his existing dobts.

Certification of Shares is when shares represented by one certificate are sold in batches, and the company takes the certificate, and certifies on the transfer that the shares therein enumerated are in their custody. If only a part of the holding be sold, a "Balance Certificate" is given to the owner for what remains unsold,

Certificate of Damage, a dock certificate testifying that certain goods on being landed from hipboard are in a damaged condition. Without this

hippoard are in a damaged condition. Without this the importer cannot recover compensation.

Certificate of Incorporation, a certificate issued by the Registrar of Joint Stock Companies, after the registration of a limited liability company.

Certificate of Origin, a document authoritatively indicating the place of origin of the goods, materials, or manufactures mentioned therein.

Certified Transfer, a transfer testifying that

the certificate of the shares mentioned therein has

the certificate of the shares mentioned therein has been lodged with the company, and necessary only when a portion of the shares has been sold.

Cesate Bonorum, a Stotch process of law, involving an assignment for the benefit of creditors, after which the debtor is free to resume trading; although after-acquired property becomes liable to seizure until the full extent of the claims against him is

satistice.

Cestul que Trust, one entitled in trust to the income and profits, which he is bound to apply according to the terms of the trust.

Chamber of Commerce, an association of merchants, nanufacturers, traders, and others, organised for promoting the interests of trade; and exercises the state of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce of the commerce ing a very beneficial influence in obtaining and spreading statistical information, aiding commercial

legislation, and otherwise.

Charter, a government or Crown grant of concessions, powers, or prilileges to individuals, companies, or institutions. Such an organisation does not come under the Companies Acts.

not come under the Companies Acts,
Charterer, one who charters the whole or part of
a ship under an agreement of charter-party,
Charter-Party, a hiring contract whereby the
owner of a ship grants to another person or persons
the right of using the whole or part of a ship for a
specified voyage or period for the carriage of goods.
Chattels consist of morable property such as
furniture and household goods generally, as distinct

from fixtures or land.

Cheque is an order on a bank*for the payment of a specified sum of money, on presentation, to the person named in the document, or to the bearer. It does not require endorsing when made out to bearer, but must be endorsed when payable to order. Each cheque be endorsed when payable to order. Each cheque requires a penny stamp in this country. A banker is liable for loss on a forged cheque unless he can prove carelessness on the part of the drawer. (See **Uneques Crossed.**) **Cheques Crossed.**A cheque is crossed for protection. The crossing is usually done by the drawer, who writes " & Co." between two partilet

transverse lines across the face of the cheque, after which the cheque can only be realised by being passed through a bank. The simple " & Co.' crossing is called "general"; when the name of a particular bank is added it is called "special." (See also Not

se added it is called "special. (See also save Regotiable.)

Chaque to Bearer, a cheque payable to the person holding it without requiring endorsement. The wording "or Bearer" after the name of the payee is sufficient, but if the cheque be crossed it must be paid

into a bank.

into a bank.

Cheque to Order is one having the words "or Order" printed or written upon its face, to follow the name of the person in whose favour it is drawn, who must endoise the cheque before payment can be obtained. If crossed it must be paid fitte a bank.

Chose in Action, a commercial-law term denoting a thing in respect of which one has a right of

denoting a thing in respect of which one has a right of action as distinct from a thing in actual possession. For example, mortgages, bonds, warrants, policies of insurance, and debts. Such rights are now assignable;

prior to 1873 they were not.

Chose in Possession, a thing in actual ownership,

Chose in Possession, a thing mactual ownership, such as goods and chattels.

Circular Notes, not less in amount than fro, are issued by banks to persons about to travel abroad, to obviate carrying large sums on the person. According to requirements, the ban't forwards what is called "a letter of indication" to correspondents at stated places at which the traveller will stop, directing the payment to him of any sum up to a specified limit. Each letter is algred both by the bank and the payee, to prevent personation or forgery.

Glearance may mean (1) a Custom House permit for a vessel to sail out of a port and signifying that all dues have been satisfied; or (2) the same privilege in regrand to goods, showing that all local obligations have been disrouted of

been disposed of,

Clearance Inwards refers to ships that have arrived in port and discharged their cargo.

Clearance Outwards refers to vessels ready for

leaving port.

Clearing a Bill, providing cash to satisfy a bill of

Clearing Bank is a bank affiliated with the London Bankers' Clearing House.

Clearing House, Bankers', the house through which bankers pass the bills and cheques they hold on the banker has a unitual arrangement, which enables other banks by a mutual arrangement, which enables daily settlements to be made on the balance of total other banks by a minutal arrangement, which elankes daily settlements to be made on the balance of total sums, thus obviating delays, and greatly facilitating banking transactions. The representatives of each bank attend at the house at 10.30 each morning, and present to each other lists of obligations on behalf of their banks. This interchange having been effected, the clerks return to their respective banks. Three other clearings, at which the same process is repeated, take place during the day. Notifications of any cheques or bills that a bank decides not to honour must be given before 4.45. By this system, transactions to the value of many millions are effected each day without the passing of a single note or coin.

Clearing House, Rall ways, an association of which nearly all the railways of England and Socialand are member, and utilised for settling the accounts of the various companies having running powers over each other's lines. It also de 3s with various matters connected with the general relations and working of the different railways.

the different railways.

Clearing House, Stock Exchange, deals with Bonds and Shares on much the same principle as that of the Bankers' Clearing House in respect of cheques and bills.

Collated Telegram, a telegram that the sender has repeated to secure accuracy, and for which he pays

an extra charge.

Collateral Security is additional security give by a debtor to further safeguard the satisfying of moneys advanced.

Commission, allowance made to agents and others for effecting sales or carrying out business transactions

Commission Agent, one who sells or buys goods for another, and receives by way of remunera-tion a commission or percentage upon the amount involved in each transaction.

returned.

Committee of Inspection, a committee of creditors appointed by the whole body of creditors to supervise the winding up of the affairs of a bankrupt

or of a company.

Commodatum, a Latin term referring to a loan on condition that the actual things lent shall be

Compounding with Creditors, an agreement wheeby creditors agree to accept, and a debtor undertakes to pay, or secure payment of, a certain sum in each f, in full settlement of indebtedness.

Compulsory Winding-up is the winding-up of a company's affairs by the order and under the supervision of the Court of Bankrupitcy.

Concession, a special privilege granted by a government, corporation, or other authority to concessionares, and may include land grants, mining or building right, powers to construct railways, and the like.

Conditional Advance Note, a note given by the master of a ship to a scaman, undertaking to pay to the scanan's order, a certain sum after a certain time, on condition that the scanan goes with and serves on the ship. (See Advance Note.)

Conditions of Sale, the regulations under which

land, houses, or goods are put up for sale by public auction, and by which purchasers are bound. It is usual for "particulars and conditions of sale" to be

usual for "particulars and conditions of sale" to be printed and distributed prior to or at the sale.

Gonfirmation, a note appended to or accompanying an order. On being signed by the recover to constitutes a confirmation of the contract.

Consideration may take the form of a money payment, a delivery of goods, a promise of money payment, or a promise of delivery of goods, or consecutive five becomes pensation for loss.

Consideration Money on the Stock Exchange is the amount paid by a buy er to a seller, when a sub-purchase is probable; however, the sum stated is often not that actually received, the Stamp Act requiring that the consideration money of the stamp Act requiring that the consideration money of the sub-purchaser shall be inserted as the sun regulating the advalorent duty. Considerate Note, a form requiring to be filled up for tife despatching of goods by rail or other common

Consol Certificates are issued by the Bank of England and certify that the holder is entitled to £50 or some multiple of £50 in the Consolidated Three per

Consolidated Fund consists of several separate government funds, pledged for the payment of the interest of the National Debt, cost of Army and Naviganianeance, government salaries, &c. compose Consolis Consolis (Annuities) comprise the greater portion of the National Debt, They were organized to the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consolist of the consol

rally [175] may s to bear interest at three per cent, but the rate has been two and a half per cent, since 1903 Constructive Total Loss is a marne manance loss entitling the insurer to payment of the full amount for which he is insured on abandonment of his ship and

for which he is insured on abandonment of his ship and its contents. (See Abandonment.)

Consular Involces are invoices of goods requiring to be electared before and certified by the consul of a country to which they are being exported. Such invoices are only equired in respect of goods for the chief South American States, Portugal, and the United States, and as regards the last named country only when the goods exceed £20 in value,

Contango, a cant term of the Stock Exchange denough the charge made for carrying over a trans-

denoting the charge made for carrying over a trans

denoting the charge matter in Carrying over a trans-action from one settling day to the next. Contango Day, otherwise "continuation day," or "making-up day," is the second day before setting day, when arrangements are made as to carrying over

Contingent Liability, a liability which may be discharged without any liability accruing. Thus, the liability of a banker who accepts bills for a customer of substantial position is not likely to accrue.

Contract, any binding agreement between two or more parties, and implying both an agreement and an obligation. There must be offer and acceptance, legal capacity to contract, consideration, and genuineness, otherwise the contract is voidable.

Contract Note, a sharebroker's written particulars of a contract made by him for a client.
Contributories, persons liable to contribute to the amount uppoad on their shares in a limited company in case of that company-being wound up. In case of the realisation from existing shareholders being insufficient to discharge the company's indebtedness, those who have been shareholders within a year of the winding up are liable to be called upon as contributories.

Convertible Paper Currency is one that can be converted into cash on demand, as a Bank of

be converted into cash ou demand, as a Bank of England note.

Convertible Beourtiles are such as are always marketable and convertible into money. Consols, railway stock, and exchequer bills, for example.

Co-operation, as the tenn is generally employed, signifies the union of persons of small means for the purpose of buying necessanes and other things at the lowest rates, and sharing any profits that may arise in proportion to the capital or labour invested. The first co-operative store in England was started at Rochdele in 1844. The movement was caserly taken up in the in 1844. The movement was eagerly taken up in the great manufacturing districts, and to-day it embraces a vast organisation. There are now some 1,600 co-operative societies comprising considerably over 2,000,000 members. The two wholesale co-operative societies effect sales to the amount of about £30,000,000 per amium.

Copyright, the right of ownership in a literary or art production, vested in an author or producer or his assigns for the life of the author and seven years after, or the full period of forty-two years after publication,

whichever shall be the longer.

Cost, signifies the total sum necessary to be paid to cover the expense of making, producing, and reminierat-ing services, in respect of any article or commodity. Cost and Freight, a term used in respect of goods sold at a price envering cost and carriage. Cost Book Plan indicates a method of accounts

COSE BOOK Flam indicates a metino of accounts used by mining compliance composed of what are called "adventurers," who, by arrangement with a landowner, search for mineral, and in case of discovering it take a lease by which the owner receives a share of the output, and the rest of the yield is the profit of the operators. All particulars are entered in the "Cost Book," and a shareholder can withdraw at any time so long as he has discharged his proportion of the habilities.

Council Draft is a negotiable instrument drawn

touncil Drake is a negotiative instrument drawn by the Secretary for India upon the Indian Council and payable at the Bank of England.

Country Clearing, the clearing of cheques and bills paid into country lasts, through the London Clearing House by the London agents of the banks.

Country Notes, the bank notes of any bank of issue other than the Bank of Fingland.

Coupon, a detachable portion of a ticket or document; in banking and business, a warrant or certificate for the payment of interest or dividends; in travelling, one of a series of tickets issued to cover rearrange, one or a series or tickers issued to cover separate portions of a journey; and as used in periodicals and newspapers, a form entitling the powersor who fills it up to engage in some competition, Course of Exchange, the price given in one country for a specified sum in the currency of another country.

Cover, a deposit of cash or securities ensuring the

deposite a against lors in stock exchange or other operations carried out on the depositor's behalf.

Credit, Letter of, a letter from a bank firm, or one person to another, authorising payment to a third person named of a specified sum, for which the sender

person named of a specined sum, for which the sender assumes responsibility.

Credit Note is an acknowledgment, by a seller, of defects in a thing he has sold, and forms a note of credit for a certain reduction of charge in consequence

ow the defect,

F Cum Dividend, a transaction that carries with it
the right to receive the dividend then falling due.

Cum Drawing, a sale of bonds, carrying with it
the right of any profit to accrue from the ensuing

drawing.

Cum New. The right is sometimes accorded to shareholders of a company to have allotted to them

new shares that are being issued on more favourable terms than they are offered at to the general public. Shares sold at this period are said to be "cum new," carrying the right of the special terms of purphase. Cumulative Preference Shares for shares the dividend on which is a fixed rate and in default of recomment.

payment in one year, or in any number of years, the amount accumulates until payment can be made. Such dividends take priority over other dividends, though not overdebenture interest. (See **Preference Shares.**)

overdebenture interest. (See Preference Sharea.)
Currency by Tale was the old form of currency of which the Greek obolus may be taken as an example, admitting of being passed from one to another by simple counting, without other test of value.
Currency by Weight, the primitive form of paying by weight of metal, beiner the introduction of coinage, Currency Bonds are bonds guaranteeing the repayment of principal and interest in the currency of the country of their issue.
Currency Primarile submer and desired the currency of the country of their issue.

Currency Principle, a phrase used to describe a method adopted by some banks of maintaining an exact equality between the amount of credit and the amount of specie, relying on commission charges for their profits.

Current Account, the amount of money a person has deposited at a bank, and on which he can draw from or add to as may be desired, no interest being chargeable on either side

Customs are duties levied on goods imported or exported, and have been charged since Anglo-Saxon days, varying greatly from period to period according to necessity, kingly greatly for a period cacording to necessity, kingly greatly of a special emergency. Since Free Trade was practically established in this country customs changes have been greatly restricted, still even now the revenue from customs reaches some

still even now rise revenue from customs reaches some-bing like thurty-five millions sterling in Great Britain, Customs Bills of Entry, a daily list issued by the Customs' authorities to subscrubers, including a full list of ships' reports inwards, with their cargoes,

min use or super reports inwards, who their cargoes, also of ships saling, with other particulars.

Customs Debenture, a certificate in respect of exported goods entitled to drawback, for duty already paid, which the delienture enables the owner to get

Customs Declaration, a form that has to be filled up and signed by one who sends goods abroad, stating the nature, weight, and value of the goods. Customs Duties are duties payable on unported goods, the nam articles of which, as regards this

goods, the main articles of which, as regards this country, are tea, ordier, coca, dried fuilts, tobacco, eigers, wines, spirits, and cordials. The number of dutable articles has been reduced from some 1,200 articles in Rao to about 50 at the present time.

Customs Entry, a statement of particulars of the nature, value, and weight, of imported or exported goods furnished to the customs officials.

Dandy Mata. Tournthy a victory house order

Dandy Note, formerly a custom house order stactioning the transfer of goods from warehouse. Term now obsolete, (see Shipping Bill and Note.) Day to Day Loans, money horrowed for a day at a specified rate of merest, and renewable from day

to day by mininal agreement.

Dead Account, the account of a deceased person.

or an account that has ceased to be operative.

Dead Freight, the amount charged for empty space to one who having chartered to load a full cargo falls short of requirement.

Dead Loans are loans unpaid at the specified date, or for which no day of repayment has been stipulated. Dead Reckoning, a nautical term used in calculating a ship's position it sea from the distance shown by the log only, with allowances for leeway, etc., without astronomical observations.

Dead Recurity, a term denoting industrials securities on which there can be denoted by the decimal securities of the security as term denoting industrials securities on which there can be no realisation unless securities on which there can be no realisation unless securities on which there can be no realisation unless.

the properties are operated. Dead Weight, cargo that pays freightage according to weight, prespective of measurements, such as

iron, coal, etc. Debenture, a document, or certificate, signed by a public officer, corporation, or company, acknowledg-

Ing indebtedness for money lent and guaranteeing repayment with interest.

Debanture Bonds are the bonds of a government, company, or corporation, engaging to repay a specified borrowed sum, with interest, at a time named, the interest being payable periodically by coupon until the bond matures and is paid off.

Debenture Stock differs from debenture bonds in that it is usually irredeemable. The principal sum is registered in the owner's name, and the interest, which takes priority of dividends, is paid by warrant to

is registered in the owner; name, and the interest, which takes priority of dividends, is paid by warrant to the owners order.

Dabls Note is a note giving particulars of an allowance claimed in respect of defective or damaged

Debt, a term generally applied to an amount due or

Debt, a term generally applied to an amount due or payable from one person to another in return for meney, services, goods, or other obligation.

Decimal System is based on a unit of ro, and for purposes of calculation is much simpler than the English system. It is in operation in France and other European countries, also in the United States.

Deck Cargo is cargo carried on deck in repart to which no liability for diamage attaches, unless there is an express stipulation, to that effect.

Deed is a written or printed document under hand and scal It must be signed in the presence of a witness or witnesses, must hear a seal, and must have formal "delivery"—that is, the sugner must either give constructive delivery by placing his finger on the seal and saying, "I deliver this as my act and deed," or actual delivery by handing over the deed. Without "delivery" the deed is inoperative.

Deed of Arrangements, a ciced of assignment

Deed of Arrangement, a deed of assignment or composition, whereby a debtor conveys property effects, goods, or debts to a trustee or trustees for realisation and distribution among his creditors on the terms specified. Such a deed requires registration as a bill of sale within seven days of execution.

Deed of Inspectorship is a deed providing for the realisation and winding-up of an insolvent debtor's

estate by trustees or inspectors.

Deferred Annutties are such as do not come into effect until such a specified later period as agreed upon. Such annuities are purchasable at any post office. In case of death before a deferred annuity

begins, the purchase-inducy is not returnable.

Deferred Bonds are bonds issued by a government, corporation, or company, entitling the holder to a gradually increasing rate of dividend or interest, until a fixed maximum rate is reached, when they become converted into ordinary bonds.

Deferred Stock or Shares are such as do not

rank for divident until after the ordinary, preference, and gurrantee dividends have been provided for.

Deficiency, the allowance for sbrinkage, by evaporation or otherwise, in dutiable goods during

evaporation or otherwise, in dutatile goods during their storage in bond.

Deficiency Bills represent temporary loans made by the Bank of England to the Government.

Delivery Order, an order, signed by the owner of specified goods, addressed to any person or official having charge of them, and requesting delivery of them to the person named in the order. It is negotiable to the extent that it can be placed with a banker to secure any advances he may make on the banker to secure any advances he may make on the goods. Since 1906 there has been no stamp duty on a

Delivery Order.

Demand Draft, a bill of exchange payable on

Demonetise is the act of depriving coin of the quality of legal tender.

onamy or logar tender.

Demurrage, a charge to which the charterer of a ship is liable by neglecting to load or unload within the time named in the charter-party. The term is also used in connection with delays in removing goods after being conveyed to the station of destination.

Deposits, in the commercial sense, comprise deposits of money for employment in business, deposits of money for employment in business, deposits of negotiable securities with a benker for safety, deposits of similar documents as security for loans, deposits of money or bills in a bank in the ordinary course of business on current account, and deposits of sums at interest.

Deposit Account, deposits of money with bankers withdrawable only on giving a specified previous

Deposit Receipt, bankers' receipt for moneys deposited, specifying the terms of the deposit. Deposite Warranta acknowledging the deposit of articles as security for loans are of two kinds, special and general. The former includes bills of ladking, pawn tickets, dock warrants, and applies to actual goods returnable on repayment of loans, &c.; while the latter does not apply to specific goods so much as to values.

Dereitot, a vessel abandoned by i's crew, and in respect of which salvage accrues to those who save

m respect or which salvage accrues to those who save it, or what it contains.

Despatch Money is the opposite of demurrage, being money allowed by a shipowner when a chartere loads or unloads in less ta shipowner when a chartere loads or unloads in less time than originally specified.

Despatch, the note sent by the Customs with dutiable goods, and necessary to be produced at the place of destination.

Deviation, a marine insurance term indicating an alteration of course from that set down in the policy, a departure which, unless made for avoiding perils, annuls the risk of the underwriters.

Differences are payments representing the difference between contract prices and market prices, occurring between speculators who buy and sell apart from the wish to possess. Contracts to pay differences cannot be enforced.

Discount is a deduction which is customary to be made for prepayment or prompt payment of money due. Bank discount is an advance charge reckoned at

simple interest rates on the amount of a note or bill.

Dissounting a Bill, the act of purchasing at a certain deduction or discount, a bill of exchange, and the right to realise upon it at maturity. The rate of discount varies with circumstances—the credit of the parties liable on the bill, the current rate of interest, other matters.

Discretionary Order, an order from a client to a broker to purchase stock up to a certain amount at

discretion.

Distinguished to accept a bill of ex-

maturity.

Dissolution of Partnership, the discontinuance of a partnership from any legal cause, a notice of which must be inserted in the London Gaestie, and also specially intimated by letter or notice to all with whom the firm have had dealings.

Distress or Distraint, a legal term implying the act of distrainty for non-payment of cent, a remedy that dates back to Auglo-Saxon times, but does not obtain in the United States, and in some other countries. Distresses for rent have to be made by day on the premiser rented, but if the chatrels by day on the premises rented, but if the chattels have been frauduently, taken away, they can be followed and seized at anystime within 30 days.

Dividend, a periodical payment of interest on an investment; and when declared upon the capital of

Investment; and when declared upon the capital of a company undertaking it must be out of profits alone. A dividend may also be a composigon or part payment in respect of a claim on the estate of a bankrupt, or a compfly in liquidation.

Dividend Warrants are written orders to a banker authorising the payment of dividends, and are

negotiable.

Docket, a summary copy of any decree; a brief list or label; derived from dock, to curtail.

list or label; derived from dock, to curtail.

Dock Warrant, which must bear a 3d. stamp, is an instrument issued by a dock-owner or company is a favour of a person specified by the owner of goods warehoused in dock, and entitles such preson to take possession of the goods. Advances on dock warrants are readily made by bankers.

Document Bills are bills of exchange attached

to the bills of lading, policies, or invoices, in respect of which they have been given. Should a bill of this class be dishonoured, the holder can claim on the document. **Domiciled** is a term applied to a bill of exchange

made payable at a particular place.

Donatio Mortis Causa, a donation in prospect of death.

Draft, a written order for payment of money; a

Drawts, a written order for payment of money; a bill of exchange.

Drawback, the amount returned by the Customs on expected goods which have already paid duty, and payable duty to the actual owner of the goods.

Drawas, the person on whom a bill is drawn, his liability on which does not come into force until he signs and accepts it, after which he is the acceptor.

Drawas, the person who draws a bill, who in case of dishonour is liable to the holder or any indorser who is convenient to rear it.

of dishonour is liable to the holder or any indorser who is compelled to pay it.

Drawn' Bonds are bonds of a class in respect of which periodical drawings are made, such drawing being by lots, the holders of such as are drawn being entitled to payment in full, after which time, if unredicemed, no interest is paid.

Dutch Auction, the "cheap-jack" method of starting the sale of an article at a price, and gradually lowering it to an amount at which a sale is effected, or the article withdrawn.

the article withdrawn.

Duties are taxes levied upon goods, commodities or manufactures. In the case of imported or exported goods these duties are called customs, while duties on home products fall under the head of excise.

home products fall under the head of excise.

Easement, a legal term applied to a privilege enjoyed by any one over another's property, the most familiar example being a right of way.

Ejectment. When a tenant after the termination of his tenancy, either as the result of a notice to quit or otherwise, continues in possession of premises, an action at law can be commenced, and what is called a writ of ejectment issued, If the rent be over 100 a year the action must be if the High Court, otherwise the County Court must be appealed to.

Embargo, a Government order, mostly issued in war

Embargo, a Government order, mostly issued in war time, prohibiting vessels from leaving port, but not applicable in this country to ships carrying wheat.

Emblements, are growing crops to which an outgoing tenant has a right if his tenancy terminates before they can be harvested.

Endorses, the person to whom a bill of exchange passes when made over to him by endorsement. Endorsement, the signing of one's name on the back of a bill, an act which transfers the right in it to

Endowment Policy is one on which premiums are payable only for a prescribed period, after which the insurer has no other liability, and may either receive the amount for which he is insured, let it remain to accumulate with interest, the whole to be paid at his death, or take anganauity based on the policy value, as may be stipulated in the policy.

Enfaced Paper is the "rupee paper" of the

Indian Government,

Engross is an ancient mercantile term connected
with the idea of monopoly. To engross was to buy
up an article in order to increase prices. It also
means to write or copy in a hold clear hand.

Entry, particulars of goods imported or exported,
supplied for registration at the Customs House, and

compulsory whether the goods he liable to duty or not.

Entry for Warehousing, an entry made at
the Customs House giving particulars of dutlable goods to be stored on import in a bonded warehouse, and not liable to duty until taken out for consumption

to be stored on import in a bonded warehouse, and not liable to duty until taken out for consumption.

Equation of Payments, an antihmetical operation determining the date at which a single payment may be made instead of several payments due at various times.

Equitable Horigage, a charge created on an estate, either by exposit of title deeds or by agreement in writing, which does not as in an ordinary mortgage constitute a transfer of the legal estate.

Errors and Omissions Excepted [E.E. action of the continuous exposition of the discovered.

Estate Duty is the duty payable upon the value of property, of which any person may die possessed.

Estoppel, a legal term indicating that a person is barred of a legal remedy because of some former act which precludes him of the right. Estoppel may be either by deed or act.

amount of money for which a contracting party will perform certain work, or supply certain goods. Batrack, a certified copy of an original document or record in regard to fines or an eggenerate. But term is also applied to the levying of fines under an

estreat.

Ex All, a Stock Exchange term signifying that the stock or shares specified as being sold are sold apart from any dividend, bonus, or profit then due.

Exchange is the giving or receiving of one thing for another; also the name of any building set apart for the meeting of merchants and others for purposes

of buying and selling.

Exchaquer, which derives its name from the checkered table on which accounts were calculated in carety. Normal times, is a term connected with the revenues of the Crown. The Court of Exchequer Division existed up to 1881, when it was abolished. In former times it had jurisdiction in all revenue matters. The term Exchequer is now mainly applied to the Governmental department which deals with the public consenues and it resided over his Charachles who is revenues, and is presided over by a Chancellor, who is a Cabinet Minister.

Exchequer Bills, bills issued by the Treasury for sums varying from £100 to £1,000, and bearing interest at the rate current on the day of issue. They are made repayable, at par, in a year from date, but can be renewed annually.

Exchequer Bonds, which are made payable to bearer, are issued by the Treasury for sums borrowed. They are for a specified period (which must not exceed six years), at the expiration of which they are redeemable at par.

able at par.

Excise Duties are inland taxes imposed on articles of home product for home consumption, or on their manufacture or sale, and were first established in

their manufacture or sale, and were first established in England in 1043.

EX-Drawfig, without drawing, a term used in regard to bonds sold, and indicating that the buyer is not to have any benefit that may accrue from a drawing tem taking place.

Execution, a process of court whereby, default having been made in satisfying a judgment, a wnt or order of execution is issued authorising the sheriff or build to select and sell the goods of the debtor, or such portion of them as may be necessary, to discharge debt and costs.

Ex Mero Motu, of one's own action

Ex Mero Motu, of one's own action.

Ex-New, not including the right to new stock or shares about to be issued, and for which the shares purchased might entitle their original owner.

Ex Parts, on behalf of, a term used in reference to any proceeding taken by, or concerned with, one party alone, apart from other parties interested.

Expected to Rank, an expression referring to such of a bankrupt's labilities as may be expected to be entitled to rank for dividend against the estate.

Ex-Ship, a sale of goods on shipboard, all the cost and responsibility of the removal of which falls on the ourchaser.

purchaser. Bx-Warehouse, a sale of goods, the cost of removing which from the warehouse must be borne by

Face Value, the nominal value marked on the face

Face Yalue, the houses of a secunity—the par value. Factory and Workshops Act, 1901, is the Act under which all factories and workshops in the resent regulated. Factories United Kingdom are at present regulated. Factories are divided into two classes, textile and non-textile. are divided into two classes, textue and non-textue.

The Act provides improved regulations as to the sanitary condition of factories and workshops, guards against overcrowding, requires certain things to be done for safety, prescribes who may be employed, and for what number of hours per day or week, etc., and provides an elaborate organisation of inspectors to see the Act enforced.

The Simple, land in absolute ownership, and at the cornecte complete disposal

the owner's complete disposal.

Fee-Tail, freehold property entailed in a certain line of descent.

Fiduciary Loan, a loan granted without any

security being given.

Fiduciary Note Issue, an issue of bank notes without the provision of a money reserve to meet them,

relying on the confidence of the public and the honour of the bank.

of the bank.

Fine, a sum of money which a legal tribunal, or other properly constituted authority, imposes on a defaulter, transgressor, or trespasser, the payment ordinarily being held to discharge the grievance.

First Class Faper, bills, notes, and other securities given by firms, companies, corporations, or Governments of high position and undoubted solvency.

First of Exchange, the first of a set of foreign bills of exchange, usually drawn in triplicate. If the first be paid or satisfied, the others fall valueless,

First Onen Wather, a marine term introduced in

First Open Water, an others an valueless.
First Open Water, a marine term introduced in charter-parties relating to vessels proceeding to the Baltic ports, and denoting the time when a ship first touches the open sea after the breaking up of the

Fixed Capital is money invested in land, build-ngs, and other property of a more or less permanent

ings, and other property or a more or less permanent nature, such as railways, tramways, factories, etc.

Fixtures are legally such moveable additions to a building or land as when actually secured become part of the freehold. (See also Tanant's Fixtures and Trade Fixtures to the factories of the freehold.)

Fisch Points, the temperature at which oil becomes explosive. In the United Kingdom the fash

point is 73.

Floaters, a Stock Exchange term referring to what are called Bearer securities, on which loans are what are called a stock loans on them are called in readily raised, and as the loans on them are called in by one bank are passed to another, and so on, hence the name "floaters."

Floating Capital is capital which a trader for banker reserves for ordinary business or financial operations and does not appropriate for fixed or permanent investment

manent investment.

Floating Policy, a marine insurance policy that covers certain specified goods without naming the ship by which they are to be conveyed.

Floating Security, a term used in regard to the security of a limited company, and forming a charge on its assets, but not enforceable unless there is default

on its assets, but not enforceable unless there is default in payment of principal or interest.

Flotaam, a legal term applied to goods lost at sea belong to the finder, but must be delivered up to the sightful owners, or, if no owner appears, becomes forfeit to the Crown. The finder, however, is entitled to a reward proportionate to the value of the goods. (See Jetsam.)

Folio, a term of four different meanings: (1) in bookkeeping it means two pages facing each other; (2) in calinary legal documents provide constitute a folio: (3) in Parliamentary documents there are so words to the folio; and (4) in printing the folio is the number of any single page,

number of any single page.

For Money, measuring a sale "for money" on the
Stock Exchange involving jumediate delivery of the
securities purchased and payment on receipt, a class
of transactions applying specially to Consols.

For the Account, Stock Exchange transactions
included in current account for settlement on the next

FOR EMB AGOGUTS, STOKE EXCHANGE TRANSPORTS.

FOUL Bill, a document given by a Consul or other settling day 9

Foul Bill, a document given by a Consul or other competent official to the master of a vessel on leaving port, certifying that at the time of clearing the port was infected with contagious disease.

Foundare' Shares, are such as are granted to persons concerned in the founding and originating of a company, as compensation for their promotion or other services. They are usually issued tully paid up, and often carry with them special profits and privileges.

Frae of all Average, a marine insurance term entoting that no claim for partial loss or average, but only in respect of total loss, can be entertained.

Frae of Capture and Selsure on insurance term expressing non-liability in case of a ship falling into the hands of a belligerent or other capturing force.

Free of Expense to Ship, a clause throwing all liability for cost of loading or unleading on the

charterer.

Free of General Average, a clause in a marine policy absolving the underwriter from general average contributions. (See "General Average.")

Free of Particular Average, a clause defining the insurers non-liability for partial loss, unless the same has been brought about by accident or unavoidable cause

Free Overside, a term indicating that the risk of goods sold is with the buyer after being unshipped.

Free Trade was advocated by Adam Smith in his Wealth of Nations, and after a long and bitter agita-tical, in which Cobden, Bright, Miner Gibson and others actively championed the cause, the principle was legally established in this country by the abolition of the Corn Laws in 1846. By establishing free interof the Corn Laws in 1846. By establishing free inter-change of commodities without protective duties, British trade expanded at a wonderful rate during the following three decades, and few were found to favour the old principles of protection. Meanwhile, America, Germany, and other countries were fast building up large industries, and setting up high protective duties against foreign goods. About 1880, in consequence, nany manufacturers and merchants in this country began to combine in a Fair Trade organisation, which, however, did not make such headway as to bring about any reversal of Free Trade policy. In May, 1903, Mr. Joseph Chamberlam, who had previously been a staunch Free Trader, advocated a new fiscal policy, in which retaliation by protective duties against such countries retailation by protective duties against such countries as use protection against Britain was proposed. This led to a considerable split in the Unionist party, and Mr. Chamberlain himself resigned his position as a Cabinet Minister in order to have a free hand in urging Cabinet Minister in order to have a free hand in urging forward the new movement. Mr. Balfour, the then Prime Minister, declined to avow himself either completely on the side of Mr. Chamberlain or as a Free Trader, and all the Free Trade members of the Ministry thereinjon seceled, including the Duke of Devonshire, Lord Balfour of Burkeigh, Lord George Hamlton, and Lord Ritche. Since then much discussion has taken place in regard to the fiscal question, and sithough the vertice of the electors in 1906 seemed to be in favour of Free Trade as a general principle of policy, the aquation for Traff Reform has increased rather than dimmished. Since then both sides of the subject-have been actively advocated, and the Unionist subject these channes. Since then poin sides of the subject have been actively advocated, and the Unionist party as a whole stands pledged to the principles of Tariff Reform.

Freshold, real estate held in fee simple in per-peruity. (See Fee Simple.)
Freight, charges paid for carriage of goods of merchandise by ship; a term still used in the older sense to denote the goods themselves.

Freight Note, statement giving particulars of

Freight Release. When goods have been shipped "freight forward," a note of "freight release" showing that all freight charges have been paid must be produced to the master of the ship before they can be taken away

taken away.

Funded Debt, the Government's debt in respect
of which there is no obligation to pay within a fixed
period, or the date of repayment is at some remote
date, and taking the form of Consols chiefly.

Funding, the operation whereby a floating debt
is converted into stock

is converted into stock

Futures, foreign produce bought for future shipment, and representing speculative operations with a view to "cornering" tactic.

Garnishes, the person on whom a garnishee order

is served.

Garnishea Order, an order of court attaching money or goods belonging to a judgment debtor, the object being to prevent such money or goods being handled by the debtor instead of applied for the benefit of his creditors

Garnishment, notice to a garnishes concerning goods or moneys in respect of which a garnishee order has been obtained

has been obtained Gazette was the name given to the first news sheet published in Venuce about 1536, and named after the coin gazetta, which was its proce. The term is now in general use, but applied more particularly to publications of an official character, such as the London Gazette, which contains Court and Govern-ment notifications, lists of public appointments and honours, legal notices and lists of bankrupts. The

London Gazette was first established at Oxford in 1665, There are similar official publications in Edinburgh and Dublin,

GiveOn, the paying of contango.
Godown, an Oriental storage warchouse.
Gold. (See article on Gold in General Informa-

tion section.]
Gold Bonda, bonds payable in gold coin.
Good Delivery, a Stock Exchange term indicating that a security is in proper form and condition.
Goods and Chattels include all kinds of morable property, as well as rights of action, bills, debts, banknotes, bond, etc.

Goodwill is the intrinsic value of the good repute and custom of an established business.

Grace, Days of, a period of three days allowed by custom of law beyond the fixed day of payment for a bill of exchange or note. Should the last day of grace fall on a Sunday, or other non-business day, the bill or

note is due on the preceding day.

Groundage, the charge for space occupied by a

ship while in port.

ship while in port.

Graving, the cleansing of the bottom of a ship.

Graving Dook, a dock where ships are graved.

Ground Rent, rent payable to the owner of
freehold land for the privilege of erecting and
maintaining buildings upon it for a specified term
of years, after which the buildings become the
property of the landowner. The buildings are
leasehold property.

Guarantee Fund, a reserve fund set apart to
meet possible losses

Guarantee Society, one which guarantees

Guarantees Boolett, one which guarantees

meet possible losses
Guarantee Boolety, one which guarantees
employers from losses in respect of the defaults,
ornissions, or malpractices of employees. The
guarantee takes the form of an insurance policy,
on which an agreed annual premium is paid.

Guaranteed Stock, stock, the interest on which,

or the principal, or both, is guaranteed

Habeas Corpus, the name given to a writ order-Habbas Corpus, the name given to a writ ordering the holy of a person under restraint or imprisonment to be brought into court for full inquiry into the legality of the restraint to be made. The first Habbas Corpus Act was passed in 1679, though noninally such a right had existed from Magna Charta, but some of the more despotic kings had disregarded it. In times of public perhit the privilege of habbas corpus is sometimes temporarily suspended, many instances occurring in the wrest history of Ir hand.

times temporarily suspended, many lastances occurring in the recent history of Ircland.

Half-Notes. In remitting money, business mesometimes forward half-notes forwarding the other halves on the first being acknowledged. In regard to this practice it is important to know that the property in entire note relongs to the sender until he parts with

the second half.

Hall Marks are official marks impressed upon gold and silver articles, testifying to their genuineness and value. The stamping is entrusted to the Goldsmiths' Company of the City of London, at Goldsmiths' Hall, and the marks are the standard of quality, the maker (and sometimes) workman's mark. The term "hall-mark" in common metaphorical use in writing and speech is an indication of quality.

Hammered, a stock-exchange form of proclaiming a defaulter When a member is unable to neet his engagement, the fact is notified from the rostrun, first of all, by striking three blows upon it with wooden hammer, which calls the members up. The wooden named; which cans the memoers up. The name of the defaulting member is then given out, and he is expelled or temporarily suspended. On paying not less than 6s. 8d. in the £, the defaulter's claim for re-admission will be considered by the committee, and if there are no other charges against him, he may again become a member, but even then he is not discharged from after hability in respect of the balance of his indebtcdness.

Haulage, charges for the use of trucks, wagons, or carriages, from one point to another, exclusive of loading and inloading them.

loading and inloading them.

Heavy Stock, a term referring to the stock of railways handling a heavy goods traffic.

Hereditaments may be corpored—as land, or any substantial and permanent property thereto

attached; or unattached, including goods or jewellery; and istoopporeal, as real charges upon property, the right of user in articles, or offices and hydreges issuing out of corporeal holdings. Interporeal hereditaments comprehend franchises, annuaties, ways,

commons, advowsons, titles, and the like.

Heritablo Bonds are such as include a conveyance of land that comes into operation should the bond itself not be redeemed, or the interest pand, as stipulated.

High Seas are the seas that are open to all, and represent the entire sea-space beyond three miles of the shore.

Hire Purchase, goods obtained on hire which become the absolute property of the hirer on paying the last of the instalments stipulated to be paid by the last of the instalments stipulated to be pain of him, but until then he cannot deal with the goods, having no owner-hip in them. Such goods, however, are not exempt from distraint for rent. If default be made in payment of the instalments the owner has power to reposess himself of the goods.

Bridder, one to whom a bill of exchange or cheque has been made over, and who has lawful possession of

it for the time being.

Holding Over, the act of refusing to quit possession of premises after the expiration of thestern of a tenancy, or of legal notice to quit. A hability for double rent attaches to such action.

double rent attaches to such action.

Home Consumption, a term denoting (1) goods consumed in the country of their production, or (2) imported goods stored in a bonded warehouse until duty is paid and they are brought into consumption.

Home Use Entry 2, document authorising the removal from a bundled warehouse of goods liable to duty with the consumption.

on such goods being required for home consumption.

Horse Power, the draught power of a horse, the nmt of measurement introduced by Watt for estimating

mut of measurement introduced by Watt for estimating the power of the steam-engine, and defined as 59 footquands per second. The estimate is higher than the 
average drawing power of the horse justifies, but its 
use as a working standard is not affected by this. 
Hotchpot, a legal term signifying the bringing 
into common sharing of a specified property; as in the 
case of a child, who during his father's lifetime has 
had a portion of estate given to him, being compelled, 
on the tather dying without will, to bring his share 
into hotchhot to be included in the statutory division 
ordained for intestate's election. ordained for intestates' estates.

Impersonal Accounts are such as relate to things as distruct from people, as goods, cash, etc.

In Advance of Calls, a phrase referring to payments made by sharel of lers prior to call being made on their shares.

In Ballast. A ship is in ballast when, not having any cargo, she carries some weighty substances for stability.

Income Tax is the personal impost charged on the income of individuals, and was first imposed by Pitt in 1708 to meet the heavy cost of the war with France.

Inconvertible Paper Currency is paper money which cannot be exchanged on demand by the holder for each to its full nominal value, and, owing to the uncertaint; in regard to its realisation, is at a dis-

count in the intrict.

Indemnity, a formal legal acceptance of responsibility against damage or loss in such circumstances as may be expressed.

Indents are orders from distant countries for goods, specifying particulars and prices, and owing their name to the fact that they were cornerly written on forms bearing an indented line, part of which reon forms bearing an inducion me, part of what it is mained with the sender, while the other part was on the order. With the increased facilities now existing, however, there is no special force in an indent beyond that of an ordinary order.

In Form Pauperia, a special privilege accorded by the English law to suitors who, heng unable by reason of their powerty to pay the costs of legal proceedings, are permitted to have such costs remitted.

Injunction, an order or judgment of court re-straining some person or persons from doing certain things which are detrimental to the interests of another

Inscribed Etock is stock in respect of which

holders are simply registered, no certificates being issued to them. No one can deal with such stock except actual holders or persons appointed by the power of attorney of holders.

Insolvency, the condution which marks a man's or a firm's inability to meet full monetary obligation.

or a firm's mability to meet full monetary obliga-tions. When a person is in this strait, he can either call his creditors together and endeavour to come to some private arrangement with them, according to the nature of his assets, or he can place hunself in the hands of the Bankruptcy Court, which will administer the estate and distribute the assets for the benefit of the creditors

Inspecting Order, a written order authorising cods in dock, bonded warehouse, or other place, to be shown to the holder.

Insurance, a provision or contract securing against loss by fire, tempest, or other contingency; insuring compensation for accident; allowance during ill-health; or payment of a stipulated sum at death to beneficiaries indicated. Insurances are usually effected with insurance companies, who take the hazard in consideration of annual premiums paid to them by the person insuring. The rates are based on a system of

Interbourse Securities are such as are nego-tiated smultaneously in different countries, and are dealt in at fixed rates of exchange.

Interest, in its commercial sense, is payment made for the loan or use of money, and is calculated according to a specified rate. Interest is either simple or compound. When simple interest is paid, the principal sum remains the same; in case of compound interest, each year's interest is added to the principal, and succeeding interest calculations are on the increased amounts

Interim Dividends are such as are paid on shares before the time of declaring the full dividend.

Interpleader, a form of lawsut the purpose of which is to decide between rival claimants to property or money. The suit is usually resorted to by the

which is to decide between rival cleimants to property or money. The suit is usually resorted to by the officers of the law when in possession of property of disputed ownership.

Intestacy is the condition supervening on a person possessed of property dying without having made as will. An intestate's real estate devolves upon his heir or helps; his personal estate goes to his next of kin according to the Statutes of Distribution.

IOU, an informal estate devolves upon his heir or helps; his personal estate goes to his next of kin ledgment of indeliteties written and signed acknowledgment of indeliteties, requiring no stamp, and, though ne's a promissory note, can be sued upon. The letters spain for "I own you."

Issue of Bharea and Loans. Shares are issued by the sending out of certificates in return for subscription payments, and declare the holders entitled so un many shares. A lean issue consists of bonds with a similar declaration.

Jerquez, the principal of the Customs department where all documents relating to import ships are finally checked, or jerqued.

checked, or jerqued.

Joteann, a term in navigation law, signifying cargo thrown onto the sea and sink. Such goods belong to the Crown in default of other claimants. (See

Jettison, a legal term reterring to cargo thrown overboard in time of sea-peril to save the ship. The helially to make good property so lost is apportioned according to average.

Joint Stock Companies may be limited or unlimited, and their capital must be sub-cribed by

more than twenty persons, as with fewer than twenty

more than twenty persons, as with fewer than twenty one subscribers the undertaking is a partnership. Joint Tenancy, the occupation or possession of land by persons jointly and equally entitled.

Jointure, the property settled on a woman at her marriage, forming her separate estate to be enjoyed after the death of her husband.

Journey, the teclinical name given to fifteen pounds' weight (701 sovereigns) of coined gold, or 60 lbs. weight of coined silver.

weight of contest siver.

Judgment Graditor one who has obtained a courf Judgment against a debtor.

Judgment Debtor, one against whom a courf Judgment for payment of debt has been obtained.

Easl, a ship's bottom, the chief foundation timber reaching from stem to stem and holding the whole frame together. In an iron or steel ship, the term signifies the plates that correspond to the keel timbers of a wooden ship.

of a wooden ship.

Keep House, a term applied to a debtor who
denies himself to creditors calling at his house. This
constitutes an act of bankruptcy.

Kentledge, permanent ship-ballast, and generally
consisting of pigs of iron.

Laches, in commercial law, are acts of negligence

or carelessness, in commercial law, are acts of negligence or carelessness, floatable goods cast overboard from a sinking ship.

Landing Order, a Customs document authorising the chief officer of a ship, after dues paid, to hand over goods for landing, during which process the waiter or searcher examines the goods and finally signs the order as correct.

as correct.

Lanceny in its broad significance means the fraudulent taking away and appropriation of the personal goods of another. Larceny is of two kinds: simple larceny, which is theft apart from accompanying aggravation; and compound larceny, that which is rendered more serious by being combined with assault, or forced entrance into an enclosed place, such assaults, or forced entrance into an enclosed place, such

as a house or shop.

Lastage, sand or gravel used for ballasting a ship.

Law Rerchant, the mercantile law, which embodies the customs and usages ordinarily sanctioned between merchants and traders, and is recognised as

part of the common law of the country.

Lay Days are days allowed for loading or unleading ships according to agreement, and date from the time that official permission to load or discharge

has been given, Leakage, an allowance made for losses on liquids by leaking.

by leaking.

Leakage and Breakage, a term of exception sometimes inserted in a charter party or bill of lading and indicating that the shupowner is exempt from liability for any damage of this kind occurring on a voyage, unless caused by negligence of the crew in handling or stowing the goods.

Lease, a letting, or the document setting forth the letting, of lands, tenements, machinery, or other property for a specified consideration and time. A lease for a longer period than three years must be by deed.

Leaseholds, which are personal property, how-ever long the term, are lands or houses held on lease, subject to the payment of ground rent to the free-holder.

noider.

Legacy, a gift by will of personal property. There are three clisses of legacies: (1) general, being payable out of a testator's general assets; (2) specific, when comprising a specified bart of the testator's property; (3) demonstrative, when a certain fund is made liable for the discharge of the legacy; but if the fund-has caused to exist or is inadequate the general estate

ceased to exist or is inadequate the general estate must supply it.

Lagal Day is the whole of the twenty-four hours of a day, from one rudnight to the next.

Lagal Tender of reld is good in this country to any amount; of Bankof England notes for any sum above \$5, except in certain circumstances by the bank itself; silver is legal tender up to 40s.; bronze up to 1s.;

silver is legal tenner up to 4.05., Schule farthings up to 6d.

Letter of Allotment, a letter informing an applicant for shares that certain shares have been allotted to him. A stamp duty of rd is chargeable on such letters for less than £5, and of 6d, for higher

Latter of Cradence, a letter given by a monarch or other head of State to an ambassador for delivery by

or other head of State to an ambassador for delivery by the latter to the ruler of the country to which he is sent. Letter of Indemnity, a letter undertaking to be responsible for any loss or damage swetained in circumstances specified. Letter of Licence, a document signed by credi-tors, authorising a debtor or other person to carry on a business for a specified time, and undertaking to abstain from taking proceedings during that time. Letter of Renunciation, a letter sometimes

appended to a letter of allotment, enabling the allottee, by filling up and signing it, to renounce his allotment if he destes to do so. Latters of Administration, the Probate Court

document of authorisation to the next of kin or other representative of a person who has died intestate to administer the estate according to the Statutes of Distribution.

Liabilities by Endorsement are liabilities incurred by the endorsement of bills or other negotiable instruments whereby the endorser becomes responsible for payment should the other parties to the document make default.

make default.

Libel, any writing, printed matter, picture or filustration put forth with malicious intent for the purpose of injuring or bringing a person into public ridicule and contempt. An aggrieved person may proceed either by civil action or criminal indictment. A good defence is that the words compianed of are true and to the public advantage to be made known. Since 1851 no newspaper proprietor could be criminally prosecuted for libel without the fiat of the Public Prosecutor. A sooken libel is defaulded. spoken libel is slander.

spoken libel is stander.

Licence, special permission to do or sell certain specified things, usually such as are liable to excuse duty! Licences are required for keeping carriages, dogs, for shooting game, for hawking and peddling, for selling beer, ale, wines and spirits, tobacco, patent medicines, etc. Excise duties in the United Kingdom

medicines, etc. Excise duties in the United Aingions produce over thirty millions sterling.

Lian, the right by whis ha person holding personal property of another can retain possession of it until some claim that he has against the original owner is

Light Dues are charges ievied on ships for the maintenance of lighthouses, beacons, etc., around the CORSES

Limitations, Statute of, passed in the reign of James I., still remains in force, whereby it is laid down that actions for trespass or debt, or simple contract, cannot be instituted after the lapse of six years from the date of the cause of action; that actions for assault, menace, or imprisonment must be brought within four years; and actions for slander within two years. Actions for the recovery of land must be commenced

within twelve years,

Limit, a point of price fixed by a principal, beyond
which a broker or agent is restricted from buying or

Limited Liability in regard to companies has been in operation since 1855, and in the case of such undertakings as are registered as "Limited," the liability of shareholders does not extend beyond the liability of shareholders does not extend beyond the paying in of the amount represented by their respective shareholdings. After the passing of this Act limited companies were formed in profusion, and the system was much abused, rendering further restrictive legislation necessary. Many serious company frauds were brought to light from year to year, and in 1807 a fresh Companies Act was passed compelling the publication of such facts and particulars as now renders this class of fraud more difficult of perpetration.

Liquid Assets consist of readily realisable property, such as cons, notes, Consols, and other high-class securities.

Liquidated Damages, an agreed amount of damage in case of breach of contract; or, in an action, the definitely ascertanable amount that may be indisputably due.

Lloyd's, started as a meeting-place for merchants and shipowners at a coffee-house in Abclurch Lanc, London, kept by Edward Lloyd, gradually developed into a very powerful association, and since 1774 has had its offices in the Royal Exchange. The members of Lloyd's mostly engage in the business of insuring or "underwriting" ships.

Lloyd's Bonds owe their name to the lawyer who settled the form of them, and are sometimes used by corporations in place of debentures as security for loans.

Lloyd, Rustian, an association of Austrian merchants, founded in 1873 at Trieste on the lines of the British Lloyd's, and owning lines of steamers and interesting itself in literary and scientific affairs.

Lloyd, North German, an important company Lloyd's, started as a meeting-place for merchants

owning powerful lines of steamers trading between Germany and all parts of the world.

Lloyd's Foiley, a document signed by underwriters at Lloyd's setting forth? the terms of the particular insurance effected by it.

Lloyd's Register forms a full record and classification of all British ships, and of foreign ships classed in the register, and is published yearly. The surveyors of Lloyd's make periodical surveys of vessels, and keep a systematised inspection over ships intended for classification. The first-class mark for ships is At. Lloyd's Register is now kept in a handsome and spacious building at the top of Lloyd's Avenue in Fenchurch Street.

Fenchurch Street.

rencturen Street, the act of an employer, who, by reason of trade disputes, or other cause, closes his factories or orkshops against his employees.

Logi, a line used for reckoning the speed at which a ship is traveilling. It was first used in the roth century. The line is divided into spaces of 50 ft. marked off by knots and measured by a half-minute sand glass, bearing the same proportion to an hour as 50 ft. bear to

Log-Book, the book in which the records of the takings of a ship's log, as well as the chief incidents of

kakings of a sinp's log, as well as the chief incidents of a voyage, are entered.

Long-Dated Bill, a money-market term denoting a bill of exchange for a longer than ordinary period.

Long Exchange, a term referring to the rate of exchange on bills having three months to run.

Long of Stock, an American Stock Exchange expression referring to one who holds stock in anticipation of a rus; equivalent to our "bull" operations.

Made Bill, a bill of exchange negotiated in England and payable in another country.

Maintananae, a legal term signifying the interference in a suit by someone having no direct interest in it, and constituting a punishable offence.

Making a Market is a method sometimes adopted by company promoters prior to share attorment in order to force a demand. Brokers are commissioned to buy in the market at a price slightly beyond the nominal value, a jobber is arranged with to sell them, and an artificially manipulated demand is started. Thus a favourable impression of value and demand is created and the public may be induced to apply for shares in considerable numbers.

Making a Price, the quotation by a jobber of the rice at which he is researed to huy or to sell.

apply for shares in considerable numbers. **making a Price**, the quotation by a jobber of the price at which he is prepared to buy or to sell. **making-up Price** the price at which stocks or shares are closed for the current settlement. **mandamus**, a wirt commanding the performance of certain acts or duties. **maniferation** to the current settlement of certain acts or duties.

various packages comprising the cargo of a ship, and the port for which she is bound.

Manifolding, a cant term applied to a fraudulent sense with-mar notes. A man cuts a banknote in two, sending one half to one tradesman with an order for goods, and the other half in the same way to another tradesman, impressing upon both the importance of despatching the goods unmediately. trick with-half notes. A man cuts a banknote in two,

Margin, a covering deposit with a broker, accompanied by instructions as to prices that are not to be exceeded.

Maritime Lien, a claim for salvage, damages, wages, or payments made in respect of any maritime adventure and constituting a direct charge upon the

vessel enforceable by arrest and sale.

Market Owart, in open market, i.e., a place sectioned by law or custom for selling and buying

sanctioned by law of custom for selling and buying and open to the public.

Mate's Receipt, the receipt given by the mate of a ship when goods are brought slongside for loading.

Memorandum of Association, the document which contains particulars of the specific objects for which a company is established, and covering the whole scope of operations, beyond which it is not legal

whole steps to go.

Estailing Glause, a clause in a marine insurance policy, specifying the non-liability of the underwriters for loss caused by ordinary wear and tear.

Estric System. (See Office Compendium.)

Eint Par of Exchange, the weight of gold or

silver in a coin of one country in comparison with that of another country's coin.

Mint Price of Bullion indicates the number of

mint Frice of Bullion indicates the number of colus into which a given weight of bullion is divided.

Mixed Gurrangy, a currency parily of coins of the precious metals and parily of convertible paper, but both must be of legal tender quality.

Mixed Policy is a marine insurance policy combining time and distance conditions—a voyage and a period.

Monometallism, the system of a single metal standard of value in a national currency, such as the d standard obtaining in England.

Month. The term month in commercial matters

means a calendar month, unless otherwise specified.

Mortgage, a legal document whereby one who borrows money conveys his right to certain property to the lender as security for the repayment of the sum advanced, together with interest at a rate specified in the deed. The norrower is called the mortgagor, the lied teed. I no rigage. A mortgage may be on free-hold, leasehold, copyhold, or personal property. The most usual kind of mortgage is a mortgage of real estate, and it takes the form of an absolute conveyance estate, and it takes the form of an absolute conveyance of the property constituting the security; but, for the protection of the mortgagor the deed contains a provise of redemption, to the effect that if principal and interest be repaid on a certain date (usually six months after the execution of the mortgage) all claim of the mortgages on the property becomes extinguished. As a rule, however, mortgages are arranged to extend over indefinite periods, and after the expiration of the time prescribed in the provisor redemption, the mortgagor's legal right of redemption ceases. Then, according to the strict legal construction, the mortgage becomes absolute owner of the ceases. Then, according to the strict legal construction, the mortgages becomes absolute owner of the
property; but the mortgagor has still what is called his
equity of redemption, which entitles him to continue in
possession of the property, and to demand the legal
retransfer of it to himself on payment of the sum
borrowed and interest. It is customary for mortgages
to continue for a number of years (sometimes there is a
reculse true fixed), and so long as the interest is
regularly paid by the mortgagor, the mortgages
takes no further steps. If there be failure in psypent of interest, the mortgage gives notice to
the mortgagor that unless the default be made
good within three or six months he will proceed to
exercise the powers of sale or foreclosure given to him
by the mortgage, or enter into possession of the proexercise the powers of sale or foreclosure given to him by the mortgage, or enter into possession of the property, but in carrying out any of these powers he can only reglise to the extent of sansiying his claim for principal, interest, and expenses. Whatever surplus remains beyond this he must hand over to the mortgage. The same process and conditions/bottain when the mortgagee (even if there have been no default in the payment of integest) desires to recall the mortgage sum advanced, and gives the requisite notice. When a mortgagee fails to obtain repayment as stipulated, the most usual course is to act on his power of sale and sell the property mortgaged. To foreclose and become absolute owner, he must obtain a decree of the Court of Chantery, but such proceedings are baset by difficulties and are not frequently exorted to; nor is to often that a mortgage takes steps to enter into possescumcuntes and are not trequently Feorted to; no its often that a mortgaged takes steps to enter into possession of the mortgaged property, having to obtain leave of the Court, and being practically only in the position of a receiver, accountable for the management of the property, collection of rents, etc. A mortgage of leaseholds is by assignment or sub-lease, and of copyholds by what is called conditional surrender.

Within I Mig. Interance, a system of the in-

Mutual Life Insurance, a system of life in-surance carried on by members of a company having

no shareholders and no subscribed capital, and dividing the whole of its profits amongst its policy-holders.

**Manne Day, the second day of the Stock Exchange settlement.** Also called the "Ticket Day."

Navy Bills, bills of exchange drawn by naval officers against pay falling due.

Negotlable Instruments and Negotlable

Paper, such bills, notes, cheques, warrants, bonds, and other documents as are by common usage dealt with as equivalents of coin, and the rights in which pass to the persons to whom they are paid.

Net or Nett Weight, actual weight of goods after every allowance has been made for package,

Nominal Exchange, the state of the exchanges which depends upon the moneys of the countries, and on the current demand for them at any green time. Nominal Partner, one who permits his name to be tsed in the title of a business although having no actual interest in the concern, as in the case of one who

actual interest in the concern, as in the case of one who has retired from it.

Nominal Price, an approximate or designated price of issue of shares, or price quoted in respect of goods and securities in which dealings are infrequent.

Notaries are generally lawyers appointed to certify signatures to documents intended for use abroad, and to put marks of protest on bills of exchange and promissory notes, foreign and mland, which have not been met.

Notice of Dishonour, the notice which the holder of a bill of exchange must give to drawer and negotiators when the bill is refused payment.

Noting a Bill, a notary's memorandum written upon the face of or attached to a returned bill, after

being presented by him a second time and not park.

Not Negotiable. When a cheque or bill has these words written across its face they do not limit the transfer of it from one to another, but, in the case of a transferor not having a good title to the document, the transferor is merely in the same position as the trans-feror, and cannot go back upon the original drawer for

Movation is the act of replacing a debtor by another who assumes the responsibility, to which there must be the assent of the original debtor and creditor as well as of the substitute.

Nudum Pactum, an agreement without consideration. Not capable of being sued upon except under seal.

Obscuration, a customs term specifying the difference between the actual and the indicated strength of spirits

Official Assignee of the Stock Exchange, a member of the house appointed to wind up the estate of a defaulting broker.

Official Broker, one appointed to buy or sell pecified securities in cases of non-delivery.

Official Receiver, a person appointed by the Board of Trade to carry out prescribed duties under the Bankruptcy Act, in connection with the winding up of bankrupts' estates, and having the powers of a trustee

in bankruptcy.

Official Referee, a High Court official appointed to deal with actions concerning disputed accounts.

Omnium Stock, stock capable of being divided

into proportionate parts of other stocks.

On Call. 4 loney lent, either repayable on demand

or at short notice.

On Demand, a term in general use to denote bills of sechange in which these world, has been written. They need no acceptance and are psyable on presentation.

One Man Company, a company in which all the shares, except those necessary for constituting a company, are held by one man, or in which one man is the moving spirit.

One Man Marks t, a term denoting a case of the

entire dealings in a certain class of shares being in the hands of one jobber.

Open Cheque, an uncrossed cheque payable on presentation to "bearer" or "order," as the case

Open Credit, credit given by a banker to a customer without guarantee or security. A letter or credit authorising payment of money to another person without condition also comes within the tagin "open

Open Policy, a marine insurance policy, the full amount of which is not declared until the value of the

or the property has been ascertained.

Open Sitp, a slip of paper initialled by the underwriter, having reference to the terms of an open policy,

which, lawing no stamp.

Option, a right granted to a person to buy or sell certain stock or shares at a specified price within a stated period or on an indicated day. (See Put and Put and Call.)

Ordinary Stock or Shares, such as have no special privilege or right attaching to them, but which receive dividends representing the profits after paying interest up preference shares and debentures and providing for reserve, etc.
Original Bill, the first of a duplicate or triplicate set of foreign bills. The term also applies to a bill which has been signounced before and orspined:

which has been discounted before endorsement.

Over-Capitalisation, the circumstance of a company having more capital to pay interest upon than it has power to earn, a result usually caused by too large a price having been paid for the taking over

of the husiness, or in promotion.

Overhead Price, a price including extras.

Over-Tonnage denotes the providing of a greater tomage of ships than is required for the

freight to be shipped.

Par, a price that is equivalent to nominal value.
Par of Exchange, the equalising of exchange as between the currency of one country and that or another

another.

Partings, or Parting Bullion, mixtures or gold and silver, called a gold parting when gold predominates, and a silver parting when the reverse.

Partners are persons associated in the carrying on of a trade, industry, or business lountly; and may be active, as when employing themselves in the conduct of the enterprise; sleeping, when providing capital but taking no active part; or nonimal, when could latent these cames. only lending their name.

Partnership, an association of not more than twenty and not fewer that two persons for trading purposes, whose interests, relationship, and responsi-bilities are usually defined in a deed of partnership. Passive Bonds and Shares, bonds on which no interest is paid but which confer some future-accruing advantage on the holder.

Patent Laws. It was usual in England, up to Jamery sst, 1905, for the Patent Office to indiscriminately accept fees for registering and granting "protection" to "inventions" Now the Patent Office tection to "inventions". Now the Fatent Office examines its records before issuing its papers. Each complete specification is subjected to a rigorous examination to discover whether the idea infringes any British patent granted within the preceding fifty years. If the result of the examination is unsatifactory the applicant is acked to amend his specification. If he reluses, the Comptroller, after a learning, non. If he remises, the Comptroller, after a hearing, nay compel limi to put in a reference to prior specifications, by way of notice to the public, the applicant having the night, however, of appeal to the law officer—the Solicitor-General. The issue of a patent does not prove its vuldity. As before, any person who thinks his patent anticipates that of the applicant may oppose the grant of the latter by filing a certain form and paying the requisite fee of ros. Evidence will then be taken by the Comptroller, the Evidence will then be taken by the Comptroller, the final decision as to validity remaining, as before, with the law courts. The law as to British patents and designs was consolidated by an Act of 1907, which placed a check on the indiscriminate taking out on patents in this country by foreigners, and provided better safeguards and facilities than had previously existed. Over 30,000 applications for British patents are made annually, but less than half the number are granted as a rule. granted as a rule.

Pawmbroking originated in Italy in the 15th century, and extended to this country some years later, the Bishop of Winchester being responsible for its introduction, though he did not charge interest. In the 15th century pawmbroking grew to be a regular business and was regulated by Acts of Parliament. A licence is required by every pawmbroker, for which he pays £7, vos. per annum, with an additional duty o £215a. If he deals in plate. The three balls which hange over the pawmbroker's shops are the ancient arms of Lombardy, the Louibards being the first money-lenders in Europe. (See Monts-de-Plate, General Information section.)

Pay Day, the day on which Stock Exchange settlements are concluded. Used also to denote the particular day of each month on which a firm pays its accounts.

Payee, the person or firm to whom a bill of

exchange, promissory note, or sum of money is made

payable.
Payer, one who pays a bill of exchange,

Paying-in Slip, a printed form in which particulars and details of a total amount are written when a customer pays a sum into a bank, indicating

how it is made up.

Payment Supra Protest, a payment made
after protest has been inade denying all or part
lability.

Par Capita, per head.

Parmit, a customs document of authorisation to remove dutable goods. Parsonal Property or Parsonalty, every-thing that is possessed apart from that which is freehold.

freehold.

Per Stirpes, by "stock, or stump, or root," a legal term denoting a succession of next-of-kin by simple right of representation, as grandchildren taking their parents' share under their grandtather's will.

Petitioning Creditor, one who files a petition in bankruptcy against a debtor.

in bankruptev against a debtor.

Placing Shares, the act of a broker or brokers in getting people to take up shares, usually referring to such as are placed in order to make up a sufficient number to secure quotation on the Stock Exchange Policy Holder, the possessor of a policy, whether the insured, or one to whom the policy has been

Policy Proof of Interest, an expression signifying that the underwriters will recognise the holder's interest in a policy on producing it, without calling for

Pool, the combining of several persons in one large operation in shares, on condition of equal sharing in

operation in Sharts, oil condution of equal sitting in profits or losses according to the amounts of their respective subscriptions.

Post Note, a lank note made payable to order. Such a note must be endorsed by the payer.

Post Obit Bond is a bond given for a land, undertaking to repay the lender the sum borrowed, with interest, after the decrease of another person from

whom he expects to receive money.

Pratique, a heence for a ship to trade in specified ports, provided the port she sails from is free from infectious disease.

Preference Bonds are such as are issued at a fixed rate of interest, and payable before dividends are

nxed rate of mercy, and payable before intractive and declared on ordinary shares.

Preference Shares and Preference Stock are shares or stock entitled to their fixed dividend before any division of profits can be made amongst the holders of ordinary shares or stock. P Preferential rights

Preferential Payments in Bankruptcy are such as have to be made before the claims of ordinary such as have to be made before the claims of ordinary creditors are considered, and include rates and taxes which may have become payable within twelve months preceding the date of the receiving order; wages or salaries of clerks or servants for services during the preceding four months, and not exceeding in any one case 4,50; wages of labourers or work for services during the preceding two months, and not exceeding in any one case 4,55.

Prefude, Without. When statements are made or letters written with the words "without pre-indice" affixed, they cannot be afterwards used as evidence should lurgation follow.

Premum has several meanings: (1) a prescribed

evidence sonain ingation ionov.

Premium has several meanings: (i) a prescribed periodical (usually annual) payment on a policy of insurance; (2) the advance in price of stock or shares above par value; (3) a bounty; (4) a payment in respect of a loan, in addition to or in place of increst.

Pre-Preference Socurities are issues that take preference even of preference ones, but are seldom, resorted to.

Present Value, a term used in discounting, and referring to a simple deduction of interest from the face value of a bill; the determination of the present value of a deferred payment with compound interest; or the calculation of the present value of a series of payments due at regular intervals.

Price Current, a list of goods and merchandise

with prices and statements, duties, drawbacks, etc., if

ary incises and statements, duties, drawbacks, etc., in any incises and statements and statement of the receive specified bonuled goods for exportation. The term is now obsolete. (See Shipping Sill and Note.)

Primage, a percentage added to the freight and paid to the shipowner to cover commission for Charger-

paid to the shipowner to cover commission for chargering, etc.

Primage and Average Accustomed, an expression often introduced into a bill of ladding and refurring to charges for covering cost of wharfage, lights, photage, &c. There is no separate charge now for average, that being included in primage.

Prima Entry, the first entry of the estimated value of a ship's cargo, on which duty has to be levied, before the vessel can begin discharging.

Private Arrangement, a deed whereby a debtor and his creditors enter into an agreement for the payment and acceptance of a composition in satisfaction of all claims.

Private Company, a small limited company privately formed by members who subscribe the whole

privately formed by members who subscribe the whole of the capital among themselves.

Producer, one who manufactures goods, or one who grows and cultivates the produce of the ground.

Production, a term used to denote a thing produced—that is, made, written, composed, or manufactured; or, in its ordinary commercial significance, the bringing forward and offering of an article for sale.

sale.

Productive Labour is divided into three somewhat widely generalised classes: Prairies, such as minister to human gratification and enjoyment, but can not be stored—as, for instance, the services of across singers, &c.; protective, such as the labour of soldiers, policemen, judges, &c.; and accumulative, those services which produce material objects capable of being stored or exchanged, as those of the mechanic, the factory worker, and so on.

Profit the surface remaining after all expenses

Profit, the surplus remaining after all expenses

Profit, the surplus remaining after all expenses attending production and sale have been deducted.

Promissory Note, an unconditional swritten promise to pay a specified sum on a specified date, to, or to the order of, a specified person.

Promoter, one who employs himself in the preliminary work necessary to the flotation of a limited.

company, and whose remuneration must be stated in

the prospectus,
Proof of Debt in Bankruptoy, a creditor's
affidant or declaration, setting forth particulars of debt

owing to him by a bankrupt.

Property is of two classes, corporeal, as land, buildings, &c., and incorporeal, as the rights in things not represented by material objects.

Prohibitions and Restrictions, a term applying to articles which are either prohibited altogether from being exported or imported, or are placed under

special conditions.

Proprietary Company, a parent company holding lands or mining rights, parts of which it sells or

leases to other

leases to others.

Prospectus, a document containing a statement of the property, histiness, undertaking, enterptise, or project for the development or working of which an appeal is made to the public to subscribe for shares in the company taking the property over. The provisions with regard to labe statement or concealment of facts with regard to laise statement or concealment of facts are exceedingly struct, and persons who have been induced by insistatements in a prospectus to take shares can proceed against its issuers for damages.

Procest, a notification by a notary public of an unaccepted or unpaid foreign bill of exchange, which protest must be effected at the place of dishonour, and

contain a copy of the bill, a statement of the parties to

it, and other particulars.

it, and other particulars.

PPOSY, one who acts for another, or the written authorisation for such action. A proxy requires id. stamp, but for proxies in bankruptcy or winding-up proceedings there is stamp exemption.

Public Company, a limited company whose capital consists of shares publicly subscribed, such shares being saleable by any shareholder without the consent of the other shareholders.

Put, or "put option," is the right to sell certain stock at a price named on a specified day, in considera-

stock at a price named on a specimed asy, in considera-tion of a premium paid.

Put and Call, equivalent to double option.

Put of More, a "put option," with the additional privilege of selling double the quantity specified.

Pyx. Trial of the, is a trial by a jury of experts chagen from the freemen of the Goldsmiths' Company chosen from the freemen of the Goldsmiths' Company of the City of London, of the gold and silver coins of the City of London, of the gold and silver coins manufactured at the Royal Mint, and in recent years at certain Colonial Mints, during the preceding twelve months. This annual ceremony takes place in accordance with the provisions of the Coinage Act of 1870. The standard pieces of gold and silver used tormerly to be kept in the ancient Chapel or Chamber of the Pyx at Westminster Abbey, under the joint charge of the Lords of the Tressury and the Comptroller-General. (See also Mint.)

General. (See also MIRL.)
Quarantine is a term used to denote the period for which a vessel, on which there is infectious disease, is detained in isolation until medically certified free from taint. Originally this period was forty days; bence the term; but now the detention and prohibition of intercourse with the shore only lasts until a clean bill of health can be given.
Quarter Days in England are Lady Day (25th Marchi Midsummer Day (25th June). Michaelmas Day

March, Midsummer Day (24th June), Michaelmas Day (Sept. 29), and Christmas Day (Dec. 25). In Scotland the legal terms are Whitsun (May 15), Martinmas (Nov. 11), and the conventional terms Candlemas (Nov. 11), and the conventional terms Candiems Feb. 2), and Lammas (Aug. 1) make up the quarter days. Quit-Rent, rent paid in respect of copyhold property to a lord of manor in lieu of services. Quintal, a weight that varies in different countries. In England and the United States it is noo lbs.; in France, roo kilos, equal to about 2204 lbs. avoirdupois.

Quorum, a term indicating the number of members of any body or company necessary to be present at any meeting or commission before business can be transacted. Forty members constitute a quorum in the House of Commons.

Rack Rent, rent of the full yearly value of the property held. A term generally used to denote excessive rent.

Racking, a term used in the wine and spirit trade when liquors or wine are transferred from certain casks to other casks, or when drawn off from the lees. . cases to other cases, or when drawn on from the lees, a Railway Advioe, a document sent by a railway company to a consigue of yoods intinating that goods are awaiting his orders at a specified station, and that demurrage will be chargeable after a date named. Rašeable Value, the value of property as the same is assessed in the rate books of the local cuthori-ties, representing the ordurary rent value less the out-

goings in connection with the property.

Raw Maserials are products before they have come into process of manufacture, such as wool,

Real Estate or Realty, includes all freehold property. Leaseholds, however long the term, are personal estate.

Real Securities, deeds of mortgage of real estate. Realisation is a conversion into stual cash of what was previously contingent or doubtful, a process that may result in gain or loss on original cost according

to the state of the market.

Reasonable Hours, a term often used in commercial documents in regard to applications, present-ments, etc., and mainly to be decided by commercial custom. Thus, from 9 a.iu. to 6 p.m. would be reason-able hours in any ordinary business.

Receipt is a written acknowledgment of money paid, and since 1783 has in this country been liable to stamp duty, at first according to the amount involved, stamp duty, at 1953 a uniform stamp of one penny for any sum of £2 or more has been sufficient. A special receipt stamp was necessary before June 185, 1881, but since that date ordinary penny postage stamps have

Beesiver, one appointed to control an estate or property pending dispute or latigation.

Beesiving Notes, documents sinced by shippers requesting the chief officer of a ship to receive on board specified goods.

Receiving Order, the order of a court of benk-ruptcy, on petition presented by a debtor or one of his creditors, placing the debtor's estate in the hands of the official receiver, and barring further legal pro-ceedings against the debtor by creditors. Whether the debtof be declared bankrupt or not depends upon the decision of the creditors after the debtor's public

Recognizance, an acknowledgment of indebtedness to the Crown, should a certain specified act not be duly performed; for example, a recognizance in respect of a prisoner liberated on ball, whose failure to respect of a prisoner interfact of Dat, whose failure to appear on the day appointed for trial, would render the recognizance realisable

Redemption of Mortgage, paying off principal sum, and interest due on a mortgage, and thereby

redeening the charge.

Re-draft, a new bill of exchange in place of one that has been protested, with costs added to the original amount.

Re-exchange, loss incurred on a dishonoured

foreign bill.

Re-exportation, the exportation of imported

Reducing into Possession, the conversion of a thing in which one has the right of action into actual possession, as when the holder of a bill of sale enforces his security.

Reference, a person or firm to whom inquiries may be addiessed regarding the character, ability, or position of the our guing the reference.

Registered Bonds are such as for security against robbery or loss are registered in the holders' names in the books of the company or State issuing

Registered Stock is stock registered in the same manner as mentioned in regard to Registered Bonds above. Holders of such are given a certificate

Re-insure is to take out an additional insurance on the same risk, and occurs when an insurer considers that he lass incurred too great a hazard and re-insures with others, so as, in case of loss, the liability will be more widely distributed. Re-insuring, however, does not lighten the insurer's responsibility for the whole

amount of the original insurance.

Remedy, the technical term for the extreme limit of allowance the Mint will allow from the fixed coinage standard.

Renewal of a Bill is frequently resorted to when an acceptor finds himself unable to met it when it falls due. It sumply amounts to an extension of time, but cannot be effected without the consent of all the parties to the original bill

Rentes, for ign Government Funds—chiefly those of France, Austria, and Italy—on which annuities are paid, as with English Consols.

Replevin, the name of an action brought by a

tenant for recovery of goods unlawfully distrained

Reputed Ownership is a term in use regarding goods and property in the possession of a bankrupt, and applies to everything under his control at the time of his bankruptcy. All such property is presumed to belong to the bankrupt and to be available for realisation and distribution, unless the contrary is proved, and the property is proved in the property of the property importer when requiring the removal of dutiable goods

from one warehouse to another, or (in the case of perishable goods) from shipboard before clearance.

Reserve, a fund set apart by a company, firm, or institution, over and above its capital, to provide for contingencies.

contingencies.

Reserve Capital, such portion of a limited company's unpaid capital as can only be called up for winding-up purposes.

Reserve Price, the lowest price at auction or otherwise at which specified goods will be sold.

Respondentia, a legal term applying to maritime contracts, anortgaging ships and their cargoes for money advanced; differing from a bottomry bond in the

extent of the pledge.

Resolution, any proposal made at a meeting and put to the vote. An ordinary resolution of a limited

company is decided by a bare majority; a special or extraordinary resolution requires a majority of three-fourths to carry it. The "special" resolution must be subsequently confirmed by a mere majority, but no confirmation is necessary for an "extraordinary" re-

Solution.

Rest, a Bank of England term applied to its weekly return, and signifying the surplus of assets over liabilities (including capital).

Restraint of Trade, a term applying to an arrangement entered into when a business is sold, prowithin a specified radius or during a given time.

Anything in the nature of unreasonable restraint cannot

Bestrictive Endorsement is one which destroys the negotiability of a bill of exchange. Retainer, the engagement, by request and payment of retaining fee, of the services of a counsel to represent one of the parties to an action, inquiry, trial, hearing, or arbitration. Another meaning of the word refers to the right of an executor to retam what may be

retests to the right of an executor to retain what may co-owing to him personally out of the testator's estate from moneys coming into his hands as executor. Retaine, a French term for the charge made to importers of gold and silver for the conversion of bullon into com at certain mints, [See Beigglor-

Retiring a Bill is to withdraw it from circulation either by buying it up and retaining it until maturity or at once cancelling it, or by the acceptor meeting it in the usual way when due. In the latter case it is dis-

Revenue, in its ordinary application refers to income of any kind; more strictly, however, it is a word denoting the income yielded to a State from taxes and

Revenue Account, the account of a firm or company showing the result of its operations and what profit or loss it has made. It is apart from the capital

Reversion is a right to property or benefit, the enjoyment of which does not come into operation until the happening of a certain event or the expiration of a certain period.

Reversionary Interest, a term generally applied to a deferred interest in money or personal

property.

Rider, any separate addition to a document, or addition to a resolution or verdict, fastened to the

addition to a resolution or verdict, fastened to the original.

**Eleging the Market is a Stock Exchange practice sometimes resorted to whereby persons by secret purchases of a particular class of stocks or shares force an artificial public demand, and consequent rise of price. Then they sell.

**Right of Action is the right, obtained by argument or purchase, of claiming or suing for a debt or obligation due to another.

**Ring.** a combination formed by a group of speculators to obtain control of the operations in a certain commodity, and by creating scarcity to run up prices for their own profitable realisation. (See Gorner.)

Gorner.)

Royalty has several meanings: (x) percentages or dues payable to landowners for mining rights; (a) surposed for the use of a patent; (3), percentages paid to an author by a publisher on the sales of a book.

Rolling Stook, everything used on railways for the conveyance of passengers or the transport of goods, and including loromotives, electric

motor cars, carriages, wagons, etc.

Rummaging a Ship is the search made by
Customs officers for concealed dutiable or prohibited

goods.

Bunner, one who touts for sharebroking business and is remunerated by a share of the profits on what's he introduces, while also liable to bear a share of any losses made.

Running Days, consecutive days, including Sundays and holidays, and used in regard to a ship's

running.

Run with the Land, any condition of tenancy or leaseholding that is special to a property let or

leased and for which continuous fulfilment has been provided.

Sagging Market is one in which prices show a marked and continuous falling tendency.
Sale for the Coming Out is an early sale of shares in a company prior to the issue of shares

Sale or Return, a selling of goods to a retailer on condition that if he fail to re-sell them within a given time the seller will take them back and refund the

oney paid for them or make an equivalent allowance.

Bale Warrant, a document given with a weight

note, in the case of goods sold on payment of deposit, conditionally on an early discharge of the balance.

Balwage, compensation given in respect of property saved from the perils of the sea, when the ship containing it has had to abandon it, or it has been

sing commaning it has head to abandon it, or it has been lost. Salvage compensation varies from one-tenth to one-half the value of the rescued property Salvage Loss, a term used in respect of a partial marine insurance loss, being the value of the goods recovered deducted from the full amount of insurance.

Sampling Orders are orders addressed to the superintendent of a dock or other warehouse, authorising the giving of specified samples to the person named.

Sans Recours, "without recourse," a term which when written on a bill of exchange by an endorser frees him from liability on the document.

Schedule, a list, summary, index, or inventory. It may be either supplementary or explanatory.

Scrip, a certificate of shares in a Government loan,

company, or corporation, a contraction of "subscrip-

Sorivener, one who lends or invests money for clients at interest, and is remunerated by commission or procuration fees.

Scrutineer, a person appointed to count the votes at a general meeting of the members of a company.

Sorutiny, an examination of voting papers.

Searchers are Customs officers entrusted with the duty of searching and examining vessels on arrival or departure for goods liable to duties.

Search Warrant, a document issued by a magis-

trate authorising a search in any place for stolen or

trate authorising a search in any place for stoien or concealed property.

Seaworthy, the condition of a ship when it is in every respect fitted for undertaking a voyage. There is an implied warrant of seaworthiness in a marine insurance policy, and should the vessel turn out to have been instituted at starting, the underwiters have their remedy against the insured.

Second Class Paper, bills, notes, and other securities for the stiffsaction of which persons or firms of only moderate standing are responsibles.

Sacured Creditor, a creditor holding security

Becured Creditor, a creditor holding security the realisation of which would satisfy his claim; what it realises beyond that must be handed over to the debtor's estate. In such a case the creditor is fully secured. In case of a partially secured creditor, he may realise on the security as far as it will go, and prove on the estate

the security as far as it will go, and prove on the estate for the balance.

Socurities are documents entitling the holder to specified realisable rights in Lad, money, stocks, shares, bonds, mortgages, etc., in the event of loans, payments, or advances for which they were given remaining undschanged.

Salighiorage, a Mint charge for converting bullion into cone. The segmorage on gold is rid, per troy ounce, while on silver there is no charge for coming.

Seisin, actual possession of real estate.

Seizure Notes are notes made out by a Customs officer on discovering and taking possession of goods fraudulently obtained or hearing fraudulent trademarks, and left with the goods after they have been placed in a Customs warehouse.

Bellers Gven; a market condition when sellers are

Sellers Uyer, a market condition when seuers at all. Sellling Out, a Stock Exchange term applying to the case of a buyer of stock for the account falling to pay for it, when the stock is officially sold and the transaction closed, any loss that may be incurred being charged against the defaulter.

Bequestration is a legal process putting a sheriff or other officer of court in possession of property or goods until a dispute or claim in respect thereof has been disposed of.

Sequestrator, the person appointed to take possequestrator, the person appointed to take possexion under a sequestration order.

Set-Off, the placing of a debt due against a debt
owing, wholly or partially.

Settlement may mean: (i) the discharge of a
debt or claim; (a) the settling of a sum of uneney on a
woman on lier marriage as a provision for ierisof and
children; and (a) the Stock Exchange fortnightly
settling period, viz., the last three days of the account,
as to general stocks and shares, and in the mining
market four days.

Settling Day, the last day of the Stock Exchange

Bettling Day, the last day of the Stock Exchange

Sharebrokers are persons engaged in the business of buying and sciling shares and stocks for clients. Share Certificate, a document issued by a public company to a shareholder, certifying the number of

the shares held, and the sum paid up on them.

Bhare Warrant, a document certifying that the bearer owns the shares specified and that they are fully paid up. It is a negotiable instrument, with outpons attached payable at the dates named to whomsoever may present them. When shares take this form the share-

present them. When shares take this form the share-holder's name does not appear on the list of shareholders. **Bhip Brokers** are persons engaged in promoting business between shipowners and traders.

Ship Letter, a letter despatched by a private vessel and not by the usual postal channels. Shipping Articles, the contract between a ship-

master and his scamen setting forth the terms and conditions of service.

Shipping Bills, Customs or traders' documents containing particulars of goods placed on shiphoard.

Shipping Cards, cards issued by shipbrokers giving dates of salings, approximate dates of arrivals,

and other information of use to shippers. Shipping Note, delivery or receipt note concern-ing goods sent for loading.

ing goods sent for leading.

Bhiaping Weight, the declared weight of goods
put on shipboard.

Pagiatry. This is issued. Ship's Certificate of Registry. This is issued by the registra after the completion of the building of a ship, and sets forth the name, build, tonnage and other particulars.

Ship's Clearance Inwards, the Customs certificate that all dues and demands in respect of a

home-arriving ship have been satisfied.

Ship's Clearance Outwards, the Customs

certificate that all dues and demands in respect of an outgoing vessel have been satisfied.

Ship's Manifest, is a ship's paper, and contains full details of the vessel's cargo and the ports for which she is bound.

she is bound.

Ship's Pappers, such as must go with the slip, comprise the Cartificate of Registry, the Contract with the seamen, Charter Party or Bills of Lading, Manfest, Official Log, and Bill of Health.

Ship's Passport, a State document, given in time of war to the master of a neutral ship, containing all particulars necessary to show the vessel's nationality, ownership, equipment, cargo, etc.

Ship's Protest, a declaration, made before a neutral strip, gorth particular of loss or dames to

notary, setting forth particulars of loss or damage to ship or cargo, a document necessary for production to underwriters before adjustment of c um.

Ship's Report, a form which every master of a ship is required to fill up within twenty-tour hours of arriving in port, setting forth all particulars as to vessel,

crew, cargo, etc.
Ship's Store Bond, a document give hy a shipowner or captain in respect of dutable articles to be used as store s during a voyage.

Ship's Stores, articles necessary for the provision-ing of a ship; as a Custom term, however, it refers only to articles which would be chargeable with duty if consumed on land.

Shore Bills are bills of exchange having less than

ten days to run

Short Exchange, rates quoted for bilis payable on sight or within a few days after.

Short Loans, advances for short specified periods at a fixed rate of interest.

Short of Stock, a phrase, originating in America, to dengte a selling of what is not possessed, and answering to "bearing" operations.

Short Shipment, a term applied to goods that.

through accident or want of space, are unable to be taken on board.

Shut for Dividend refers to the period when the transfer books of the public companies are closed for the making out of dividend warrants. No transfer can be registered during this period.

Sight Bills are such as are payable at sight, with-

out allowance of days of grace.

Sighting a Bill, a bill is sighted when presented

Signting a Sill, a bill is signted when presented to the person on whom it is drawn.

In the principle of the principle of the person on whom it is drawn.

Walpolo in 17,66 with the object of redeeming the National Debt. A further Sinking Fund was introduced by Put in 1798 that ultimately proved to be founded on a fallacious basts. In 1888 the Sinking Fund was restricted to one-fourth of the actual surplus Fund was restricted to one-fourth of the actual surplus revenue, and a new Sinking Find was formed in 1875 by which a permanent annual charge to be sanctioned by Parliament from time to time was established, the yearly charge from that date being fixed at 28 millions sterlute

**Skipping,** a Customs term used in taring, and referring to the temporary transfer of atticles from one package to another

Slander of Title or of Goods, anything uttered in denial of ownership or depreciation of goods, whereby a man surfers loss of sales or custom.

Sliding Scale, a scale of wages regulated by appreciation or depreciation in the market value of the products of labour.

Slinging, the act of putting chains round goods lying alongside a ship for convenience of holsting. The shipper bears the charge for this

I ne snipper hears the charge for this Silp, a manne husrance term referring to a supnote of particulars required by an underwriter before undertaking to insure, and which he initialist accepting. Sola, signifying "this only," is a term applied to a document of which only like original exists. Solveney, the ability to discharge all debts and obligations in full.

Specie, metallic money, com, in contradistruction to instruments of credit, such as bills and notes.

Special Commerce, a term including unports for home consumption and exports which mainly represent the products of the countries from which they are exported.

Special Damage is damage sustained by wrongful act and for which damages beyond general damages may be claimed

Special Endorsement on a bill of exchange is an endorsement specifying the name of the person to whom the indorser transfers the document

Special Settlement is the day fixed for first settlement upon which stock is first admitted to quota-Spacie Point, the point above or below the Mint par of exchange it is found more probable to pay in

specie than bills.

Specification, a detailed list of work to be done or goods to be supplied in the carrying out of an order or contract

Specific Performance, the express carrying out of the terms specified in a contract. Where damages supply an adequate remedy, however, the courts seldom enforce specific performance.

Spits, instruments of wood, iron, or steel, used by

Customs officers in examining goods for dutiable articles. Spot Goods are such as are ready for immediate

Squeezing the Bears, a phrase denoting the condition to which "bears" are reduced when buyers to whom they have contracted for delivery are them-selves the holders of the available stock, and by this means compel the "bears" to purchase from them at an advanced price.

Stag, one who buys shares in a new company with the view of operating for premium only, selling as soon as premium point is reached.

Stale Cheque, a cheque that is not presented for payment within a reasonable period. Bankers make a rule of not cashing cheques six souths or more old. Standard Gold is composed of twenty-Moo parts of pure gold and two parts of copper alloy. Standard Silver consists of thirty-seven parts of pure silver and three parts of copper alloy. Standard Money is com whose value in exchange depends upon the intrinsic value of the metal it contains.

Standarding is an arithmetical calculation for ascertaning the value of bulkon, that is converting the gross weight of gold or silver that is not of the standard late its equivalent in weight of standard metal.

into its equivalent in weight of standard metal.

Staple, meaning that which is appointed, was an old English term used to designate the commodities traded in by privileged mer.liants and on which customs were levied. The chief staples were wolk skins, leather, tin, lead, and money. Acts were passed regulating and varying the staple towns from time to time.

State Notes are the notes of a State or Government, undertaking to pay bearer on demand the

amount specified in specie.

Statute Barred, a commercial term denoting a debt has passed beyond the limit within which it can

be legally recovered.

Statutory Meeting of shareholders in a company is a general meeting which it is compulsory to hold within not less than a month and not more than three months from the time of starting business,

Stay of Execution, an order of court suspending execution on a judgment obtained, until an appeal which has been moved for has been heard.

Sterling Bonds are such as are payable in British

Stock represents into a money lasts of value, and chief security of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of the stock of th

into fractional parts. Stock Exchange, a building in which the opera-tions of buying and selling stocks and sharevare carried on. The London Stock Exchange is controlled by a committee of thirty members. There are two classes committee in thry memors. There are two cases of members—jubbers and brokers; jubbers dealing in particular groups of stocks, and brokers who operate generally between the jubble and the jubbers. The annual subscription is forty guineas; and to become a member a jumn must have screed as clerk to a member and member are member and member and members. fortwoorfouryears Itadminedtomembership after two

years he pave 500 guineas, if after four years 250 guineas, Stock Receipt, a receipt of registered stock given to the purchaser by the seller on payment of the consideration. On production of this receipt the

bruchaser's name is registered as owner.

Stopping a Chaque or Note, an act resorted to when a cheque or note has been lost or stolen. The bank is notified of the loss or theft, and in the case of a cheque the banker may refuse to cash it; but as a regards a note the banker can only explain matters to anyone presenting it for cashing; he cannot refine payment if most cell non, although the presenter may perhaps be arrested immediately afterwards. **Stop Order** is an American Stock Faciliage term

referring to an order to a broker to sell stocks or shares on reaching a ce-tain figure, the price to be made by a third party, and not the broker himself. Should a purchaser not be forthcoming, the broker is at liberty

purchaser not be forthcoming, the broker is at interty to sell at the next lower price.

Stoppage in Transitiva, a seller's right to copy goods on the way to delivery on discovering after a despatch that the purchaser is not solvent.

Storea, a maximum term referring to provisions, etc., for the victualling of a ship. Also used to denote any large retail e-abilishment, or goods in bulk generally.

Stownes, payments for stowing a vessel.

Strike is a combined withdrawal from work of a body of workers, for the purpose of obtaining higher wages, or securing some other demand.

Subpoana. "under a penalty," a writ of court commanding the attendance of a witness at a specified time and place. It is called a subpoana at tastiff candum when requiring verbal testimony only, and a subpoana dues tecum when requiring the production of documents.

Subsidy, money contributed by a State, Government, institution, or person, in behalf of any special

Sufferance Wharf, a 'icensed wharf upon which dutable goods may be landed and stored until the duty is paid.

Sum Payable, the amount payable on a cheque, bill, promissory note, or draft, and written out in full in the body of the document. If by error the sum written in figures in another part does not tally with the amount as written out in full, the latter will be deemed correct

Surrender Value, the value of a life insurance burrender Faite, the value of a me insurance policy at any given time when the person insured because of inability to continue paying premiums, or for other cause, desires a lump som to be paid to him to consideration of what he has already paid and of his giving up the policy.

giving up the policy.

Suspanse Account, an account of transactions which because of death, lack of information, or other cause, it is impossible to enter in the books in the regular way, and they have to be held in suspense.

Suspension of Payment is when traders, frue, or companies, unable to cope with their labilities, decide to cease paying further debts, and announce the fact to their creditors. After this step the whole of the assets become available for the whole of the creditors and the exist is wound un. of the creditors and the estate is wound up,

Take In, to olvan backwardation, erson having bought more shares han he cantake up in the setting day gets someone to rehere him of a portion of them.

Taking Up a Bill is discharging it when it falls

The acceptor has the first responsibility, and if failing him, it is taken up by an indorser, the latter can sue the other parties previously liable on the bill

Tale Quale, a grant trade term, denoting that goods sold are equal to sample but that any loss by dumage during transportation must be the concern of the buyer.

Talon is the last portion of a hearer-bond coupon sheet, containing the intimation that on presentation a fresh sheet of coupons will be exchanged for it.

Tape Prices are the latest prices as recorded on the "tapes" of the telegraph instruments at various places, as supplied by the authority of the Stock Exchange,

Tare is the deduction made in respect of boxes

Tars is the deduction made in respect of boxel cases, or other things need in packing goods, leaving only the actual weight of the goods to be paid for the term is also applied to any last to be paid for the term is also applied to any last of charres.

Telegraph Restante, a direction on a telegran intimating that it has to remain at the office where received until called for.

Telegraphio Transfers are messages author ising the transfer of amounts specified from one person to another by process of debit and creditenties by bankers, and much resorted to in transfers to the same terms of the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same

be usued for a greater amount than \$40. He tenant has himself put up, and are removable by him at the end of his tenancy, unless they are of such a nature that they cannot be detached without injury to the landlord's

Tender is an offer to supply certain things, perform certain acts, or pay a specified sum, but is not binding until accepted.

Tenement, a nouse occupied or capable of hains occupied by a tenant.

Terminal Charges, railway charges for loading, unloading, and otherwise handling goods entrusted to

unloading, and otherwise handling goods entrusted to them for transportation.

Third Glass Paper bills and other negotiable securities, the responsibility for payment of which belongs to persons or firms of inferior standing. Ticket, a document giving particulars of shares sold and given to a purchaser by his broker. Time Bargain, an agreement to buy or sell at a future date at a price fixed on entering into the agree-

Time Policy, 2 marine insurance in respect of goods in transit, and limited to a specified period.

Tolls are dock and canal charges for conveyance of goods, and are charged against the owners of the goods, not the ships.

goods, not the snips,

Tonnage as registered is based, not on the carrying capacity of a ship, but upon its cubical capacity,
one ton being reckoned for every roo cubic feet

Tonnage Dues, port charges, estimated on a ship's registered tonnage, payable on entering or leaving

Trade Bill, a bill of exchange in respect of which value in goods has been actually received by the drawee or acceptor.

Trade Fixtures, hke tenant's fixtures, are re-movable by a tenant at the expiration of his tenancy provided no damage be done to the landlord's property.

Trade Mark is a distinguishing design adopted by

a producer of goods to indicate his special manu-factures. All trade marks are required to be registered, factures. All trade marks are required to peregnate ea, and the forging or counterfeiting of a trade mark is a misdemeanour, punishable by fine or imprison-

a misdemeanour, punishable by fine or imprisonment.

Trade Unions, a term applied to organisations of workmen formed for nutual protection and assistance, and for the purpose of improving the conditions of their employment generally. Combinations among various classes of workmen have been formed from time to time since the Middle Ages, and trade unions may be regarded as the lineal descendants of the old craft guids which were suppressed in the time of Henry VIII. The growth of trades unionism was a feature of the latter half of the 19th century. After years of repression a Royal Commission on Trade Unions was appointed in 1867, and their report was followed by the passing of the Trade Union Act of 1871, which, as amended in 1876, now governs the legal position of all such combinations. Since 1866, a congress of delegates from trade unions has net annually for the purpose of discussing labour questions. There are over 1,100 Trade Unions in the United Kingdom with a total membership of about 2,000,000, over threo-fourths of which belong to the building, minng, and quarrying, metal, engineering, shipbuilding, sing, and extile trades. Usually a weekly contribution is fixed by the rules, but the insome of a trade union varies according to the needs of the organisation, weekly levies being made for special purposes.

Transfer, any document whereby one person

according to the needs of the organisation, weekly levies being made for special purposes.

Transfer, any document whereby one person transfers property, securities, or rights to another. On the Stock Exchange a transfer of shares or stock to propared by the feller's broker, signed by the seller, and handed over on payment of the consideration.

Transfer Days are those on which the Bauk of England enters transfers free of charge of Government

Sto. k Transire, a Customs document permitting a specified vessel or goods to pass or proceed, and serving for outward clearance. It is made out in

Treasure Trove, a legal term poplying to money, plate, or bullion found hidden in the earth, to eisewhere, and for which there is no owner. The treasure legally belongs to the Crown, but it is the practice to reward the finder with the full value of the

property on its being delivered up.

Treasury Bills are negotiable Government acknowledgments of loans, and may be for three, six,

or twelve mostlis.

Track, as allowance once common, for waste, carriage, etc., but no longer a custom of trade.

Trassa, a term applied, especially in America, to an arrangement whereby several companies are placed

under one control, mainly with a view to regulate the production and to beat down competition.

Trusk Dead, sadeed assigning or conveying property, debts, or securities to a trustee or trustees for the purposes set forth in such deed.

Turn of the Market, an expression referring to the difference between selling and buyung prices of stocks or shares. For example, if a jobber names two prices, one in the price he will buy at, the other his selling price, and the difference between the two is termed the "turn of the market."

Uberrims Fidel, an expression of mutual good faith by contracting parties.

faith by contracting parties.

Ullage, waste or leakage, in liquid contents of bottles, casks, &c.
Under Protest, a commercial term signifying a payment of money accompanied by a declaration that the demand is lilegal or in excess of what is justy due, and implying the need of a future rectification.

and unplying the need of a future rectification.

Underwiter, on who insures ships against loss (See Lloyd's and Marine Insurance.) Also one who, on a limited company's prospectus being issued, undertakes, if the public do not subscribe to the amount required, himself to take up shares sufficient to cayer the deficiency, on a specified commission basels.

Unclaimed Dividends are dividends which have not been claimed. In the case of Government Stock, after ten years they are transferred, along with the Stock itself, to the National Debt Commissioners.

Unfunded Debt or Floating Debt consists of Government short loam, payable at fixed dates. Unified Stook is stock which from being of different interest-bearing rates is amalganated into one of a uniform rate. The Consolidate Annutries are an

Unilateral Contract is a contract that is binding only on one party to it.

omy on one parry to it.

'Unseaworthy, the condition of a ship when from any cause, including inadequacy of crew or captain, it is unsafe to load it or send it on a voyage.

'Upset Price, the price that must be reached at auction to effect a sale. If there is no bid up to that amount the property is withdrawn.

'Universe the property is withdrawn.

Usury, a term originally used to denote any interest or premium paid for the loan of money, but afterwards or premium pand for the loan of money, but afterwards only employed to express an excessive rate of interest Many statutes have been passed in order to restrain the practice, and although gome of the old evils are continued by private arrangement, the law, as a rule-can afford protection against extortion. The Money-Lenders' Act of 1700 compels money-lenders to be registered, and gives a judge the power of reducing any rate of interest he may deem exorbitant Yendows' Shares are shares allotted to the vendor or vendors of a business on the same being converted more a linuted commany.

Verted into a limited company.

Venteure, a term used when goods are sent out to consignee on a general hazard of sale, for what can be got for them.

Warrant, (1) a magistrate's order for the arrest of a person or seizure of goods; (a) a receipt for goods deposited in a warehouse, and a negotiable document; (3) a document entitling the holder to certain money or property. (See **Dock Warrant**, **Share** or property. Warrant.)

Warrant of Attorney, a document given by a client to his attorney authorising him to appear for him in specified legal proceedings and act as directed, suffering Judgment if necessary.

Warranty, a guarantee that goods sold are of the quality stated, and giving the buyer the right of action for damages should the goods turn out inferior.

Watering Stock, a term denoting the issue of extra shares of nominal capital, without providing for interest being paid thereon, the object being to keep

interest being paid thereon, the object being to keep down the apparent rate of interest.

Way Bill, a list of passengers or goods carried by a public conteyance.

Weight Note, a dock company's certificate of weight and other particulars of goods unported.

Winding Up is the closing up of a company's concerns, which may be by reason of insolvency, or otherwise. (See Liquidation.)



By F. J. MORTIMER, F.R.P.S.

Editor of "The Amateur Photographer and Photographic News" and
"The Dictionary of Photography."

## Pears?

## Dictionary of Photography

Giving Particulars of Terms, Formulæ, and Processes employed in Photography. With numerous Practical Hints on Camera Work and its Applications.

By F. J. Mortimer, F.R.P.S.

Editor of "The Amateur Photographer and Photographic News," and "The Dictionary of Photography."

Accelerator. The constituent of a developer that is used to hasten the process of development. Thus in a pyro-soda developer the carbonate of soda is the accelerator. An increase of accelerator in a developer has the effect of quickening the action and at the same time tends to soften the Libracter of the developed image. (See Davelopers and Development.)

Nelopment. Acta. A strong-smelling corrosive acid. Should be kept in stoppered bottle. "Glacki" Acout Acid ighte-strongth usually employed in photography. This contains 99 per cent. of acid and r per cent. of water. It crystallises at about 34° F. The commercial "strong" acetic acid is one-third of the strength of the glacial acid. It is a solvent of pyroxy-

Acetone is a volatile liquid with a pleasant smell and can be used as a substitute for all.all in various developing formule. The following pyro-acetone developer is recommended.

developer is recommended.

Pyro
90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 grains 90 g a lens uncorrected for chromatic aberration a blurred a term uncorrected for constant appearation a surrest picture would be produced owing to the superposed images of different colours not coming to the same focus. A more completely corrected lens (for colour) is termed, apochromatic. (See Chromatic Aberra-

Acid-Fixing Bath. The use of an acid-fixing bath is recommended by many plate and paper makers. The bath keeps clear longer and generally tends to give brighter and cleaner results than when plain hyposulphite of soda is used. The acid-fixing bath must not be used for printing-out-papers. A convenient formula is:—

A cheaper form of acid fixing bath which works well is :--

Hypo 1 lb. Sodium basilplate lye 1 lb. Sodium basilplate lye 1 lb. 1 ozs. Water 50 ozs. (See Fixing.)

(See Fixing.)

Actinometer. An instrument for measuring the actine value or strength of hant, (See Exposure and Exposure-Meter.)

Adapter. A contrivance consisting of supplementary flanges or rings for fitting a smaller lens to a camera-front in place of a larger one. An adapter may be extemporised for occasional use out of thick card-board, or strips of paper may be bound round the thread of the smaller lens until it can be firmly screwed home into the ring of the larger lens which is attached home into the ring of the larger lens which is attached to the camera front.

to the camera front.

Adon is the name of a special form of telephoto
lens made by Messrs. Dallmegar.

Adurol. A developer for plates and bromide and
gashight papers. The following two-solution formula
is a good one:—

photographic enulsion making.

Air-Brush is an instrument employed largely by professional photographers and others for working up professional photographers and others for working up and finishing photographs and enlargements in monochrome or colour. Air is pumped by means of a footblower through a tube into a small instrument similar in size and appearance to a pencil or fountain-pen. The point of this "brush" terminates in a chamber containing hquid colour, and at the extreme end is a fine orifice through which the colour is driven in a

very fine spray on to the picture. The strength and width of the line of spray is regulated by a movable needle in the onface. This is actuated by finger pressure, which also controls the air passage. The spray of colour is directed like a paint-brught to the parts of the picture that require darkening or altering.

Albuminised Paper is the name generally applied to a form of printing-out-paper that has now been practically superseded by golatino-chloride and collodio-chloride printing-out-papers. It is prepared by sensitising, in a nitrate of silver bath, paper that has been previously coated with albumen (white of egg) and a chloride in solution. The paper after printing under a negative is toned in a gold-acetate bath. print

Water . .

(See Development and Bromide Printing.) (See Development and Bromide Printing.)
Ammonia is a very volatile pungent gas known to
photographers as a solution in water and termed liquor
ammoniae fort. a.g. '88... It should be kept in a cool
place in well stoppered hottles. The funes should not
be inhaled. It is used as the alkali in pyro-ammonia
developer at its strength is uncertain.

Ammonium Bichromate. Made by neutrallength of the manner of the property of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th

upon the action of light on bichronatised gelatine, such as the carbon process and the oil process.

Ammonium Eromide. Used as a restrainer [v.v.] in development. Potassium bromide is now more frequently used for the purpose.

Ammonium Carbonate is used occasionally as a alkali in development.

m alkali in development.

Anmonium Bulphooyanide is used in conjunction with chloride of gold for toning gelatino-chloride printing papers. It is a very doliquescent sait and for thisireason should be made into a roper cent. solution when quite fresh. It has a softening affect on gelatine. (See Toning.)

Amyl Acetate. A colourless liquid with a fruity smell. It is used as a solvent of proxyline in the preparation of celluloid and celluloid varnish. A good celluloid varnish for application cold can be made by dissolving 120 to 150 grains celluloid in 16 ozs. amyl acetate. (The celluloid may be old films with the relatine removed.)

gelatine removed.)

gelatine removed.)

Analysh is a form of stereoscopic print in which one half of the pair of pictures is printed in one colour (red) and the other is printed over it in a complet mentary colour (green). The stereoscopic effect us obtained by looking at the print through two pieces of glass or coloured gelatine, one of which is cotoured red and the other green. One eye looks at the green image through the red glass, the other eye sees the red image through the preen glass.

Anastigmatism is a defect in photographic lenses whereby it is impossible to focus sharply vertical and horizontal near the margin of the field of view. It should not be

confounded with "curvature of field," as in this case the alteration of the focus will improve the marginal definition, though destroying the focus in the centre. An anestigmat lens is one-free from astignatism. The best forms of modern lenses are corrected for astignatism. A simple test is to make a vertical gross of white paper (not too large) and focus it sharply the centre of the ground glass screen of the camera. Then whind the small image of the white cross is at each end of the plate in turn. If the lens is corrected for astignatism, the image should remain as sharply defined as it was at the centre (with lens at fall aperture). If the vertical or horizontal arms of the cross are blurred, the lens has not been corrected.

it was at the centre (with lens at full aporture). If the lens has not been corrected.

Angle of Ylew is the angle included by lines drawn from the lens to the edges of the plate it is covering when the insage is sharply focussed.

Angle of Lens is determined by the focal length of the lens in relation to the size of plate with which it is used. Thus one lens of a given focal length which wide angle, ind-angle, or narrow-angle, according to whether it is used on a large plate or a small plate. A normal-angle or mid-angle lens is one of which the focal length is about the same as the diagonal of the plate it covers. Thus a slinch lens would be a normal-angle for a quarter plate (4 in. × 3 in.). If, however, the same lens is used on a hair plate (6 in. × 4 in.), it becomes a wide-angle lens, as the angle of view it be middle of the same lens is used on a \$\frac{1}{2}\$ in. X 3 in. plate, it becomes a plazow-angle, as the annount of view included in the area of the plate its smaller and embraces a narrow angle.

Anthydrous measure free form water. Must chemically a recommended in a formula and crystals are used instead, it is necessary to ascertain how much more of the crystals is required to have the same effoct.

Anthydrous heaves is required to have the same effoct.

effret

more of the crystals is required to have the same effect.

Animal Photography. (See Nature Photography.

Aplanat. The name given to a lens that has been corrected for spherical and chromatic aberrations.

Aparture is the term denoting the size of the diaphragm or opening in the lens through which the light passes to the sensitive plate. The entire surface of the glass of a lens is never used, the outer edge being cut off by the diaphragm or "stop" (g.w.).

Architectural Photography. The photography of architecture (houses, churches, cathedrals, &c.) both interior and extenor calls for a rigid camera with ac ustiments for rising front, swing-back, and wide-angle lens. It is usual to stop the lens down to obtain the finest detail and give fairly long exposure, using backed platry. (See Halation.) To secure the best results the back of the camera must be perfectly perpendicular, no infatter how much the front is swing or raised, otherwise the vertical lines of the building will, in the photograph, converge towards that top or bestion according to the thursen of that an angle. A citry wide angle lens tends to give distorted perspective in architectural "ink. When photographing interiors a rough and ready rule that may serve as a guide for exposure is to focus with the open aperture of the lens. Then, with the head under the focus ing cloth, stop down the lens until detail is only just visible on the ground glass. With a rapid plate ten minutes' exposure will be about right.

Aguatains. Another and earlier name for the gumbichronate process (q.v.).

Another and carner mane for the gunbichronate process (p.v.).

Aristotype a name applied to one particular make of gelatino-chloride paper but occasionally used as a general term to printing-out-papers with a base of Artificial Light Photography. (See Flash

Autochrome Plates are the invention of MM. Lunnère of Lyons and are intended for the production of photographs in natural colours. The results are extremely true to nature but are, so far, only in the form of glass transparencies. Thus each exposure yields but one colour transparency. The photograph is pro duced with the aid of minnte transparent starch grains which are stained—some blue-wiolet, some green, and some orange—the proportion of each being of course definite. These grains form a layer or substratum on the glass plate on which is then coated a panchromatic emulsion. An orthochromatic screen is used in exposing and the exposure is made through the glass sid · In this way the colours of the image are filtered through the screen of coloured starch grains before reaching the sensitive film. The constituents of this screen permit certain colours to masacroprime as they screen permit certain colours to pass according as they approximate the colours of the starch grains. Exposure approximate the colours of the starcing rains. Exposure varies according to light and subject but as a rough guide one second at 78 at midday in summer sunshine for an open landscape subject will be about right (this is with the correct yellow screen in position on the front of lens). Other exposures can be calculated from this. The development needs two separate treatments. A negative is produced first and this is

the plate.
Other developers may be used for autochromes, and it is quite possible to control development and compensate for under or over exposure. As best, however, to adhere as Such as possible to the makers'

ever, to suntere as guen as possible to the makers mistructions.

Agol. A patent one-solution concentrated developer that requires only the addition of water for use. Gives negatives of very fine quality and gradation, and legings up detail in under-exposure. Azol is good also for bromide and gaslight papers and lantern slides.

Background. There are many kinds of backgrounds in photography, as anything that is behind the principal figure or object in a picture may come under this name. Natural backgrounds are most pleasing, but for portraiture painted backgrounds or sheets may be employed. (See Portraiture). A pleasing plain background can be made with an ordinary blanket pinned up to avoid creases.

Brown cartoon paper (obtaining in long rolls and various widths) is also, very useful for some subjects. The colour or tone of the background will affect the colour or tone of the figure or object photographed. Thus a dark background will have the reverse

effect; contrasts should therefore be avoided, but a gradated background passing from dark on one side to light on the other—or diagonally, will be found handy fee portraits. To prepare a home-made background, Anbicached calico of sufficient size should be stretched on a light deal frame, or if it is to roll up when not in use, the calico can be tacked to a convenient wall while being prepared. The following mixture should be freely painted over the surface:—

Common whiting. . ib.

Glue powder. . ib.

Treacle . . . ipint.

Water . . . . grallon.

Mix theroughly and add
lvory black . . 1 oz.

Ultramarine . . 0 oz.

recommended:—
(1.) Anuluse Black, bought in the form of a paste, is muxed with yellow destrin and water to form a black paste. A little split is added to facilitate drying. This is spread thinly with a sponge on the back of the plate. This black backing is specially satisful for the plate.

Carmel 102.
Burnt sienna in powder 102.
Mix in a mortar. If too stiff add a little spirit, and spread over back of plate with sponge or pad of line.

An old printing frame makes the most suitable holder An old printing frame makes the most suitable holder for the plate during backing. It is placed in position, glass side out fin the dark room of course, a pad of perfectly clean blotting-paper is then placed in contact with the film side and the back put into position. In this manner the backing can be applied cleanly without soiling the fingers, and a dozen plates can be backed and put up to dry in a very short time. The first can be put into the dark slide of holder as soon as the twelfth is backed.

Most makers now, supply their plates ready, backed

Most makers now supply their plates ready backed at a small extra charge. Backed plates should be used always if possible. The backing mixture can be removed with damp sponge previous to development.

removed with damp sponge previous to development.

Baryta Paper is pure paper coated with an
emulsion of sulphate of barium, made parity insoluble
by chrome alum. This is used as a support for
gelatino-chloride printing-out emulsions and in
collotype printing, etc.

Baach's Devaloper is a pyro-potash developer
named after its inventor, F. C. Beach, of New York.

The following or the focusion.

The following is the formula:

a. Hot distilled water

Sulphite of soda

Vene cold add:

Sulphite of soda

2 ozs. | Sulphurous acid | 2 ors. | Pyro | 0 c. | Carbonate of potash | 3 ozs. | Sulphute of soda | 2 ozs. | Water | 7 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of soda | 2 ozs. | Carbonate of

Water  $\frac{1}{2}$ . . . . . . . . . . . . . . . . . 7 028. For use mix 1 dram of a, 1 dram of b, and 1 oz. of water.

For over-exposure use more of a.

For under-exposure use more of b. (See **Develop-**

Bellows. The folding portion of the camera which unites the back and front portions is called the bellows and is usually made of blackened called or leather. The folds have to be carefully designed and well constructed so that they close up evenly into the smallest possible space and are quite light-tight.

Slight damage to camera bellows can usually be repaired with black sticking-plaster—or with small pleces

of thin black kid glove applied with seccotine or

Bickromate of Potash is a red coloured crystalline chemical which has the property of rendering many colloids—such as gelatine, sum, etc., insoluble, when the latter, after being treated with it, are exposed to light. It is used in the carbon, the gum-bichromate, the oil and the bronoil processes, also in the chronium intensifier.

Bird Photography. (See Nature Photography.)

Bincking. The interior of all cameras, dark-sildes, and lens tubes should be coated with a dead black to prevent the reflection of light and consequent

black to prevent the reflection of light and consequent fog on the plate. A good black for the purpose can be made by grinding lamp- or ivory-black into a paste with japanners' gold size. Another formula for blackening wood is as follows:—

which changes to black in contact with the wood.

To blacken leather-covered hand cameras which have become shabby apply the following mixture with a sponge:-

Blanchard's Brush consists of a piece of swans-down calco doubled and fastened by means of an indiarubber band round the end of a strip of glass a inches wide and 6 inches long. It is used for applying various sonstituing solutions to papers, giving a streak a inches wide, of eventy distributed solution with each sweep of the brush across the surface of the paper.

surface of the paper.

Blistare occasionally occur in printing papers in hot weather and very occasionally in plates. A bath of alum in solution will usually prevent blistening; formalin (r part in so water) is also a proventative.

If blisters have already formed on the surface of bromide or printing-out paper, they may be reduced with a bath of methylated spirit.

Changes of temperature in different solutions when a print is being passed from one to the other is a frequent cause of blistering.

Blocking-out. A term used to describe the

Blocking out. A term used to describe the application of black, red, or other opaque paint to those parts of a negative that are not required, when the print is made. The parts that are "blocked out" do not allow the light to pass and remain white in the

print.

Blue Print Process, called also "ferroprussiste" or "cyanotype" process. This process, in which salts of iron are used for the production of the image, gives a picture of a bright blue colour. One method of preparing it, so that a positive image is obtained from a negative, is as follows:—Good smooth drawing paper is pluned on to a board and coated by means of a Blanchard brush (q.v.) with:

s. Posture in ferricyanido 75 grains.

Water 15 Grains 15 Grains

Ammonio-citrate of iron 96 grains,
Water 96 grains,

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Mix equal parts of a. and b, for use. Mix equal parts of a. and b. for use.

Dry the coated paper in the dayk and print under
the negative in a printing frame in the ordinary way
until the image is clearly seen of a greenish colour.
The prints are then well washed in plain water till the
high lights are quite white. Rinse in hydrochioric
acid x dram, water no casa, and then again in plain
water. The print is then dred. The process, and
account of its cheapness and ease of making, is largely
used by architects and engineers in copying plans and
traches, etc.

ment by arcinects and engineers in copying plans attracting, etc.

Boiting Silk or Cloth is a fine-mesh translutent fabric used in photography for diffusing both light and definition of defall when making enlargements. Interposed between the lens and the brounder paper various degrees of diffusion or softening of the inage

can be introduced according to the distance from the paper. It is best stretched on a light frame for use, Books on Photography. There are a great number of books on photography that should be read by the serious worker who wisites for further instruction in the art. The following is a selection of some of the best :-

"How to ensure Correct Exposure."
"To make Bad Negatives into Good."
"Development made Easy."
"Home Portraiture unde Easy."
"Price 4d. each. (Published by Hazell, Watson and Viney.)

The Text Book for general information and reference on everything photographic:—

"The Dictionary of Photography." Price 7s. 6d. (Hazell.)

For Special Brunches of Photography ;-" Practical Pictorial Photography" (Hinton); price

28.
"Lantern Silde Making" (Lambert); price 18.
"Browlde Printing" (Lambert); price 18.
"The First Book of the Lens" (Piper); price

"Chemistry for Photographers" (Townsend): price

IS.
"Photography on Tour"; price 6d.
"First Steps in Photo-micrography"; price 1s.
"Photography with Roll and Cut Films" (Hodges);

"Photography with Roll and Cut Films" (Hodges); price is, "The Perfect Negative" (Lambert); price is, "Finishing the Negative" (Ward); price is, "Retouching" (Hubert); price is, "Retouching" (Hubert); price is, "Carbon Printing" (Somerville); price is, "Carbon Printing" (Wall); price is, "Patinotype Printing" (Huthon); price is, "P. O. P" (Hinton); price is, "P. O. P" (Hinton); price is, "Marine Photography" (Mortimer); price 6d. "Portraiture without a Studio" (Lambert); price is, "Making Knlargements" (Sinth); price is, "Development and Developers" (Brown); price is, "Flashlight Photography" (Mortimer); price is, "Hand Camera Work" (Kilbey); price is, "Photography of Coloured Objects" (Mees); price is, "Photography of Coloured Objects" (Mees); price is, "Photography of Coloured Objects" (Mees); price is, "Price i

"Photography for the Press" (Ward); pnce 1s.

"Photography of Coloured Objects" (Mees); price 1s.

"The Oil and Bromoil Processes" (Mortimer and Coultburst); price 1s.

Broken or Granked Negatives can generally be Pilated from if the gelature film is not broken as well as the glass. First, to prevent further fracture, cement a clean piece of glass (same size) to the glass side of the broken negative. This cas be easily done by applying small spots of seccotine or fish glue to the corners, pressing the two surfaces together, and allowing to set hard under light pressure (such as book placed on top). The negative should then be printed from in an ordinary frame, but should be placed at the bottom of a deep box so that vertical light only-writes the cracked surface. An alternative is to place the printing frame in a shallow tray then rotated while the negative is printing, the crack will scarcely show in the print. The same principle may be applied in a modified form to bromide or reasilght printing, or the film may be stripped from the broken glass and transferred to another plate. (See Stripping) If both the film and glass are broken the first method is best, taking care to assemble the pieces carefully and in exact register on the surface of the new glass, using a spot of, or a drop of, Canada balsam for each piece. If the cracks still show, and the negative is a valuable one, an enlargement should be made from it, the cracks carefully of, Canada balsam for each piece. If the cracks still show, and the negative is a valuable one, an enlargement should be made from it, the cracks carefully painted or worked out, and the enlargement them copied to make a new negative. A positive may also be made from the broken negative and a new negative made at the target of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

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used for obtaining prints by development either by contact printing or enlarging with daylight or artificial light. There are a great number of brondide pepers on the market, and obtainable from all photographic dealers. They vary only in surface textures (glossy, matt, smooth, rough, etc.), and slightly in speed. The paper is sold the packets and rolls. Packets of cut sizes are most convenient to handle. It should be opened and used in the dark room in veiling or orange light. and used in the dark room in yellow or orange light.

The sensitive surface is easily seen by the tendency to curl inwards. If further evidence is needed, the corner of the sheet may be nipped between the teeth; the sensitive (or emulsion) side will stick to the teeth.

For contact printing the paper is placed in a printing frame with the negative, sensitive side to the film of the negative in the same manner as for daylight printing with P.O.P.  $(q, v_*)$ . The loaded printing frame is then taken out of the dark room and exposed to gas, electric, or lamp-light, or the white light may be turned up in the dark room (take care that the remainder of the

bromide paper in the packet is covered up).

bromide paper in the packet is covered up).

The exposure varies according to the intensity lof
the light, the distance of the negative from the light,
and the density of the negative. The speed of the
paper also affects the exposure. The makers' instructions, given with each packet of paper, should therefore
be followed as to correct exposure, or trial slips may
be exposed and developed until the right time is accertained. As a rough guide, with a negative of average
density, an exposure of fifteen to twenty seconds may
be tried at a distance of 18 inches from the light of an
ordinare fesheel are shower or from a sichest each ordinary fish tail gas burner, or four to eight seconds with an incandescent burner. The worker should try to work with the same light and always at the same distance from it: by this means, when the varying densities of negatives are gauged, good prints can be made with every exposure.

Development of the print is conducted in the dark room. Prints up to and including 10 × 8 inches can be placed dry in a developing dish and flooded at once with the developer. Larger prints should be soaked first in plain water, taking care in both cases to avoid air-belly forming on the si face. If the print is overair-bella forming on the si face. If the print is overexposed, the image flashes up quickly and soon goes
grey and dark all over, with no contrasts. If it is
under-exposed, the image appears slowly, and the
sladows clog up and get very black, while the high
lights remain thin or light. If correctly exposed, the
image will come up gradually and evenly, the shadows
first, then the half-tones, and finally the details in highlights. The dish is rocked during development, and
when the print is fully developed (this is best ascertained by looking through the print, not at if), it is
fixed, washed, and dried.

Developers, for Bromde Prints. One of the

nxed, washed, and dried.

Developers, for Eromide Prints. One of the best developers to bromide paper is amidol. This gives fine black tones, and is easy to make up. A good formula is given under Amidol (q.v.). Another good formula for a developer that keeps well and gives good tones on bromide papers, is:

Metol . . . 8 grains.

Hydroquinine . . 30 grains.

Subnite of Societ.

Hydroquinine 30 grains.
Sulphite of Soda 4, 2 Oz.
Carbonate of Soda 0, 0.2.
Potassium Brounde (10 % solution) 20 minims.

over-exposed.

After development the prints are fixed in

Hypo . . . . 4 oz.

Water . . . . 1 put

or the hypo-metablsulplite fixing bath given under
"acid-fixing" (g.v.). Fix the prints for ten minutes
and then wash well in running water (or several

changes) for one hour.

To ensure success in making bromide phints, the
sposure should be correct, the dark-room light should
be safe (otherwise the prints will be fogged), the dishes,
etc., should be kept clean, and the developing dish

never used for fixing and vice verse. Contamination with hypo on the surface of the prints or in the developer should be avoided, or marks and stains will result. The hypo bath should be about same tempera-

result. The hypo bath should be about same temperature as developer, or blisters may occur. For making enlargements and toning bromides, see Enlarging and Toning.

Bromodil is the name of a process for the production of photographic pictures in oil-pigment upon abuse consisting of a bromide print or enlargement. The outlines, details, and masses of the original photograph are retained, but the tones can be darkened or lightened generally or locally at the will of the operator and the success of the final picture depends upon his artistic skill. The procedure is as follows:—A bromde print of good quality (fully exposed and developed—preferably in amidol developed is bleached in the bromoil bleaching solution sold by all dealers for the purpose, or the following may be made up: made up :-

Ozobrome stock solution . . . . 4 parts. so per cent. potash alum solution . . . 4 parts. so per cent. curic acid solution . . . 4 parts. Water to make 20 ozs.

An alternative formula is :-

Potassium bichromate 10 per cent. sol. . 2 parts. Potassium bromide . . I part. ,, 1 part. ,, 4 parts. ,, 1 part. Alum 11 11 Citric acid

Citric acid ipart.

Water in parts.

In any of these bleaching baths the black colour of the bromide disappears leaving only a faint yellow image. The print is then rinsed and placed in Water ipint.

Sulphuric acid ipint.

(Note.—Add the acid to the water and not vice versa.)

Allow the print to remain in this for five minutes.

Then again wash and fix m

Water 20 023.

Finally, wash again and place the print on a pad of wet blottling paper when it is ready for pigmenting, orit may be hung up to dry and then re-wetted at some future time for pigmenting when required. The pigmenting is conducted with special fitch and hog-hair brushes in the same manner as in "Oil-printing" (q.w.).

brusnes in the same manner as in "Oil-printing" ([e.w.]. **Bulb Exposure**. Every instantaneous shutter, that is fitted with a pneumatis ball and tube arrangement for actuating the mechanism, can be kept spen awill by pointing the index of the shutter to "B" (bulb) and keeping a steady pressure on the indiarubber ball. The term "bulb exposure," i.e., keeping the shutter open at will, is now also used with shutters that have no posumptic given.

ball. The term "bulb exposure," i.e., keeping the shutter open at will, is now also used with shutters that have no pneumatic release.

Burnlshing is the operation of drawing prints over the surface of a heated bar. A burnisher for photographic prints is constructed somewhat on the principle of the household mangle, but with the lower roller stationary. The surface of the prints (the prints are mounted ou card) is lubricated with a solution of fine grains of Castile Soap dissolved in an ounce of methylatedispirit. This is rubbed over the print with a sponge. Burnishing is generally done by professional photographers. For other methods of applying a nurgh gloss or glaze to photographs see Bnamelling and Glazing.

Calcium Chloridee, a chemical that has the property of very, readily absorbing moisture from the air. It is used in photography for drying the air in preservative boxes in which platinotype paper is kept. When the calcium chloride has absorbed a certain amount of moisture it becomes damp itself. When the calcium chloride has absorbed a certain about or own until dry again and ready for further use. A calcium tube or box is the term applied to the receptacle in which platinotype or carbon papers are kept. The air within is kept perfectly dry by means of pleces of calcium chloride in the bottom of the tube robx.

Camera. The term is now so well known as hardly to need a definition. It is an apparatus consisting

Camera. The term is now so well known as hardly to need a definition. It is an apparatus consisting of a light-tight box with a lens or its equivalent at one

end and place for the light sensitive plate or film at the opposite end. The image of external objects is projected by the lens on to the screen or plate within the camera. In form it may be wooden-sided box, leather covered or polished, or it may consist of merely the back for the plate and the front for the lens connected with a light-tight collapsible bellows and held apart by struts or a baseboard, both of which will fold up when the apparatus is closed. Cameras may be divided roughly into three groups: (1) stand cameras, (2) hand cameras, and (3) hand and stand cameras combined (g.v.).

Careanel, a form of burnt sugar used in photography for backing plates in the prevention of dialation (g.v.).

graphy for be Halation (q, v).

Halation (g.w.).

Carbon Process. This process consists of the formation of the photographic image in carbon or coloured pigment mixed with bichromatised gleatine. It depends upon the action of light on gelatine which has been treated with bichromate of potash or ammonium. Gelatine so treated becomes insoluble when exposed to light. If coloured pigment is mixed with the gelatine, which is then treated with bichromate, and paper is coated with the mixture, a sensitive surface is produced that, when exposed bichromate, and paper is coated with the mixture, as sensitive surface is produced that, when exposed under a negative in a printing frame, will regoduce all the gradations of the negative in degrees of varying insolubility according to the relative densities of the image. As the surface of the pigmented gelatine is dark no visible image can be seen when printing, and it is therefore necessary to use an actinometer to time the correct exposure, or the time taken to print a piece of P.O.P. under a similar necessive may be taken as a mile. The similar negative may be taken as a guide. The negative must be given a "safe-edge" before printing. This is a narrow band of black paper stuck round the negative must be given a "sate-edge" before printing. This is a narrow band of black paper stuck round the extreme edges of the negative and prevents the positive or print it is necessary, however, that the positive or print it is necessary, however, that the positive or print it is necessary, however, that the pigmented gelatine, or "itssue" as it is called, should be transferred to another support before development. Development is conducted with hot water only, and the object is to dissolve away all those portions of the tissue which were unacted upon by light and remain soluble, leaving only the picture which is formed of the insoluble tissue. It is obvious that as the light acted upon the sensitive tissue from the top downwards the upper portions become insoluble first and development or washing away of the soluble parts must proceed from thesbottom. To achieve this the tissue, after printing is complete, is placed face to face with a piece of "transfer paper (sold for the purpose) and both are immersed in cold water until the first tendency to curl has ceased and the tissue remains flat. They are then withdrawn, still face to face, and vigorously squeezed into perfect contact. They are then placed between blotting locards for five or ten insures all in a half of water at a terminative of They are then placed between blotting loards for five or ten muntes under pressure (a large book will do) and immersed in a bath of water at a temperature of 105° or 110° F. When the pigmented gelatine begins to ooze out at the edges of the paper, strip off the paper upon which the gelatine was originally spread and keep washing the print which remains on the transfer paper with the liot water by throwing the hot water on to it with the hand or by means of a cup or small soft spouge. As soon as development is com-plete and the picture remains perfectly clear upon its small soft spoinge. As soon as development it complete, and the picture remains perfectly clear upon its new support, it is plunged into a bath of cold water to set the gelatine and then placed in a bath of the following:—

Fowdered Alum . . . . . roz.

Water . . . . . . . 20 025.
This both fixes the print and clears it also. The print is finally washed in several changes of water and hung

is finally washed in several changes of water and nung up to dry.

This process is called "single-transfer," and it is obvious that the picture so produced is reversed right and left. For many subject*—such as landscapes, etc., this does not matter. But if it is desired to have the picture right-way round the print must be retransferred, and this is called "double-transfer," In this case the first development of the print must be conducted on a waxed "temporary support"—(obtainable from all makers of carbon tissues). The

procedure is the same up to the final washing. The wet print is then brought into contact with a piece of "final support" under the surface of water, and complete contact secured by squeegeeing and putting under pressure until dry. When dry, the temporary complete contact secured by squeegeeing and purting under pressure until dry. When dry, the temporary support is stripped off and the picture remains right way round on its final support. The final support may be paper of any texture, and almost any herd-surface material—such as wood, ivory, etc., may also be used. It is prepared by coating with a substratum of Nelson's gelatine, to sunce; water, so ounces. When dissolved (with heat) add to it gradually 12 grains of chrome alum dissolved in x cunce of water. The chrome alum dissolved in r ounce of water. The commercial final support—which is supplied in great variety by the makers of the tissue—merely requires soaking in alum solution, a ounce to the pint, an hour

scaking in alum solution, a ounce to the pint, an hour before using.

Carbon tissue can be bought either "sensitive" and ready for immediate use, or "insensitive," when it requires sensitising in—

Potassium bichromate 4 drs.
Citric acid 1 dr.
Water 25 ozs.
Ammonia (1800)—sufficient to turn the liquid a pale yellow colour (about 3 drs.).

The insensitive tissue is immersed in this for two minutes in lot weather, or three minutes in cold. It is then hung up to dry and keep tyrotected from light, air, and damp. The tissue when sensitised (either bought or home-made) will not keep long. The tissue when printed has a continuing action, and the printing will go on even after it has been taken out of the printing-frame and placed in the dark. Development should therefore be undertaken soon after printing.

Celluloid, a transparent material, the chief con-

should fluerelore be undertaken soon after printing.

Cellulold, a transparent material, the chief constituent of which is pyroxyline or gun-cotton. It dissolves in anyl accetato or acctone and forms a useful varnush. It is cliefly used in photography as a substitute for glass, and as the base for "cut films," "roll films," and "film packs" is familiar to every amateur. It is also used as the base for cliematograph films, and when coloured is employed for the production of developing disles, etc. It is fery inflammable and must not be used near a naked fiame.

Certinal. A trade name applied to a concentrated one-solution developer for Plates, Films, Papers, and

antern slides.

Antern slides.

Changing Bag. A very portable form of dark tent used for changing sensitive plates in daylight. As a converient accessory for the outdoor photographer it is very usefut. The bag is usually made of several thicknesses of opaque maternal and is shaped somewhat like a pillow-case with sleeves. The dark-slides and plates are insorted into the bag, the hands of the operator are introduced through the sleeges, which fit closely to the arms, and the plates are changed inside the bag in perfect darkness by sense of touch culv.

only.

Chlorida of Gold. Used in making the gold-toning baths for various silver printing-out papers. It is sold in small 15 or 19 grain tubes, the contents of which should be dispolved in 15 or 75 drams of water.

Chromatic Aberration. Every simple single lens suffers from the defect, which is due to the fact that rays of light of different colours-are refracted at

that rays of light of different colours-are retracted at different angles; and each differently coloured ray of light that goes to build up a picture has a different focal length. Moreover, the principal "visual" rays are focussed further from the lens than the "chemical" rays. Chromatic aberration is corrected by combining one lens with another of different power so as to brigh the principal visual and chemical rays to the same

Cinematograph. An apparatus for the projection of animated pictures. The pictures are taken in a special machine on a continuous film at the rate of about twenty per second. The pictures are projected on to a screen—magic lantern fashion—by means of a lens and strong light enclosed in the apparatus, and the effect of motion is given to the miclent depicted by the rapid sequence of continuous series or succeeding according to the original subject. As each by the rapid sequence of commons series at successing exposures taken of the original subject. As each separate picture in the series is brought before the lens, a revolving shutter uncovers it and allows the light to

strike through, the shutter then covers the lens for a fraction of a second at the instant when the film is moved on, and the following picture of the series is then uncovered. This is repeated with great rapidity, and the retention of vision assists in giving an impression of the continuing action rather than any individual phase of it.

CRaping Bath. When negatives become stained in development, a clearing bath is sometimes necessary to remove the stains. The following is a good formula:

Alum. 2028.

Thiomarbamide.)
Gloud Negatives are produced most readily on orthochromatic plates used in conjunction with a yellow light filter. Strongly marked clouds may, however, be easily photographed on ordinary plates, using a fairly small stop and rapid exposure. The utility of cloud negatives for printing suitable skies into landscape subjects is great (see Combination Printing), but great care must be taken that the lighting of the landscape and that of the clouds printed in is from the same direction. Cloud negatives should not be too dense, but rather on the thin side and full of delicate gradation. A soft working developer, such as rodinol or metol, is most suitable.
Colledio-Chlorida printing-out papers are similar

or metol, is most suitable. Collodfo-Chlorida printing-out papers are similar in many respects to the familiar gelatino-chlorida P.O.P., but are made with a collodion base for the sensitive emulsion instead of gelatine. These papers (sometimes known as C.C.) are printed out under a negative in daylight, and are toned and fixed as in the case of gelatino P.O.P.  $(q, v_c)$ . They are also made "self-toning," and need fixing only. One great advanage of C.C., paper is its hard surface. It can be driebelween blotters or in front of a fire if prints are wanted

quickly.

Coilodion is used in wet-plate processes, and also in preparing an enamel surface for prints. It is made

m preparing an enamet surrace for prints
by dissolving pyroxyline [gun-cotton) in a maxture of
equal parts of alcohol and ether.

Collotype is a photo-mechanical process by which
prints in a greasy link are obtained by means of a film
of gelatine used as a printing surface. The picture is
produced in the gelatine by the action of light through
the collection in the gelatine by the action of light through

or geatine used as a primiting surface. The Dicture is produced in the gelatine by the action of light through a negative—the gelatine being previously treated with blichromate of potash. After exposure, the first of gelatine is washed and inked with the greasy link by means of a printer's ink-roller. The ink adheres only to those places which have been affected by light by using a suitable press, many proofs can be obtained. Colour-Sansitive. (See Orthochromatic.) Colour-Sansitive. (See Orthochromatic.) Colouring Photographs. There are many special sets of tints sold by all photographic dealers for the purpose of colouring or tinting photographs. These are mostly aniline dyes in solution, and are applied in thin washes with a brush direct to the surface to be coloured. Aniline dyes—obtained in crystals of almost any colour-dissolved in water to which a drop of liquid ox gall and a little gum arabic have been added, will serve the purpose well. Ordinary transparent water colours can also be upcased. A little ox gall in gum water serves as a medium, and Ordinary transparent water colours can also be used.

A little or gall in gum water serves as a medium, and
overcomes all tendency to greasiness that occurs with
some prints. Several thin washes of colour applied
evenly are better than one full wash. Ordinary oil
colours thinned with megilp and turpentine "ma also be
used effectively on glossy surfaced prints. Use the
transparent colours only. The air-brush is also an
effective method of applying colours. (See MirBreach.) Bruch.)

Colour Photography. The Autochrome pro-cess (e.w.) is at present the most satisfactory and raccessful form of direct colour photography. There are several other somewhat similar processes, all of which appear to be founded on the same idea of a screen plate, and the results are all in the form of colour transparencies. Colour photography on paper is still any possible in a satisfactory manner by means of the

three-colour process. This necessitates the taking of three separate negatives of the subject through three different colour screens (red, blue-violet, and green). Prints from these three negatives are produced in the primary cofours, superposed on one piece of paper, and in combination reproduce the colours of the original. Colour Screen. (See Light Filter.)

Combination Printing. It is frequently necessary in the production of a pictorial photograph to combine the best or most effective portions of two or more negatives to make an effective whole. To do this successfully requires both skill and knowledge, otherwise results may be produced that betray their method of production to clearly. The most general application of combination printing is the addition of clouds from a suitable sky negative to a landscape subject. This is done by covering over—or masking—the sky portion of the landscape regative by means of a piece of opaque paper, the edge of which follows the general outline of the horizon. The landscape or foreground portion of the picture is then printed, and the negative is replaced with the sky negative. The print is arranged under this, so that the sky comes in the portion left blank, and the landscape part is now protected by masking with another piece opaque-paper in the same manuer as the sky assign and the negative is replaced with the sky negative. The printing frame, and printing should be conducted in diffused daylight, so as to secure as soft an outline as possible. In this way it is possible for the landscape and sky portions of the picture to be printed on the same piece of paper without showing a join. Foreground, middle distance, distance, and sky, can, if necessary, be printed from four separaments and the same method can be applied in making enlargements. The masks are then used between the lens and the easel on which the image is projected. The margin of the sky and landscape is from the same direction. The same method can be applied in making enlargements. The masks are then used be

Hypo 2025.

Water 1002a

Add little by little:—
Gold chlorde 7 gr.
Water 20.

There are many other formula for combined baths,

but they are not generally recommended on account of the possibility of sulphur toning and consequent fading.

but they are not generally recommended on account of the possibility of sulphur toning and consequent facing. (See Toning.)

Composition is a term denoting the grouping of the parts of a picture so as to form a pleasing and harmonous whole. Composition in the strict sense of the word simply means placing together (com-together; position-placed); but the artist by this word means agood deal more than merely putting things together, as one might put a row of books together on a shelf. The artist thereby means: (1) selecting some things and rejecting others, and (2) arranging the things selected in such a way as to express an idea, e.g. strength, grace, activity, repose, etc. Further information on this large subject will be found in the books devoted to pictorial photography. (See Books.)

Concave, Concav-convex, etc. Concave is the term applied to the inner side of a curve or the inner curved surface of a lens. Concave-convex means that one side of a lens curves inwards and the other side is faithhis is called plano-concave. A double concave lens is one in which both sides curve in and the other side is the timer at the margins. This form of lens is called a "negative" lens.

Condanser, is the name of a combination of lenses mounted in a metal cell, which have for their purpose the condensing or collecting of rays of light which would otherwise be scattered and lost. These rays of light from a source of Illumination behind the condenser

are then thrown forward in a beam of parallel or slightly convergent rays. A condenser is a necessary part of every optical lantern ("magic lantern") and artificial light enlarging apparatus. By its beams the light of the illuminant inside the lantern is collected and thrown the mummant using the lantern is conjected and thrown forward through the transparency or negative in the most evenly distributed manner and with the greatest intensity. The usual form of lautern condenser is two

intensity. In a usual form of lattern condenser is two plano-convex lenses mounted in a brass ring or collar with the convex surfaces nearly touching, and the flat surfaces outwards. (See Lantern.)

Conjugate Fool. The distances from object or original (in copying) to lens, and from lens to focussing screen or plate. In enlarging, the distances from negative to lens, and from lens to bromide paper are the conjugate feel of the lone.

the conjugate focl of the lens.

Contrast is the term usually applied to a negative or print in which the densities of high-light and shadow are very abrupt, s.s., without much half-tone. Contrast can be reduced in a negative by a selective reducer can be reduced in a negative by a selective reducer such as ammonium persulphate, or in a print by "sunning down" the high lights, or staining the paper. (See Reduction.) Contrast is generally present in under-exposed negatives.

Convex. The opposite to concave. The outside of a curve, i.e., the surface of a lens that "bulges" out.

of a curve, i.e., the surface of a lens that "bulges" out. (See Goncave.)

Copper Toning. (See Toning.)

Copping Photographs can be conducted by either daylight or artificial light, the chief thing to watch being the evenness of the lighting. The camera must be so arranged that the picture to be copied is parallel with the focussing screen of the camera, both vertically and horizontally. Unless this is done the lines of the copy will not be straight. The lens should point to the middle of the original, and if the picture has a glossy surface the lighting should be so arranged that there are no reflections. A wall at the back of a well-lit room ba good position for diffused light, while well-lit room is a good position for diffused light, while a couple of incandescent hurners, one on each side of the picture, and well shielded from the lens, will serve for copying at night. Focus with a large stop in the lens, and then stop down to get maximum sharpness. Orthochromatic plates should be used, and if the Orthochromater pates should be used, and it the original has colours, a colour screen should be employed. The plates should not be too rapid. Exposure should be full, and can be ascertained only by trial. As a rough guide, with medium speed plate and stop if it is a rough guide, with medium speed plate and stop if it is not provided by the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s be summent. Inevelopment should be conducted white a clear working developer, such as metol-hydroquinone (q. v.)

Cracked Negative. (See Broken Negative

Gracked Negative. (See Broken Negative and Stripping.)
Crystoleum. A method of obtaining coloured photographs on glass. The process consists of squeezing a silver print in optical contact with a piece of glass, rendering it transparent, and applying point or other colours to the details of the picture (the colours are applied to the back and show through the transparent photograph); then applying broad masses of colour to a second piece of glass, which is bound up with the first. When viewed from the front the effect, if the painting has been well done, is that of a photograph in natural colours,

graph in natural colours,

Curvature of Field. In a single or uncorrected lens the rays of light do not come to a focus at the lens the rays of light do not come to a focus at the same time on a plane surface—such as the surface of a dry plate—but fall along a curve having the centre of the lens as its centre, and the focal length of the lens at its radius. To secure sharpness of focus at all points with such a lens, the plate would have to be concave, or saucer-shaped. Lenses with curvature of field will give an image sharp in the middle but blurred at the edges, or sharp at the edges and blurred at the centre, according to the distance of the focussing screen from the lens. This form of aberration is corrected in the better class lenses. The earliest practical method of

better class lenses.

Daguarraotype. The earliest practical method of obtaining a direct permanent photograph of a person or an object. Invented by Daguerre, hence "daguerreotype." The process consisted of exposing (in a camera) a silvered copper plate, previously subjected to the action of silver iodice and silver bromide, and then

developing the image by exposure to a bath of mercury. The picture was fixed in a bath of cyanide of potassium and toned in hyposulphute of gold. The exposure usually extended to twenty minutes or half an hour, in

usually extended to twenty minutes or har an nour, in bright sunshine.

Dark-Room. The room in which all operations requiring actual handling of the sensitive plates or films used in photography must be conducted. It is usually lighted by a "dark-room lamp" in which oil, gas or electric light is used. The light is filtered through a section in its used. The again is meet unfougated of the red, orange or other inon-actinic meetium [glass or fabric]. Dark ruby glass is generally safe for all but colour-sensitive plates which require special "affeights," yellow or orange medium is sufficiently safe for bromide paper and lantern plates. Safe-lights specially lights, "yellow or orange medium is sufficiently safe for bromide paper and lantern plates. Safe-lights specially manufactured for dark-room langs are now obtainable from all large fealers and should be used in preference to "home made" varieties. The general arrangement of the dark room depends largely upon its size. It should be well ventilated (see that the ventilators do not admit light as well as air, and it possible water should be laid on. A lead lined deep sink for developing hi svery convenient, and racks should be fitted for storing dishes, etc. There should be plenty of shelves within landy reach for bottles, and all bottles should be plainly labelled so that they can be read by the light of the dark-room lang. Provision should be made for turning on white light for printing bromide paper, &c. and if sensitive natorials, such as plates, papers or films are stored in the dark-room, they should be kept in a dry corner below any gas burners, otherwise the fumes which ascend will soon spoit them. The dark-room light should be tested from time to time by leaving a dry-plate on the work bench in full view of the light but with half of the plate covered up. If the light, a safe no trace of fog should appear on the exposed half when the plate is developed.

Dark-Jilde is the name given to the plece of apparatus containing the dry-plate used in the camera when making an exposure. If may be "single" when it is made to hold one plate only, or "double" when containing two. The first is usually made of metal, the latter of wood with wooden or metal draw-shutters. It is called "book-form" when it opens like a book and a plate is placed one on each sale. Dark-slides are sometimes termed "plate-holders."

Deliquescent. This term applied to a chemical substance means that it is liable to become aquid on exposure to the air.

exposure to the air.

Depth of focus or "depth of definition" is the term Lepps of focus or "depth of definition" is the term applied to the distance between the nearest and most distans objects in a view that are rendered in sharp focus at the same time. A long-focus lens with large aperture has less depth of focus that a short-focus lens with small aperture. All lenses of the same focal length and working at the same aperture have the same death of focus.

depth of focus.

Developing Machine and Developing

Tank. Mechanical contrivances for holding a num-Machine and Developing ber of films or plates in a vertical position during development. The film or plate-holder stands in a tank or metal box cantaining the developer, and development is conducted automatically. (See Stand and Tank

motal box Cataining the developer, and development is conducted automatically. (Su Estand and Tank Development.)

Development and Developers. Development is the production of a visible picture or image in dry, plate, film, or sensitive paper by chemical means from an invisible or latent impression. As applied to the production of a visible image on a plate coated with sensitive emulsion, that has been exposed to light in a camera, development consists of the application of a "developer." The developer proper; (s) the accelerator, which hastens the action of the developer (g) the restrainer; and (d) the solvent or water. The developing agent may be pyro, hydroquinone, metol, amidol, etc. (n.w.). The accelerator is usually an alkall, and the restrainer is usually a bromided Development is conducted in the dark-room (n.w.). The plate or firm is placed in a flat-bottomed developing dish, and the developer poured over it, with a sweeping action, so that sin-bubbles do not form on its surface. The plate should be protected as much as accessible from the rays of the dark-room lamp, and the

dish should be rocked so that the developer is kept in constant motion. After a time, if the plate has been correctly exposed, the image will begin to appear and gain density. With some developers, such as metol, correctly exposed, the image will begin to appear and gain density. With some developers, such as metol, rodinol, etc., the image flashes up quickly, but takes some time to gain density. With other developers, such as pyro-soda, the appearance of the image law more gradual. If the plate has been overexposed, the image will come up quickly in any case. If this happens, it should be quickly washed in plain water, and some restrainer (bromide of potas) in no per cent, solution) added to the developer, and develop-ment continued. If the plate is under-exposed, it will take a very long time for the image to appear, and then perhaps only the high lights will come up (as black patches in the negative). In this case, more accelerator should be added to the developer, and an extra quantity of water also, to dilute it. When development is complete, the plate is rinsed and placed in the fixing bath (q.w.) Correct development placed in the fixing bath (q.v.) Correct development can only be determined by experience, but generally it is safe to continue until the high lights are clearly seen as dark patches at the back or glass side of the negative. For developer-sec Pyro, Metol. Hydroquinone, Amidol, Rodinal, Azol, Adurol. See also Stand development, Tank development, Tank development, Time development, Films, Bromide paper, and Gaslight paper.

Diaphragms, or stops, are the metal or ebonite pates with a central opening used m a lens to cut out marginal rays and enable the middle portion only to be employed. Waterhouse stops are thin metal plates with circular openings of certain diameters. These are inserted in a slot cut in the barrel of the lens. It has a superior of very thin leaves of

with circular openings of certain diameters. These are inserted in a slot cut in the barrel of the lens. It is diaphragms consist of a number of very thin leaves of metal or other stiff opaque material opening and cosing circularly to various sizes in the centre of the iens mount between the front and back combination. These are the two kinds of diaphragms most frequently met with, and their sizes of openings or apertures are determined by the focal length of the lens to which they bear a definite ratio. Thusual 'soarkings' of stops are 1/5°6, ftg. 1/11, 1/16, 1/22, 1/32, 1/45, 1/64. These signs mean that the apertures are 1-5°6th, th, 1-11th, 1-16th, 1-22nd, 1-32nd, 1-14th, and 1-64th of the focal length of the lens. These apertures have also a settled ratio one to the other, and it will be found that the area of any one is just one-half of the next larger, and consequently lets one-half the amount of light through the lens to the plate. It therefore follows that double the exposure will be required for, say, 1/11 than for 1/8, or half the groosure when the correct exposure for any one stop has been ascytained. A smaller stop inserted in the lens incroases the depth of definition, and is necessary sometimes when considerable detail is wanted, but the proportionate increase of exposite with the smaller stop size midicate the ratio of exposures, and the actual f values are 1/5°6, 1/8, 1/11, 1/16, 1/12, 1/23 respectively. For general use the following maxims should be remembered:—A large stop gives a bolder picture than small one—the masses of the picture are seen ratio than fine detail. Focus with the largest aperture, then insert smaller diaphragms until the desired sharjaness

small one—the masses of the picture are seen rather than fine detail. Focus with the largest aperture, then insert smaller diaphragms until the desired sharjness is obtained. The smaller the stop the longer the approxime, also the flatter the field of the lens and the greater the depth of focus (or depth of definition).

Diffusion of Focus can be produce, in various ways: (1) By optical means in the construction of the tens itself, and a picture in which the details and outlines are softened and the masses broadened is obtained; (2) it can be brought about by putting the lens out of focus; (3) or by the obstruction of some translucent material when making the print, printing through the glass side of the negative, interposing a piece of film or glass between negative and sensitive paper when making contact prints, or by the use of Bolting Silk (q.w.) when making enlargements.

Distortion occurs in a photograph when (z) a lens

of too short focus has been used; the perspective in this case is distorted. (a) When the camera has been tilted in taking architectural pictures or copying subjects in which there are straight vertical lines. The lines in such a case will converge towards one end of the picture. (3) When a single lens is used for subjects containing straight marginal lines, these will be bent outwards or inwards at the ends according to

the position of the stop in the lens.

Double Extension is the term applied to a camera that can be extended double the focal length

of the normal lens used with it.

Doublet. A term applied to a lens that possesses two combinations or separate lenses (usually similar in construction) mounted at opposite ends of the lens

two combinations or separate lenses (usually similar in construction) mounted at opposite ends of the lens tube; one lens correcting aberrations of the other.

Dry-Mounting is the name given to a form of mounting photographs in which the prints are mounted dry on to cardboard or paper mounts with the ald of special tissue and heat. The tissue is prepared with a conting of shellac on both sides, and is first affixed to the back of the print with a touch from a hot iron. Both print and tissue are then trimmed together and placed on the mount in the correct position. Print and mount are then put under even pressure between two hyt plates; the shellac on the tissue melts and the print firmly adheres to the mount without cocking.

Dry Plates. Glass of certain specified size coated with a film of greatine in which a sensitive sait of silver is emulsified. These can be bought commercially so perfect in preparation and so cheaply that it is not worth while to attempt their manufacture at home. The dry-plate which varies in speed from slow or "ordinary" to extreme rapidity becomes the negative after exposure in the camera and development and fixing. (See Devalopment and Sixes).

Enamelling Prints. This is done by coating the finished print with a film of collodion to give it a brilliant express. The procedure is as follows: Clean

the finished print with a film of collodion to give it a brilliant surface. The procedure is as follows: Clean a glass plate perfectly (an old negative will do) polish with French chalk and coat with

Pyroxyline . . . . . . . . . . . . ro grains. Methylated Alcohol . . . . 1 oz.

Having made a solution of gelatine to grains to the ounce of distilled water, slip the collodionised plate and the print carefully into the solution of gelatine. and the print carefully into the solution of gelatine, avoiding air bubbles; bring the print face downwards into contact with the coated plate, remove from the solution, and squeegee into chical contact, and allow to dry. When thoroughly dry, raise one corner with a knife and the print will strip from the glass bearing the collodion film with it. (See also Glazing Prints.) Encausatio Pastes. A paste used to give "sin face" to the finished print. Useful for producing a slight gloss on dull or matt surfaced prints, especially in the shadows. Dissolve gum elemi in oil of lavender.

in the snatows. Dissove gum elem in on a sevena-and then add white wax previously dissolved in the same solvent. The proportions should be such as to yield a firm pomade. Apply to the print with the finger and then poish with a soft rag.

Enlarging is the operation of obtaining a larger

image of a negative or positive upon some sensitive surface such as bromide paper. It may be done by daylight or by artificial light, in an enlarging camera or by projection of the image on to an easel. The negative that is enlarged from should be sharp in detail, and not too dense or with strong contrasts. operation of enlarging tends to increase contrast and magnify other faults. A thin negative with plenty of good gradations and detail gives the best enlargement. The great number of small cameras that are now used renders some form of enlarging almost a necessity if prints of any size are required. The negative must be fixed up so that it is evenly illuminated from behind. fixed up so that it is evenly illuminated from behind, "The simplest method of enlarging is to place the negative in position in the back of the camera with him to make the back of the camera with open so that light can be freely admitted. Place the back of the camera against a hole cut in a shutter that entirely blocks out the light of a window. Fix the camera on a shelf in front of the hole, so that the only light that enters the room is through the camera. The camera thus acts as a sort of magic lantern, and projects the image of the negative on to a screen that is fitted up in front of it. Focussing is done by means of the rack and screw of the camera, and the daylight outside the window can be rendered more even (if there are obstructions such as houses on the other side of the street, etc.) by placing a large piece of white cardboard at an angle of 45 degrees just outside the hole in the shutter, so as to reflect the light from the sky through the negative. When the image is sharply focused on a piece of white paper fixed to the screen or easel (which should be quite firm and placed so that it is perfectly parallel vertically and horizontally with the camera back) the lens can be covered with a cap made with a piece of orange coloured glass in the top. This will allow the image to be still seen but will not fog the bronnide paper, which is then pinned on the easel in the place paper, which is then pinned on the easel in the place occupied by the white paper. The exposure is then made by uncapping the lens, and after exposure the made by uncapping the lenk, and after exposure the enlargement is developed in the manner described under Bromide Paper, Eularging cameras are also sold for day light enlarging. These consist of what is practically a small camera and a large camera front to front on a long baseboard. The negative is placed in a holder at the back of the small camera and ocussed on the ground glass screen of the large camera, the image being projected by means of a lens fitted in the middle at the junction of the two cameras. The brounde paper in this case is fixed (in the dark room) in a large dark slide which is placed at the end of the big camera, and the smiller cnd is then pointed towards the sky or other even source of illumination. The dark slade continuing the paper is opened and the lens in the middle is ancapped by means of a small shutter worked from the side.

means or a small siniter worken that the site. Artificial light enlarging is usually done by means of an enlarging lantern which is practically the same in principle as the magic lantern. It is made of metal or wood lined with metal, and contains the illuminant, which may be either oil, gas, electric light or limbight. A condenser (g.w.) is placed in front of this, then the carrier for the negative and the lens for projecting the impage on to the screen or easy. By jecting the image on to the screen or easel. By alteration of the distances between lens to negative and lens to easel, enlargements of different sizes can be made. The greater the enlargement the nearer the lens will be to the negative and the further away from the easel, and vice versa. The exposure in making enlargements is best ascertained by means of trial enlargements is best ascertained by means of trial strips of paper giving varying times doubling the exposure each time until the best result is obtained. This will serve as a permaient gilde for future work. It is impossible to give an exact guide as so much depends upon the strength of light, density of negative and size of enlargement. It will be useful, however, to hear in mind that the exposure increases in ratio with the square of the enlargement. Thus, if an exposure of four minutes is required for an enlarge-ment of two dimeters. ment of two dismeters (i.e., four times the area of the original negative), an exposure of sixteen minutes will be required for an enlargement of four diameters (i.e., sixteen times the area of the original nega-

hularged Negatives are made in the same manner as brounde enlargements except that the extra thack-ness of the glass plates must be borne in mind when focusing, also that the plates are much faster than the prijer. Enlarged negatives are, of course, made from positives, which may be made by contact printing non possives, when may be made by contact printing with the original negatives. Enlarged negatives may also be made on the brounde paper—which is subsequently waxed or olled to remove the grain of the paper when printing, or on negative paper which is Energy on the Contact of the purpose.

Euryscope. A trade name for a doublet a rapid rectilinear lens of large aperture.

Exposure is the generally accepted term for the period of time during which the light acts on the sensi-tive surface of the plate or film in the camera while a photograph is being taken. Exposure varies according to the following factors, all of which have to be taken into account if a good negative of any subject is to be secured:

(x) Actinic quality of the light. This depends on

time of day, time of year, and position of the object photographed.

(2) Speed of plate or film.

(3) Aperture or "stop" of lens.

(4) Colour and distance of the object photographed.

It is obvious that shorter expasures are possible when the light is very bright than when it is dull, or later in the day, that a rapid plate needs a shorter exposure than a slow one, and a small stop in the lens will lengthen the exposure in the ratio described under **Disphragms**. A dark subject will also need a longer exposure than a light one. A reliable table of exposures is given in the *Uffice Compendum section*, showing the alterations of light values for each month and veretimes for different piece. for each month, and variations for different plate speeds and stops in the most simple form for immediate application. For local and general variations, in light exposure meters are invaluable. Several excellent meters no larger than a small watch) are on the market—notably, Watkin's meter and Wynne's meter. These also take into account all the other factors mentioned and are perfectly reliable for all

Factors mentioned and are personny transported problems of exposure.

Exposure Meter. (See Exposure.)

Factorial Davelopment is the name applied by Mr. Alfred Watkins to that form of development which depends upon the time of the first appearance of the image in relation to the time of complete development The "factor" is arrived at by dividing the time of total development with a certain developer this is ascertained by trial) by the time of first appearance. Fach developer has therefore a different "factor" and the application of this factor to the time of first appearance with any exposure will give the time when development will be finished. Factorial development renders the production of well developed development renders the production of well developer regatives practically automatic provided the rightactor of the developer is known and the exact time of first appearance of the image correctly noted. A list of factors for all developers is published.

Ferrotypes (the familiar thi-types of the seaside photographer) are positives taken by the wet collodious process on thm iron plate which is coated with brown or black warmsh.

or black varmsh.

or back various.

Ferrotype Plate. A specially prepared this iron plate with a highly enamelled surface. Used us glazing punts. (See Glazing.)

Ferro-Prussiate. (See Blue-Print.)

Film-Pack. (See Flims.)

Film-Pack. (See Films.)

Films offer inany advantages over glass plates on the score of hightness and convenience in carrying. Their disadvantages are that they are not so rapid as the quagests plates and they do not keep so well. The flexible support which forms the base of films is made of celluloid. This is coated with sensitive emulsion similar to that on glass dry-plates. All nuclem makes of films are what are termed "non-curling," *1.6. they do not curl when placed in the developing solution and they dry comparatively flat. This is effected by a coating of thin colouriess gelatine on the reverse side of the him to counteract the "pull" of the emulsion. Films are obtainable in three forms: (1) Roll-films in a continuous band wound with a black paper backing round a wooden spool which fits a receptacle in the camera. The end of the film, with its black paper backing round a wooden spool which fits a receptacle in the camera. The end of the film, with its black paper backing is passed across the back of and inside in the camera. I he end of the him, with its black paper backing is passed across the back of and inside the camera on to another spool on the other side Sufficient film is wound off for the picture to be taken on it, the exposed portion is then wound forward again and a new unexposed portion takes its place.
In this way a dozen pictures can be taken on one
length of film which is finally wound entirely on the length of film which is finally wound entirely on the second spool. It can be removed from the camera in bright daylight and replaced with a new spool or cartridge of unexposed film. (2) "Film packs," in which a dozen films cut to size are ingentiously assembled and changed one after the other after exposure from the front to the back of the holder by pulling out paper tabs. (3) "Cut films," which are supplied in packets like plates and are loaded into dark slides or holders, and exposed in a similar manner to plates. The development of cut films and follow true films are the research to difficulty. They man films from film-packs present no difficulty. They may

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be treated separately and developed in a dish like plates, or in special tanks made for the purpose, or, what is perhaps best of all, they may be developed, a dozen or more at a time, in a large deep dish full of diluted developer. They should first be soaked in plain water (in the dark-room of course) until limp, and then passed into the developer, which may be any standard formula of pyro-soda, metol, hydroquinone, rosimal, amidol, or azol, etc., diluted with twice the normal quantity of water. Films require full exposure to give good negatives, and they must be thoroughly developed. The usual fault with amateur's negatives on films is under-exposure and under-development.

Roll-films are treated somewhat differently. They may be cut into short lengths and developed in a dish or developed in one piece by passing backwards and forwards through a dish of developer, holding one end in each hand and see-sawing up and down, or the best plan is to develop in one of the special developing tanks now on the market for the purpose. When developed, the films are fixed and washed in the same manner as plates and hung up to dry in a good current

manner as plates and hung up to dry in a good current

of air.

Filter Paper and Filtering. Filter paper is specially prepared unsized pure paper used for filtering chemical solutions. For use, the paper should be folded in half, and then across the middle again, opening out to form a cone. This is inserted in a glass funnel (which is placed in the neck of a bottle), and the solution poured in. Filtering can also be accomplished the beginning a small way of cetter wood locately use the terms.

solution poured in. Filtering can also be accomplished by placing a small wad of cotton-wool loosely into the seck of a glass funnel and pouring the liquid through F/6, F/8, F/11, F/16, etc. These symbols appearing on a lens mount indicate the stopy or diaphragm apertures, and bear a relation to the exposure. (See

Disphragm.)
Final Support. (See Carbon Printing.)
Finder. (See Ylew Finder.)
Fish Photography. (See Nature Photo-

Frank.

Fixed Foous. A term applied to a lens when working at a point beyond which objects are in sharp focus. This varies according to the focal length of the lens and its aperture. A short focus lens with fairly small stop may give everything in sharp focus beyond, say 12 or 14 feet, whereas a longer focus lens with a big aperture may not present all objects sharply on the focussing screen until they are 30 or 40 feet away. Everything beyond these distances would, of course, be also in focus, so if the lens is set for this distance, it

be also in focus, so if the lens is set for this distance, it will not require re-focussing for any objects beyond. Objects nearer to the exmera would not be in focus. Fixing is the chemical action which removes from the plate, film, or paper any sensitive salts unacted upon by light or by the developer, thus rendering the negative or maintain the developer, thus rendering the negative or maintain the developer, thus rendering the sold—commonly called Hypo—is the chemical generally used for the purpose. The average strength of the fixing bath for plates is:—

Fixing.)
Flare and Flare Spot. An optical defect due sometimes to the bright edges of the stops producing internal reflections in a lens. It shows itself in the developed plate in the shape of a circular an expenten.
Flash Light is one of the most useful forms of artificial lighting for portraiture at night, as it needs no costly apparatus and can be accomplished satisfactorily by any amateur. Flash light is produced by the rapid burning of magnesium, either alone or in conjunction with some other substance rich in oxygen, such as chlorate of potash. If burnt alone it may be fired in a reservoir lamp, in which case the magnesium powder is driven through a methylated spirit fiame by air pressure with a ball and tube; if a mixture is used it must not be fired in an enclosed lamp or an explosion

may occur. As the mixtures are best—giving the brightest and quickest flash, a lamp may be dispensed with altogether (although there are several excellent ones on the market specially constructed for the purpose). The flash mixture may be fired on a the tray or tile, and is ignited by the application of a lighted match or taper or by placing it on a train of touch-paper or gun-cotton. A reliable flash-light muture is made as follows:—

Chlorate of potash . . . 60 grains.

Magnesium powder . . . 90 grains.

Chlorate of potash 60 grains.

Magnesium powder 30 grains.
Sulphide of antimony 10 grains.
Sulphide of antimony 10 grains.
The ingredients should he dried and sifted sparestly, and then mixed carefully with a feather or spill of paper. Avoid friction with any hard substance, or the mixture may explode. The best position of the light for flash-light portrature is fairly light at an angle of \$\frac{1}{2}\$ with the sitter's head, and about on the same plane, or a little in front of the camera. Sheld the lens from the light. Focussing can be done by means of a light held near the satter's face. All lights in the room may be kept burning during the actual exposure, provided none are shaining direct into the lens. The lens does not need to be capped, as the exposure is nade by the flash itself. The smoke that arises after the flash can be quickly cleared by opening doors and windows to not need to be capped, as the exposure is made by the flash itself. The smoke that arises after the flash can be quickly cleared by opening doors and windows to creates draught. A bigger light or two placed apart should be used for a large room or group. The quantities of flash powder necessary for correct exposure varies with the speed of the plate, stop, colour and distance of subject. As a guide, it will be found that with lens at F/B, rapid plate, sitter in light clothes at 5 feet from light, 12 grains will be 'unficient, at 10 feet 30 grains, at 15 feet 70 grains, at 20 feet 100 prains. grains.

grains.

Focal length, focus, or equivalent focus. The focal length of a lens is the distance from the ground glass (or tocal plane) to a point in the lens when a very distant object is in sharp focus. This point is, roughly, midway between the combinations, in a doublet or the centre of the lens itself if a single lens. When the focal length of a lens has been correctly ascertained the exact apertures of the stops may be measured and their values determined, if they are not already marked. (See Angle of Yiew and Angle of Lens.)

Focal plane shutter is the name given to they of high-speed shutter that works directly in front of the plate, inside the camera, or at the focal plane. It is actuated by spring rollers and consists of an

of the plate, inside the camera, or at the local plane, the sactuated by spring rollers and consists of an opaque bind that rapidly winds on one roller at the bottom of the shutter as it un-inds at the top. In the centre of the blind is an adjustable opening or sit—
this can be made wide or narrow at will. The speed of
the shutter and the exposure of the plate depend upon
the tension of the spring rollers and the width of the
slit in the blind. With a very narrow sit and a high
tension it is possible to make the blind travel across the
surface of the plate at a great speed, exposing on one
portion for 1/1000 second only. The focal plane shutter
to of high efficiency and speed for speed passes more
light to the plate than any other type.

Focussing coreen of a stand camera. It is most conveniently made of black velvet or silicia or mackintosh
cloth. The last is perhaps best as the camera can be
protected with it is wet weather.

Focussing Soals. This is the engraved scale of
distances that is affixed to most hand cameras and
other cameras in which the picture is not focussed on centre of the blind is an adjustable opening or sht-

distances that is affixed to most hand cameras and other cameras in which the picture is not focussed on the ground-glass, screen. Its function is to serve as a guide for the position of the camera front or least so thaning sharp focus. The scale is usually marked in distances of feet or yards, and when the pounter attached to the camera front or lens is opposite any marked distance, objects are that distance will be in elarpy focus in the resulting photograph. To make a focussing scale for a camera, the hest plan is to adopt a practical test. First fix the pointer securely on the side of the camera front or other movable position to which the lens is attached; fit a focussing screen to the back of the camera and carefully focus a very distant object—e.g. a distant church spire. Now make a mark where the pointer comes and call this "Infinity."

This will be the point beyond which all objects will be in focus (the lens should be used for these trials at full sperture). Now carefully focus an object so yards saway and make a second mark Repeat the process for objects at so yards, 15 yards, 16 yards, 2 yards, 17 yards, 2 yards, 18 yards, 2 yards, 2 yards, and 1 yard. Regard these, for practical purposes, as paces. The marks madewhere the pointer indicates these distances can be permanently indented in the woodwork of the camera, or they can be expressed on a small strip of

marks malewhere the pointer indicates these distances can be permanently indented in the woodwork of the camera, or they can be engraved on a small strip of lover that can be screwed to the camera's side exactly over the original marks. For future use it is only necessary to set the pointer to any distance at which the object may be from the camera, and there will be no necessity for any other focussing.

Focussing Screen, the ground glass at the back of the camera upon which the image formed by the lams is seen. The focussing screen, although fitted to most cameras, is not used much by the hand-camera worker and "suap-shotter," who prefers to rely upon the focussing scale or scale of distances engraved upon the base board or side of the camera. For the worker with a tripod camera the focussing screen is a necessity, and the sharpness and composition of the picture is seen upon it. Oiling the screen renders the grain less visible, and a substitute for a shocken focussing screen can be improvised out of a wethandkerchief or sheet of thin paper, a fogged, developed, fixed and washed plate, or a piece of plain glass dabbed over with putty.

Fog is the commonest of all faults in negative making. It appears as a veil all over the plate, in dark patches here and there, or as streaks from one comer or another. All these may be due to accidental exposure to light other than through the lens,—to faulty apparatus and light leakage at corners of dark slides, etc. When log has occurred in the camera the edges of the plate protected by the rebates of the dark slide will remain clear. If fog occurs through faulty dark-room light the plate will be fogged all over. Chemical fog may also produce a similar effect all over the plate. This may occur by forcing the developer.

similar enect all over the piace. Inis may occur by forcing the development or the presence of too much alkali in the developer.

Formalitin, a 40 per cent, solution of formic aldehyde in water. It possesses the property of hardening gelatine, and rouders it insoluble. It valuable in the prevention of frilling which sometimes occurs with plates and papers in hot weather. A little may be added to the filling bath.

French Chalk, used for polishing class or forrotype plates when glazing prints. (See Enamelling and Glazing.)

Frilling. Negatives and prints are said to frill when the film leaves its support at the edges. Occurs most frequently in hot weather. A solution of alum or a little formalin in water will prevent the frilling spreading. A bath of mothylated spirit applied to the negative or print after washing will reduce the frilling and cause the gelatine to contract to its original size. In this condition it can be carefully replaced in its In this condition it can be carefully replaced in its original position, and when dry will show no marks. If plates show a tendency to frill and no alum or formalin is obtainable, a wax or tallow candle rubbed round the adges before development will keep the solutions from

these parts altogether.

Gelatine, an animal substance obtained by bolling bones, hooks, horns and other animal matter. Used in the production of photographic emulsions and for coating plates and papers for various photographic processes.

Gelatino-Chloride Emulsion Paper. (See

"P.O.P.")
Glasting or Glossing prints. The production of Glasting or Glossing prints. The production of a high glaze or gloss on photographs is accomplished by "burnishing" (p.v.), "enamelling" (p.v.), or, in the case of gelatine-surfaced prints (i.e. gelatine-chloride, P.O.P., bromide and gaslight papers, etc.), by squeegeing the prints in a wet condition into optical contact with a perfectly clean piece of glass, or ferrotype plate. The glass should be thoroughly cleaned and washed to remove all trace of grease, etc., and then polished with a little French chalked well rubbed in. The wet print face downwards is brought into contact with the glass plate under water, withdrawm and well squeegeed to remove all air bubbles between the surfaces. A piece of paper on the back of the print will protect it from abrasion. When quite dry, the print will peel of with a highly glazed.

Glycerine is obtained from oils and fats as a bye-product in saponification. It is used as a preservative of pyro and is used as a physical restrainer in various loping processes.

Glycin. A clean-acting developer, somewhat slow in action, but well suited for stand or tank develop-

ment  $(q,v_*)$ .
Gold Toning. (See Toning and Chloride of Gold.)

Gold.)

Gum-Bichromate. A printing process in which pigment mixed with guin arabic in water and a certain amount of bichromate of potassium. The mixture is spread on paper and when dry is exposed under a negative. The picture is then "developed" by soaking in water until the unexposed portrons of the pigmented gum are sufficiently washed away. The exposed portions (i.e., the shadows and half-tones of the picture) are rendered insoluble by exposure to light and remain on the paper. A considerable amount of local manipular on the paper. A considerable amount of local manipula-tion and control can be effected with this process, as-the image can be worked upon and reduced with a brush, and at the same time repeated coatings and printings will give any extra density to the shadows-or other portions of the picture. Printings in different colours can also be resorted to.

The sensitive coating is made as follows :-

g. Clear white gum . . . . . 4 ozs.
Water . . . . . . . . . . . . 6 ozs.
Soak till dissolved and squeeze the mucilage through

fine muslin. b. Bichromate of potash . . . 1 oz.
Water . . . . . . . . . . . . 9 oz

Backing.
Half-Plate, a photographic size, 64 × 42. (See-

H. and D. An abbreviation of "Hurter and M. and D. An appreviation of "nurrer and of plate-speeds. These initials, accompanied by anumber, seen on a box of plates, indicate that the speed of the plates has been calculated according to the sensitometric scales of Hurter and Driffield, and are comparable one with another. Thus a plate marked "H and D 200," is twice as fast as one marked. "H and I' mo.

Hand damera is the name usually applied to any camera that can be effectively used in the hand, and for which a tripod or other support is unnecessary. This fact alone points to the need of an instantaneous abutter, as it is difficult to give a "time" exposure

when merely holding the camera in the hands. Exposures of half a second can, however, be easily given by holding the breath during the release of the shutter. Any camera of the type usually associated with a stand or tripod can, if fitted with an instantaneous shutter, view finder, and focussing scale, be used quite well as a hand camera. The essentials of a good hand camera are uportability, readiness for use, a reliable and silent shutter, rapid lens, quick and certain plate-changing arrangement (either changing box, magazine, or dark sidies), a good view-finder, and unobtusiveness in appearance. Hand cameras are of many types, e.g., box-form, folding, small folding pocket-cameras, focal plane folding, and reflex (g w). (Also see Instantaneous Photography and Camera.)

High-Lights. The birghtest parts of a picture, which are represented by the greatest density or opacity in the negative, as the face in portraits, the sky, and other bright portions in a landscape.

Howard Farmer Reducer. (See Reduction.)

Howard Farmer Reducer. (See Reduction.)
Hydrochlorio &cid. A strong corrosive funing
acid used in dilute form as a clearing bath for platinotypes and in other photographic formulae. The yellow
"spirits of salts" can be used for cleaning bottles and measures, etc.

Hydroquinone, known also as hydrokinone, hydrochinone, and quinol. A useful developing agent giving negatives of Rean black and white character. A good one-solution formula is:—

quinone works best in combination with metal, unless great contrasts are required, for which purpose (especially when copying black and white subjects) it is specially suited. (See Matel-Hydroquinone.)

Hype, an abbreviation of hyposulphite of soda. (See Fine.).
Hype Eliminator. The best hype eliminator is water. Negative and prints should it possible be well washed in at least twelve changes of clean water affec. fixing in the hypo bath, or placed in running water for fixing in the hypo bath, or placed in running water for an hour. Allowing them to soak in plain water will not remove the hypo. To hasten the removal of hypo when time is short or when on tour various chemicals have been suggested such as potassium percarbonate. To use this effectively, riuse the plate after fixing-cover with clean water and add three to five grains of the potassium for every quarter-plate. As soon as the flquid cease, o effervesce remove and riuse in clean water for a few minutes. "Anthion" and "Hypono" are two good commercial hypo, eliminators. (See Washing.)

are two good commercial hypo, eliminators. (See Washing.)

Instantaneous or Snapshot Photography is the term applied to that phase of camera work in which pictures of moving objects are taken in a fraction of a second by means of "instantaneous shutters." These are placed either on the front of the lens, between the components of the lens, between the components of the lens, between the components of the lens, between should be decided the property of the lens, between should be decided. The first are called "before-lens" shutters and are usually of the roller-blind "time and instantaneous" type, the second are called "diaphragmatic shutters," and are usually of metal with thin blades that open and shut in the centre of the lens, the third are called "behind-lens" shutters and are similar in construction to the first, and the last are called "focal-plane" shutters (g.v.). Secess in instantaneous photography depends largely upon correct exposure at the right moment so as to catch the moving object in the right moment so as to catch the moving objects has first to be considered. An engine trossing he line of view at right angles at 30 miles an hour needs a much quicker exposure than when it approaches the photographer at an angle or nearly end on. Again, the exposure necessary for a galloping horse does not depend on his rate of progression, but upon the rate of progression plus the rapid local wevements of the legs. An appreciation of these

points is rapidly gained by experience, and allowance

points is rapidly gained by experience, and allowance made when making the exposure.

The essentials to be considered when dealing with high-speld work with the camera are: (1) good light, (2) a rapid plate, (3) a reliable instantaneous shutter, (4) a lens working at a large aperture, (5) as full an exposure as is consistent with the movement of the subject, and finally (6) careful development in dilute developer. The rule for ascertaining the required exposure for any moving object is as follows: Divide the distance of the object from the camera (measured in inches) by the number of yards per hour at which the object is travelling multiplied by the focus of the lens. Thus, if an object is no feet from the camera and the focal length of the lens is 5 inches and the object some gain at 20 miles an hour, the for ulal is:

Too (feet) 1,200 (inches) 1,200

zoo (feet) 1,200 (inches) 1,200  $\frac{100 \text{ (feet)}}{20 \text{ (miles)} \times 6} = \frac{1,200 \text{ (miles)}}{35,200 \text{ (yards)} \times 6}$ 

The following table will be found an approximate guide for snap-shot work, assuming the object to be about so feet distant:

Street wasse with

Street scenes with people walking 

be shortened, if further away it may be lengthened.

The development of instantaneous exposures calls The development of instantaneous exposures calls for careful treatment and the plates can generally be regarded as under exposed. Dilute developer with additional alkali is recommended, and care should be taken to shield the plate from the dark-room light during the prolonged development. (See Developers and Development and Hand Cameras.)

and Development and Hand Cameras.)

Intensification is the means employed for increasing the deposit or printing density of a negative. The most generally used method is the application of a solution of mercuric chloride and a subsequent darkening. To mensify a negative it is essential that it has been thoroughly fixed and washed. The mercuric solution is made up as follows:

Mercuric chloride. **J. **. **sparts**. Hydrochloric acid ... **z parts**. Hydrochloric acid ... **z part**. The image completely bleaches in this. When the negative is white right through to the back it is well washed and immersed in ... **sparts**.

Sodium sulphite . . . . . r part. Water . . . . . . 6 parts.

are several other methods of intensification, such as the use of uranium, lead or silver, but the above is most generally useful for all purposes

Isochromatio. (See: Orthochromatic.)

Japine. A special kind of platinotype paper with a very fine surface. (See Platinotype.)

Kallitype. A printing process in which iron and silver salts are used. To make:—First size the paper, which may be any nurse good respect.

Water Potass. bichromate solution (s grs. per oz. of water) . . 45 to 60 mims.

This produces fine black tones. After development, immerse prints in a ro per cent. solution of Rochelle salts, and then in a r per cent. solution of ammonia 880. Wash and dry.

Wash and dry.

**Einematograph**, (See Cinematograph**)

**Labels** for bottles in the dark room are best made from stout white paper, on which the names of the contents of the bottles are plainly written in waterproof black ink. If the bottles contain developers, toners, or other made-up solutions, the formula should be written on the label also. The labels should be firmly stuck to the bottle with good paste, and then sized and varnished. The solutions should always be poured out of the bottle on the side opposite to the label. This will prevent the chemical, that may run down the side, staining the label ing the label

Landscape Lens is the term sometimes applied to a "single" lens. It is used with a fairly small stop to give good definition, owing to its lack of correction.

to give good definition, owing to its lack of correction, but gives a brilliant image.

Lantern. The lantern as used in photography may be either the (1) "optical" lantern (the modern equivalent and development of the "magic" lantern, (2) The enlarging lantern or enlarge (2-0.). Both are similar in general construction and principles, and consist essentially of a lantern body made of metal or wood lined with metal, an illuminant linide the lantern wood lined with metal, an illuminant fuside the lantern body, a condenser (2, x) in front of the illuminant to collect and condense all the available light, a carrier or stage for holding the lantern slide, transparency or negative in position, an objective or projection lens in front. Adjustments are fincluded for altering the relative positions of the light and lens, and the image (i.e., the lantern slide or negative) illuminated by the light conning through the condenser is projected by the front lens on to an easel or screen in front. The size of the image or picture thrown on to the screen depends upon the distance the screen is from the front lens. The further away it is the larger the picture will lens. The further away it is the larger the picture will be, and vice versa. The alteration of the distance of be, and wee verva. The alteration of the distance of the screen will nocessitate adjustment of the distance of the light from the lens. The light is centred (i.e., made to give a clear white disc on the screen) burnoving it up or down or to right or left, or nearer or further away from the condenser. A combination of these movements will ensure the correct position being attained at which the best light is given.

Lantern Slides are small positive transparencies on glass, usually 3 by 3 inches, and are made by contact or reduction from negatives. These little pictures are projected by means of an optical lantern on to a white sheet or screen and appear enlarged a

on to a white sheet or screen and appear enlarged a great many tunes their original size. The preparation of lantern slides needs careful technical accuracy in of lantern slides needs careful technical accuracy in view of their subsequent enormous enlargement. The slides are made on commercially prepared lantern plates. These plates are coated with a fine sliver-thloride emulsion and are either "rapid," for black and white tones, or "slow" (gaslight) for warm tones. The former can be used for reduction from large negatives by means of a reducing camera as well as for contact; the latter are generally used for contact only. For contact printing the plates are exposed behind a negative in a printing frame the same as when making a bromide or gaslight print. Exposure varies according to the speed of the plate, density of the negative, and intensity of the light. Correct exposure is found by trial, but is about the same as for brounde or gaslight papers respectively (p.v.). After exposure the plates are developed in developers similar to those for bromide or gaslight papers or other formulæ may be used. Hydroquimone developer (p.v.), restrained with ammonium bromide, not a ammonium carbonate, will give a great range of tones from sepia to red according to the amount of over-exposure. Pyro developer also gives good brown tones. Full instructions will be found with each box of plates. Lantern sides, when developed, heed, washed, and dried, are bound up in contact with a "cover-glass." This is a piece of thin clear glass, same size as the slide, and is bound to it by thin strips of gummed paper or linen stick view of their subsequent enormous enlargement. thin clear glass, same size as the slide, and is bound to it by thin strips of gumnied paper or linen stuck longways round the edges holding the two together. A cut-out mask of black paper is held between the

two showing only the required portion of the picture. Two white spots are placed on the front of the slide at the two top corners. This enables the lanternist to tell which is the right way up when placing the slides in the lantern carrier in semi-darkness.

Latent Image. The invisible image impressed upon the silver salts in the emulsion on a dry plate or bromide paper, etc., and brought into visibility by means of a developer.

Lens. This is probably the most important part of the photographers outfit, and enables the image to be formed on the sensitive dry plate in the camera.

formed on the sensitive dry plate in the camera. Photographic lenses are of various types, from the single or landscape lens to the more complex modern anastigmat (g.v.), and telephoto lens. The better the lens the more highly at has been corrected for aberra-tions. Lens ab-trations indicate some departure from the ideal performance of the instrument, and may be "chromatic," "spherical," "distortion," "curvature of field," or "astigmatisin," etc. (2 v). (See also Appar-tures.) Great care should be taken of a good lens to preserve it from scratz...s. the highly-polished surfaces are easily abraded, and the quality of the lens then suffices. (See Fog.) Light-Fog. (See Fog.) Light Filters. These are of coloured glass or gelatine, and are employed to cut out or block certain rays of light when using colour seeghtwe plates. Called lens the more highly it has been corrected for aberra-

rays of light when using colour soft three plates. Called also colour-screens, ortho, while socreens, and ray-filters. (See Orthochromatic photography.) When used to filter the light from a dark-room lamp, they are usually termed "safelights" (q v.).

Magazine Camera. A form of hand camera containing a magazine of plates (in metal sheaths) at the back. They are changed automatically by pressing a lever outside the camera.

a lever outside the camera.

Magnesium. (See Flashlight.)
Magnifier. (See Supplementary Lens.)
Magnifier. (See Supplementary Lens.)
Magnifier. (See Supplementary Lens.)
Masks and Discs. Masks are pieces of black paper the same size as a negative, with a square, round, oval, or oblong opening cut in its middle. Placed between the negative and sensitive pager when printing, the mask protects the covered parts from light action, and they remain white. A portrait can thus be masked out of a group. The plece cut out of the middle of the black paper is called a disc, and if placed on the portrait or other portroin hat has been printed through the mask, will permit the surrounding white paper to print to a suitable thir Cut-out black paper masks are also used in lantern sides (g.w.). (See also Gombination Printing.)

paper masks are also used in lantern sindes (g.v.). (See also Gombination Printing.)

Matt Surface Paper. The term applied to printing papers that are not glossy surfaced, but are not absolutely rough in texture.

Matt Varnish. (See Varnish.)

Menisous. A term applied to a lens that is concave-convex in form

Mercurior Chloride. (See Intensification.)

Methylated Spirit. Used in photography principally for the purpose of quickly drying negatives and prints. If these are placed in methylated spirit for five ten minutes after leaving the washing water, and then set up in a current of air or in front of a fire, they will dry in a few numues.

m a tew minutes.

Matol. A quick-acting developer, highly suitable for instantaneous exposures, develops shadow detail without rendering high lights too dense. Produces negatives soft in quality; also suitable for bromide and gaslight papers and lantern slides. A good formula is:—

a. Metol . 

Sulphite of soda 12 oz.
Water 10 oz.
b. Carbonate of soda 11 oz.
Brouide of potash 8 grs.
Water 10 oz.
Water 10 oz.
Brouide of potash 10 oz.
Water 10 oz.
Use equal parts of each.
Metol-Hydroquine, known also as Metol-Quinol or McQ, an ideal combination of developers for all round work combining the detail giving qualities of metol with the density producing characteristics of hydroquinone. Suitable for negatives, lantern sildes.

and bromide and gaslight papers. A reliable formula

a. Metol . . . . . . . . . . 40 grains. Bromide of potash . . . 15 "
Water to . . . . 20 075.

e b. Carbonate of soda . . . . . 102.
Water to . . . . 20 025.
Use equal parts of a and b mixed for normal xposure. For over-exposure decrease the proportion of h and edd a few decree of verse cent reduction of

amposure. of J and add a few drops of to per cent. solution of bromide of potash. For under-exposure increase and ditte with equal bulk of water.

Mountant. There are several forms of pastes and

Take:-

ike:-Best white destrine . . . . . . . r lb.
Cold water sufficient to make smooth stiff paste.

Add water . . . . . . 10 ozs.
Oil of wintergreen or cloves . . . . z dram.
Mix the dextrine and water together until quite clear

Oil of wintergreen or cloves . . . . a dram.

Mix the dextrine and water together until quite clear
of lumps, add the further quantity of water, then the
oil, and then bring the whole mixture to the boil, when
it should be like clear gum. Pour into pots, cover up,
and in from twelve to twenty-four hours it will set to
a hard white paste that can be spread easily on backs of
prints, etc., with the finger or a brush.

Mounting and Mounts. Mounting is the
operation of affixing photographs to suitable mounts
by means of an adhesive. Prints mounted wet are apt
to cocklewand bend the mounts unless specually pressed
and flattened when dry. With larger sizes this tendency
to curl can be counteracted by pasting another piece
of wet paper to the back of the mount. Mounting the
print dry is generally best. It can be pasted all over
the back and applied carefully to the correct position
on the mount (marked with a fine-pointed pencil beforehand—a dot for each corner), or it can be mounted by
applying the adhesive to one edge only. A strong
dextrine mountant or fish glue is best for this pupoose.
Thick neutral-coloured "art" papers are largely used
for mounts, and a series of two, three, or four of these,
showing a thin line of tint one under another, can be
built up into a very effective surround for the picture.
This is termed multiple-mounting, (See also Drymounting.)

M. O. An abbreviation for "Metol Quinol" or

mounting.)

M. Q. An abbreviation for "Metol Quinol" or **M.Q.** An abbreviation for "Metol Quinol" or metal hydroquinone developer  $(q,v_*)$  **Muriatic Acid.** Another name for hydrochloric

Muriatic Acid. Another name for hydrochloric acid.

Nature Photography. The phofigraphy of animals, birds, fishes, insects, plants and geological subjects may be included under this heading. A camera with long extension and great rigidity is needed. A reflex camera is specially adapted for birds and animals. A tens of largo aperture is necessary and a silent shutter is essential. Rapid plates (orthochronatic preferred) and a great store of patience are also required. Animals and birds may be stalked in their nature surroundings and the photographis thus secured after careful watching and waiting are more valuable from the natural history point of view than when the subjects are photographied in captivity. Flabes are generally photographed in glass tanks with back and front very close together—practically holding the fish in position. The longest possible exposure that the subject permits should be given in nature photography, to secure all detail.

Negative is the term applied to the glass plate or film on which picture appears, but with the lights and shadows reversed. A negative is produced either in the camera by direct action of light through the lens or

by printing in a frame from a positive. (See Exposure and Development.)

Negative Storing. Boxes with grooved interiors are sold specially for storing glass negatives. Film negatives may be stored in envelopes, and books of envelopes are supplied by dealers for the purpose. Glass negatives may also be stored in paper begs (obtainable from the photo-dealer) and kept in sets or series in boxes with all particulars written outside. Another convenient method of storing large quantities is to keep the negatives (in twos, film to film) in their original plate boxes, marking the outside of each box with a distinctive catalogue number for easy reference to the contents. The boxes should be stored standing on edge and not flat.

Nitrio Acid, called also "aquafortis." A corresive.

Potassium bichromate . . . 1 oz.
Water . . . . . . . . 20 ozs.
for one minute. Drain and dry in dark.

Or a spirit sensitiser composed of:—
Ammonium bichromate . . . roo grs.

Or a spirit sensitiser composed of:—
Ammonium bichromate... ron grs.
Sodium carbonate... ron grs.
Sodium carbonate... 10 grs.
Water... 4025.
One part of this is mixed with two parts of alcohol and applied with a Blanclard brush (p.w.).
Printing takes about one-sixth the time necessary for P.O.P. After printing wast in cold water for half an hour. The print can then be dried (sooking it again when required) or pigmented at once. Pigmenting is conducted by laying the print face unwards on a pad of wet blotting paper. Remove surface moisture with fluffless blotting paper or a damp rag Spread some of the pigment [sold specially prepared for the process) on a piece of glass or a palette. Dab one of the specially made fitch or hog-hair brushes on the pigment mutil evenly distributed. Then with a "dabbing action" apply it to the print. Apply only a little pigment at first, increasing it as the image grows. Continue to apply the pigment until the picture is complete. A "hopping" action of the brush will take the pigment off. A "pressing" action will make it adhere. Thunning the pigment with a little boiled-oil or niegipli will make it take more readily everywhere. In the production of prints in this process and also in Bromail (e.g.) control of local trons or intte boiled-oil or inegup will make it take more readily everywhere. In the production of prints in this process and also in Bronoil (g.w.) control of local tones or gradations can be easily accomplished. High lights can be cleaned up, shadows can be strengthened, details can be subdued or removed entirely, and in skilful hands a good composition can be made from a negative that would not yield a passable print in any "straight" process.

negative that would not yield a passaule print in may "straight" process.

Optical Content. An expression used to indicate the cohesion of two surfaces with no air spaces between. When a print is squeegeed on to glass and all air-bubbles are pressed out, it is said to be in a straight or the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of th

optical contact. .

Optical Lantern. (See Lantern.) Optical Lantern. (See Lantern.) Orthochromatic, or Isochromatic, means "colour correct." The term is applied to dry-plates that are more sensitive to yellow and green than the ordinary plates. As they are still very sensitive to

blue and ultra-violet, a yellow screen or light-filter must be used with them to cut these rays out. The "ortho" plate used in conjunction with a yellow screen will give a comparatively colour-correct remaring of a will give a comparatively colour-correct rendering of a landscape with clouds, or any other natural scene. "Ortho" plates must be developed in a deep ruby light, as the ordinary dark-room light will generally prove too actuals for their extra sensitiveness to colour. In other respects the treatment for "ortho" plates is the same as for ordinary plates. The "orthochromatic" screens or light-filters are made of yellow glass, with optically worked surfaces, or stained gelatine film. The screen is used either in front or behind the lens, and increases the exposure twice, five, or ten times.

and increases the exposure twice, five, or ten times, etc., according to the depth of colour.

Ortol. A developer for plates, films, and bromide and gaslight papers. It gives an image of goodsdensity and colour. A usclul formula is:—

(a)	Ortol	:		-					70	grains
٠.	Ortol	u	lp	hi	te		:		35	grains
	Water								10	0.78
` (b)	Carbonate of soda		٠	٠	٠	٠	٠	٠	11	oz.
	Sulplute of soda	٠	٠	٠	٠	٠	٠	٠	Ιŧ	oz.
	Water	:	•	•	٠	•	:	•	10	ozs.

Use at oz., b t oz., water t oz.

Owar-Exposure. When a plate has been exposed in the camera for a longer period than would be necessary to give a good negative with all gradations reproducing the original, it is said to be over-exposed. An over-exposed negative is flat and lacking in con-trast, but with plenty of cletail. It may be remedted

sometimes by intensification (q.v.).

Ozobrome is a method of making carbon prints Ozobrome is a method of making carbon prints from bronnide prints or enlargements without the action of light. One bromide print may be used to make several ozobromes if required. There are two methods of procedure. The first process consists in placing the bromide print or enlargement in a dish of plan cold water, then immerse a piece of "pigment plaster"—similar to carbon tissue—in the special pigmenting solution supplied for the process. When the pigment plaster is well saturated (about three minutes) take out and place for a few seconds in a bath of hydrochloric and the present solutions are supplied to the process. minutes) taxe out and place for a rew seconds in a paid of hydrochloric acid (to per cent, solution) r.oz., water 25 ozs. Drain and then bring into contact—face to face—with the bromide print soaking in the plain water. Withdraw them together from the water and squeegee on a hard surface. Leave for twenty minutes, then develop in warmayater (tog's to rio' F.). Strip off the plaster backing and the cruton image will develop the new terms of the plaster backing and the cruton image will develop the new terms of the plaster backing and the cruton image will develop like an ordinary carbon print, but with the bleached bromide print as a base. This bleached silver image can be entirely removed now by means of a hypo bath. Wash the prant and dry.

Wash the print and dry.

The second process is similar to the first up to the squeegeeing of the pigment plaster to the bromide print. After remaining in contact for twenty minutes, place them in cold water and strip off the bleached bromide print. Then bring the pigment plaster into contact with a piece of carbon transfer paper which has been previously well soaked in water. Squeegee together, place under slight pressure for twenty minutes, and develop in hot water (rog to 110° F.) as for an ordinary carbon print (q,v). The bromide print can be used over and over again for other ozobromes, or redeveloped and kert in its original condition.

or redeveloped and kept in its original condition.

Panchromatic applied to dry plates, means sensitive to all colours of the spectrum as distinguished from orthochromatic (q.v.).

Panoramio Camera. A specially constructed camera for taking panoramic views.

Paper Negatives are useful in making enlarge-

Paper Negatives are useful in making enlargements. They are on specially prepared, nearly grainless, thin paper, coa'ed with dry-plate (slow) emulsion. Paper negatives are developed in this same manner as ordinary glass negatives or othes. Thin bromide paper may be used for making negatives for enlargements, but is too slow for exposures in the camera. If the grain of the paper shows it may be obviated and the paper rendered more translucent by rubbing in meltod parafin wax or vaseline.

Papler Minéral. A fine tracing paper, very translucent and used for affixing to the backs of negatives for working upon in pencil or crayon.

Para-amidophenol. (See Rodinal.)

Para-amidophenol. (See Rodinal.)

Parase (See Weights and Measures.)

Passe Partout. A form of finishing prints for exhibition by binding them by the edges to a piece of glass cut to the same size as the mount. An effective and economical form of framing. A backboard is used to prevent damage to the back of the print, and rings are fixed to the backboard to hang the picture up. The binding strips may be paper or coloured tape and are stuck on with gum, glue, or paste.

Paste. (See Mountants.)

Paste. Enoaustic. (See Encaustic Paste.)

Photo Aquatint. A term applied originally to a form of photogravure and, then to the gumbleliromate process (q.w.).

Phosphate Paper. A printing paper with an emulsion of silver phosphate. It is used in gaslight both for manipulation, exposure, and development. Development is physical in character and prints can be produced with gr-at rapidity.

Photo Moter. A nester for measuring the strength of licht. (See Expensive Mercause.)

Fhoto Mater. A meter for measuring the strength of light. (See Exposure Mater.)
Photo-micrography is the process of obtaining photographic enlargements of microscopic objects by the aid of the microscope used in conjuction with a

Photo-telegraphy. A new application of photography by means of which photographs can be transmitted over long distances by electrical means. The telephone line is usually employed and expensents in "wiceless" transmission of photographs have also proved successful.

also proved successful.

Pigment Processes. The various printing processes used in photography in which a pigment is incorporated or otherwise used in conjunction with some colloid which is rendered sensitive to light by chemical action. (See Carbon, Gum Bichromata, Bromoil, Oil-Printing, Ozobroma, etc.)

Pinhole Photography. Taking photographs by means of a camera with a pinhole instead of a lens. The pinhole is made with a pin or needle in a piece of thinmetal (thin sheet brass answers well). The edges of the hole nust be clean and free from Durr. No focussing is necessary as the image is always in focus

focussing is necessary as the image is always in focus and the size of the picture depends only on the camera extension. The exposure varies according to the size of the hole which depends on the diameter of the needle that made it. It is roughly thirty to one hundred times the ordinary exposure.

Pinhoies are small transparent spots that occur

EMMANES are small transparent spots that OCCUP in negatives, and may be due to dust settling on the plate while in the dark slide or during exposure. They are also sometimes due to minute air-bubbles in the developer. They can be stopped out with a little water colour paint applied with the fine-point of a small sable brush. sable brush.

Plate-sunk Mount. A term applied to a photo-graphic mount with an indented centre—on which the print is mounted-an imitation of the plate-mark round

an engraving

Platino-Bromide, A name applied to a certain type of behande paper with a surface approximately resembling a smooth platinoty be print, which is further initiated by the colour and tone of the print when developed. Called also Platino-many

developed. Called also Platino-matt.

Platinotype. A beautuful printing process in which iron and platinum salks are utilised. The pictures obtained are in pure platinum and are absolutely permanent. The paper as sold is of a yellowish colour on the coated side. This is exposed under a negative in a printing frame and exposed to daylight until all details are just visible in a brownish tint on the yellow ground. The image is developed by placing the print in a solution of potassium oxalate (t in 6 approximately or in developer specially prepared by the makers of the paper. This gives perfect black tones. A different paper is supplied for sepila tones and is developed in a hot bath of oxalate solution to parts, saturated solution coalic acid z part. Used at 150 to 150 F.

After development the prints are cleared and fined in several successive baths of hydrochloric acid z part, water 60 parts. Finally washed and dried. Platinum appers must be kept in a calcium tube to protect them.

water 60 parts. Finally washed and dried. Platinum papers must be kept in a calcium tube to protect them.

from moisture in the air.

PEARS' CYCLOPAEDIA.

Platinum Toning. (See Toning.)

P. O. P. An abbreviation for Friuting-Out-Paper.

All photographic printing papers that print under a negative in daylight and give a fully visible image are termed printing-out-papers, in contradistinction to development papers, in which the image is invisible or only partly seen after exposure. By P. O. P. is generally understood the gelatino- and collodio-chloride papers and self-toning paper. These papers are exposed under a negative in a printing-frame and examined from time to time in subdued light to note the progress of printing. Printing is conducted in full daylight, but not in direct sunlight, unless the negative is very dense. Printing is carried further (darker) than is required in the finished print. In self-toning papers the printing is carried further still. When printing is complete, the print is ready for toning, after which it is fixed in lippo 3 oza, water a pint, washed thoroughly and dired. (See Toning.)

Portrature by photography is probably the most popular form of camera work, and is the branch that attracts most amateurs—directionals. Successful

Portraiture by photography is probably the most popular form of camera work, and is the branch that attracts most amateurs—although its specual application is confined largely to professionals. Successful pictorial portraiture is conparatively difficult. To achieve something more than a mere singaphot of a person several things have to be considered The background and environment of the figure need careful consideration. These should always be as simple as possible, so as not to detract from the interest of the portrait. (See Background.) The lighting is important. This will make or mar the portrait. The pose should be as natural as possible, and the sitter should not stare at the camera or appear "camera-conscious." Dark shadows, caused by strong top or side light, or by the sitter being too close to the light, can be rectified by reflectors of white material placed on the shadow side, or by translucent muslim diffusers placed between the sitter and the light. The most effective form of lighting for general portrature is a good top side light, not too near, but a little in front of the sitter, A high window facing north, or a sloping skylight answers well. This lighting with a reflector should serve for most portrait studies. Ordinary rooms with a furtly large window can also be used for home portraiture by blocking up the lower half of thes window, and using the upper portion only with the assistance of a reflector to light the shadow side of the window, and using the upper portion only with the assistance of a reflector to light the shadow side of the assistance of a reflector to light the shadow side of the face. Do not put the figure too close to the window or the lighting will be too hard. Long-locus lenses of big aperture are best for portrature. Short-focus lenses give distorted perspective, and small apictures increase the exposure too much. Home portrature can also be accomplished by flashlight (q.w.). Rapid plates (preferably orthochromatic) should always be used for portrature and the largest stop in the lens. A full exposure gives the jest results, and the negatives should be developed with as off-i-ting developer such as metoil (q.w.), rodmal, or a well-diluted pyro-developer with an extra amount of alkali. (See also Retouching.)

Positive is the name auplied to the punt or

Positive is the name applied to the print or transparency made by contact, reduction, or enlargement from a negative.

Potassium Bichromate, a chemical of con-

siderable importance in photography. It is met with commercially in fine orange-red crystals. Dissolves in water, and when incorporated with certain colloids,

in water, and when incorporated with certain collectis, such as gelatine, possesses the property of rendering them insoluble on exposure to light. Is used inhoto-mechanical processes, and colletype, etc. (See Carbon, Gum-bichromate and Oil-process.)

Potassium Bromide, used principally as a restrainer in development, and in emulsion making. As a restrainer it keeps the image clear, and assists in building up contrast and preventing general fog in cases of over-exposure. It is most conveniently used building up contrast and preventing general log in cases of over-exposure. It is most conveniently used as a ten per cent solution in water, s.e., 10 025, of solution contains 1 02, bromide. A few drops are added to the developer.

Potassium Gyanida, used in making the cyanide reducer for negatives. It is a deadly poison and should not be handled more than necessary.

Potassium Ferrigyanide, or Red Prussiate of Potash. Used in the iron or "blue-print" process

(g.v.), also in bromoil and other formulæ. Used in conjunction with hypo in making a useful reducer for negative. (See Reduction, also Toning.)

Potamium Iodida, used in making emulsions

Potassium 100102, used in maxing emissions with silver nitrate.

Potassium Metabisulphite, used as a preservative in pyro and other developers and preventing staming of the gelatine film. Used also m making a non-staining eard fixing bath (q.v.).

Potassium Percarbonate. (See Hypo

Eliminator.)

Potassium Parcarbonate. (See Hypo Eliminator.)

Printing is the process of making a positive from a negative so that an picture is obtained in which the gradations of light and shade are represented as seen in nature. The term is more usually applied to contact work in a punting frame rather than to making enlargements. (See Carbon, Cloud Printing, Bromide. Gaslight paper, Bromoli. Oliprinting, Platinotype, P.O.P., etc.)

Printing Frame. A wooden frame made to hold the negative while making contact prints. The negative while making contact prints. The instead of the frame by a flat wooden back which is hinged in the inhellow of the frame by a flat wooden back which is hinged in the inhellow of the frame. Pyro. The abbreviated name of pyrogallol (sold as pyrogallic acid), an extensively used developing agent. Gives negatives with a tendency to yellow colour according to the formula employed. Sold in light, white, feathery crystals, very soluble in water or in heavier crystals or "tabloids." The earliest formula for a pyro-developer for dry plates was pyro-ammonia. This has been practically discarded nove in favour of pyro-soda, of which the following is a good formula:—

Stock Soluton: 2. pyro-socia, of which the following is a good formula:-

Potassium brounde . . . . . 60 grains. Sodium carbonate . . . . 2 075. Sodium sulphite . . . . . 3 025. Water . . . . . . . . . . 10 uzs. For use take \{a: 3 025, water to make 20 075, b: 5 025 water to make 20 025,

For use take \$\(\text{b}\) i 5 0.5 water to make 20 0.25.

Use equal parts.

Increase the quantity of \$\(\text{b}\) for under-exposure and dilute with more water. For over-exposure increase the proportion of \$a\$ and add no to 20 drops of a 10 per cent. solution of livronide of potash. I you used in conjunction with metol gives a very statisfactory developer. A favourite formula is:—

\$a\$. Metol ... 45 prains.

Potassium metabusulphite ... 120 grains.

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Pyro . . . . . . . . . . . 55 grains. Potassium bromide . . . . 20 grains. Water . . . . . . . . . 20 025.

5. Sodium carbonate . . . 4 025.

Water . . . . . . . . . 20 ozs. For use take equal parts of each. (See also Acetone and Beach's Developer.)

Pyroxyline. I he chemical name for gun-cotton. It is produced by the action of nitric and sulphuric acids on pure cotton wool. It dissolves in a mixture of alcohol and ether, and is then known as collodion. account and etner, and is then known as collection. This is employed as the base for the silver sait in the wet-plate process and in the preparation of collection emulsions. Gun-cotton is also used as a means of rapidly igniting flash-powders. (See Flashlight.)

Quarter-Flate, A photographic size, 4 × 3½ inches. (See Blees.)

nches. (See Sizes)
Quinol. Another name for Hydroquinone (q.v.).
Rembrandt Effect is a term frequently applied to that type of portraiture in which the outline of the features in profile are strongly lighted, while the emainder of the face and the background are in comparative shadow.

Rytol. A concentrated "tabloid" developer of great utility for films, plates, bromide and gaslight papers, and lantern slides.

Rapid Rectilinear. A doublet lens that has corrected for distortion of line. Usually ab-

breviated to "R.R. lens." Called also a "symmetrical ponents forming the lens are the same in construction, one component or one half of the lens can generally be used as a single lens of double the focal length of the

one component or one half of the lens can generally be used as a single lens of double the focal length of the complete lens. (See Lens.)

Reduction in Size. In the production of lanternslides (q.w.), or small prints, from large negatives, it is necessity to use a reducing apparatus. It consists, in practice, of a camera which takes a photograph on a small scale of the original negative or picture. The adjustments should permit the original that is being copled to be evenly illuminated by transmitted (or reflected) light, and the reducing camera should be truly square and vertical with the plane of the original, otherwise distortion will occur. (See Copying and Lantern Sildes.)

Reduction in Density in negatives is secured by means of a reducer. A useful formula is the ferricyande-hype reducer (called also "Howard Farmer's Reducer, after its inventor). It is prepared by adding a small quantity of potassium ferricyanide (to per cent. Solution) to hypo \(\frac{1}{2}\text{C}_waterg \text{Oss}. The mixture should be of a light yellow colour and keeps acting for only a few minutes. Negatives can be placed in the reducer straight from the fixing bath. If hypo preplanderates in the solution, reduction affects the high lights, but when the ferricyanide is in excess, the shadows are attacked first. As soon as the required reduction is complete, wash well and dry. Persulphate of ammonia salso a favourite reducer. Local reduction can be effected physically by rubbing the required part of the \( \text{Prin Nexitive with a wad of control wool saked with

is also a favourite redmer. Local reduction can be effected physically by rubbing the required part of the oby in gative with a wad of cotton wool soaked with methylated spirit.

Reflex Camera. A form of camera, usually used as a hand camera, in which the image cast by the lems reflected (by means of a mirror placed at an angle of 45 degrees inside the camera) to a focussing screen at the top of the instrument. This serves the purpose of a full-sized view-finder, and the image can be focussed up to the moment of exposure. The plate is in position in its usual place at the back of the camera, and at the desired moment the mirror is released. It springs the desired moment the nurror is released. It springs up and shuts out the top focusing screen, and simultaneously a shutter exposes the plate. Reflex courses are specially useful for instantaneous work that requires. great precision of focus, and also for natural history

precion of news, and also for natural mixtory photography, e.g. birds, etc. registration. Any hotograph may be registered (copyrighted) at Stationers' Hall on payment of a fee of its. The necessary form is supplied on application. Rembrol. A compercial one-solution concentrated

developer for plates, films, papers, and lantern-slides. Needs the addition of water only. Restrainer. A chemical added to a developing solution to restrain its action. Usually Potassium bromide in a 10 per cent, solution is used with de-

velopers for negative work.

Retouching is the process of spotting out defects in photographic negatives of prints. It is generally accomplished with a fine-pointed junish-differ the film has been prepared to "take" the lakek-lead-or with a fine sable bush and water-colour of the right tunt (for prints). To prepare the surface of a negative for retouching, a little special varnish must be rubbed over the film to give it a "tooth." A formula for preparing this is:—
Powdered resin . . . . 60 grains.

must not be pressed hard and the density must be built up gradually. Stots, freckles, lines, etc., on the face in a portrait, which appear as almost trans-parent places in the negative are readily filled up in this manner and the texture of the skin can be smoothed considerably. It is not wise to overflo the retouching or all character will be removed from the features. An occasional rough print may be taken to see the progress of the retouching, and if unsatisfactory it can be entirely removed by wiping the film with a rarg dipped in turpentine. The process can then be started de novo. The retouching desk owhich the work is done is a stoping board with side which the work is done is a sloping board with side strust to hold it in position. A rectungular hole is c.t. in the middle of the negative held (film upwards) over this hole in grooves. As the retouching has to be done by transmitting hight, a mirror is placed below the negative to reliect hight from a window or lamp up through the hole in the desk. A top screen of wood or cloth cuts out extraneous light while

Reversal is when those parts of the image which should appear dark in the negative come up light, and vice versa. It is due to the extreme action of light on the sensitive film and is also known as solarisation.

on the sensitive him and is also known as solarisation.

Reversed Megative is one in which the position of the picture is reversed as regards right and left. Reversed negatives are used for certain photomechanical work and in carbon printing in single transfer. They are made (i) in the camera direct by taking the picture through the glass side of the plate or by means of a prism, (2) by stripping and reversing the negative film itself, (3) by reproduction from other negatives.

negatives.
Rising Front is a movable panel of wood fitted to the front of the camera and holding the lens, which can be moved up and down so as to exclude or include more or less of the foreground of a picture without shifting

the camera

Rodinal. A concentrated one-solution developer for plates, films, papers, lantern slides, &c., needs only the addition of water for use. Made from paramido-

Roll Film. A popular form in which sensitive films are supplied for tive to rarer. The films are no long strip backed with black paper and wound on a spool. (See Film.)

Roller-Blind Shutter. A form of instantaneous

Shutter in which it continuous strip of blind of this opaque material, containing a rectangular pointing sit in the middle, passes from a roller at the top of the shutter and rapidly which on another spring roller at the bottom. During its passage from one roller to the other, the opening in the middle incovers the lens to which the shutter statached, tsee Instantaneous Photography.) The body of the shutter itself is in the form of a narrow shallow box with an opening right through its shallest dimension. The rollers are fitted inside the box at top and bottom, and the lens of the dealers are the state of the rollers are the other side free. The principle of the roller-blind is also applied to the Focal Plane Shutter (z.v.).

Safe-edge. (See Carbon.)

Safe Lights. This term is applied generally to the metha or colbured screens employed in dark-room lamps, and may vary at oarding to the sensitiveness of papers used. For brounde papers a good the plates, or papers used. For brounde papers a good shutter in which a continuous strip or blind of thin

lamps, and may vary at airding to the sensitiveness of the plates or papers used. For brounde papers a good yellow light (orange glass or two thicknesses of special yellow fabric—sold for the purpose) will suffice. For ordinary and rapid non-ortho plates, ruby and orange glass combined, or two thicknesses of yellow fabric and one of ruby fabric will be safe. For orthochromatic plates a very deep ruby light is necessary or one of the commercially prepared safe lights made for the purpose should be used. (See Dark Room.)

Short-Focus Lans. A lens of which the focal length is less than the length of the longest side of the plate for which it is used may be called a short-focus, or wide-angle lens so far as that particular size of plate is concerned. Generally, however, the term means a

or windowing reans so far as that particular size of 1 late is concerned. Generally, however, the term means a lens with a focal length less than five inches. Such lenses have greater depth of focus (or definition) than lengt focus [1].

lenses have greater upper to long-form lenses.

Screen, Coloured.

Screen, Lantern.

The screen or sheet upon which the picture in the lantern-side is projected by the optical lantern (x-x). To get the most brilliant result the screen should be white with a little blue in it and should be consule.

and should be opaque.

Self-Toning Papers are printing-out papers in which the amount of gold necessary for toning the image is mcorporated in the emilsion itself. Prints on

self-toning paper only require fixing in a plain hypo bath to give finished pictures of a pleasing colour. Thorough washing is necessary after fixing.

Shug is necessary after fixing. Mechanical con-

rivances for exposing the sensitive plate or film in the camera to the action of light for the fraction of a second, and allowing the image formed by the lens to impling on the surface of the plate during that period. e Instantaneous Photography and Roller-Blind Shutter.)

Silhouette Photography is that form of portraiture in which the face or figure is shown in profile in solid black against a plain white background. The in soil black against a plain white background. In the method of producing these effects is to pose the sitter in profile against a white sheet. Focus the camera carefully and then exclude all light that may illuminate the near side of the figure or sheet. The whole of the light must come through the sheet and may be daylight of flashlight. Use a slow plate and develop with a well-restrained developer to give great contrast and density. density.

Eizes, Photographic. The principal sizes of photographic plates and papers are 12×2 %; 34×24. 31×31—[lantern plate]; 31×12—[quarter plate]; 5×3; 51×3; (postcard); 61×4 (lualf plate); 61×3; (stereo-scopic); 7×5; 81×6] (whole plate); 10×8, 12×10; 15×2. The principal sizes of continental plates are 61×9 centimetres; 9×12 cm.; 12×16 cm.; 13×18 cm.; 18×24

Bkiagraphy, an early name applied to Radio-

graphy (9.20)

Snap-shot photography. (See Instant-nacous Photography and Hand Camera.)

Sodium Carbonate: ordinary washing soda. It is best to use the pure carbonate of soda prepared for

is best to use the pure carbonate of soda prepared for photographic purposes instead of the common variety. Should be in clear crystals.

Sodium Hyposulphite. (See Hypo.)

Sodium Sulphite. Used largely in photographic formulæ as a preservative for various developing agents, such as pyro, metol, hydroquinone, amidol, &c. It is so prevents staming the film during development. Should be obtained in clear crystals. When it turns white or gets partly white it has oxydised and become sulphate and is then of no use for its original purpose.

Bolarisation. (See Reversal.) Spherical Abarration is a defect in a lens and consists in bringing the rays passed by the centre of the lens to a focus at a point nearer than where the

riys passed through the hargins. Occurs most commonly with "single lines hargins. Occurs most Spool. The name given to the rolled-up length of sensitive film between the common of sensitive film between the common of sensitive film to the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the c of film may contain sufficient for two, six, or twelve exposires, and is sometimes called a film-cartridge, and can be loaded into the camera without the need of

and can be loaded into the camera without the need of a dark-room. (See Filma.)

Rqueegae. A nacful accessory employed for squeezing a print into optical contact with a sheet of glass, or for expelling the air from between two pieces of paper (as in the carbon process) or other surfaces. It is made in two forms: the roller-squeegee, at tube of seamless rubber on a wooden spindle revolving in a convenient handle, or a flat straight-edged strip of rubber cemented or otherwise held in a long wooden helder. The latter form is more satisfactory in ractice. holder. The latter form is more satisfactory in practice.

holder. The latter form is more satisfactory in practice. When squeegeeing, start pressing out the air from centre of print towards the margins. Place a sheet of clean blotting-paper and then a sheet or two \$\frac{1}{2}\sigma \text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{clean}\text{cl

and make the most of each negative. A developer specially suited for stand-development on account of its clean working properties is glycin. The following formula is suitable:—

Potassium carbonate . . . . 5 OZS.

Potassium carbonate ... 5 ozs.

Water ... 5 ozs.

Dilute one part of this with 6 to 12 parts water.

(See also Tank Dewelopment.)

Starch Paste. (See Mountant.)

Starch Photography. Synonymous with

Pinhole Photography is that form of

camera work in which two photographs are taken

simultaneously (if the subject is moving) with the same

exposue, and with a camera having two similar lenses

placed approximately the same distance apart as the

human eyes. The resulting prints from the two nega
tives (usually taken side by side on one plate) when

mounted, and viewed in a stereoscope, give the illusion

of solidity to the objects photographel. This is due

to the two points of view in the two halves of the pair

of pictures. Two separate cameras may be used, or of pictures. Two separate cameras may be used, or two exposures given with one camera-moving it a few inches to right or left before making the second exposure. Special stereoscopic cameras are sold for the purpose. When mounting the prints from a stereoscopic negative, care must be taken to mount the right hand print on the left and view verie, as it must be remembered the negative has reversed the two views. views. The ructures may also be seen to advantage as transparencies

Stock-Solution is the term applied to a concentrated form of any formula of which a portion is taken from time to time and diluted for use.

stops. (See Diaphragm.)

Stops. (See Diaphragm.)

Stripping Negatives. The film of a negative can be stripped from the original glass or celluloid base by treating with the following solution:

A. Methylated spirit 2028.

Water 2028.

Formalin 1, 1028.

Take 8 parts of this solution and add 1 part hydro-florion acid. Place negative in this, first cutting film all round about \$\frac{1}{2}\$ isch from edge. The film readily loosens in this and can be taken o'. It can then be transferred to a new plece of glass. (See **Cracked** 

ransferred to a new piece of general Registries. Sulphide Toning. (See Toning.) Sulphide of Soda. (See Soldum Sulphite.) Sunning Down is the term used when the high lights (e.g., the sky) of a print are perfectly blank and are coloured or tinted slightly by extra exposure to the hight. In the case of printing out-paper, this is effected by merely exposing the print to sunlight for a few seconds, carefully shielding the portions of the picture that are already sufficiently printed. A graduated sky effect, dark at the top and lighter near the horizon, can be obtained by slowly uncovering the sky part during the period of exposure to the light.

Swing Back. The movable back of the camera

that can be swung vertically so as to get the plate truly
perpendicular when the camera is pointed up or down
Swing Front. The front of the camera holding

the lens can in many cameras be swung from the centre so that the lens points up or down at will. Both the swing front and the swing back are useful movements

for architectural photography.

Sulphuric Acid. A strong, corrosive acid used in the Bromoil process (q v.). Develops great heat when diluted with water. Always add the acid to the

water, and not vice versa.

Sulphocyanide of Ammonium. A very dalquescent chemical. Used in the gold toning bath. (See Toning.)

Supplementary Lenses, or magnifiers, are single lenses applied to the front of the ordinary lens for the purpose of increasing or decreasing its focal length. By careful calculation of the amount of this increase or decrease, objects at different distances can be brought into focus without altering the position of the original lens on the camera. These lenses are largely used in hand cameras that are not provided

with focussing adjustments. To find the focal length with focuseing adjustments. To find the focal length of a supplementary lens necessary to reduce or increase the focal length of a given leng, multiply, the focal length to be altered by the focal length direct, and divide the product by the original focal length ies the final focal length. A "positive" lens mil reduce the focal length. A "negative" lens must be used to increase the focal length.

Bymmetrical Lens. (See Rapid Recti-linear.

linear.

Innear.)

Ta.ik Development, This term is applied to the davelopment of pittes or films in a grooved metal tank or box. The plates (a dozen or more can be treated at once according to the number of grooves) are held vertically in the tank and a clean acting developer of known strength poured on. The constitution of the development is complete in a certain time, say five, ten, or twenty minutes. This is arrived at by trial with a correctly exposed plate. A great number of developing tanks are now made and are obtainable from photographic dealers. They all embody the same principle, and many are made so that the plates can be reversed top to bottom at intervals during development. She also Stand This prevents uneven development. (See also Stand

Development.)
Telephotography is that branch of camera work Telephotography is that branch of camera work in which a telephoto lens is used. The effect of this lens is to bring distant objects into focus on the plate on a large scale, but without a long camera extension. The telephoto lens consists of a combination of an ordinary large-aperture "photographic lens with a "negative" (or double concave) lens. This negative lens acts as a magnifier and the size of the image varies with the distance of the separation between it and the positive lens. To obtain the same sized rendering of distant objects with ordinary lens would require a camera of many times the length

Temporary Support. (See Carbon Printing.) Ten per Cent Solution. (See Weights and Measures.)

Thiocarbamide. A chemical used for making a clearing solution for negatives and for the removal of stains. The following is a useful formula:

Thiocarbamide . . . . . . 20 grs.

Citric acid . . . . . . . . xo grs.

Water 2025.
Thiocarlaunide used in the developer will bring about reversal. (See also Obsaring).
T. and I. An abbreviation for "Time and Instantaneous," applied to photographic shutters that are capable of giving "time" exposures as well as "instantaneous."

Three-Colour Photography. (See Colour Photography.)

Tissue. (See Carbon.)
Time Development. A system of developing negatives in which the time of first appearance of the mage bears a definite relation to the total time taken to develop the image fully. (See Factorial Development.)

Time Exposure is the term generally applied to an exposure given by uncapping the lens of the camera for any time more than a second. Less than one second's exposure is usually regarded as "instantaneous." When usung an exposure shouter on the lens, exposures of from half a second to three or four seconds are sometimes referred to as "bulb" exposures (q.w.).

Toning is the process whereby the tone or colour.

posures (q.v.).

Toning is the process whereby the tone or colour of a photographic print is altered or changed by chemical means. Nearly every form of print is capable of being toned, but gelatino-chloride, or collodio-chloride papers (P.O.P.) and "bromide" or "gashight" papers are most frequently reated in a toniagh bath. A favourite toning lath for gelatine P.O.P. is Aumonia sulphocyanide. 20 grs.

Chloride of goid 2 grs.

Water 20 0ss.

Dissolve the sulphocyanide in half the water and gold in remainder. Add gold to sulphocyanide, a little at a time, until all is mixed. The prints should be well washed in plain water first, and then placed in above bath until

all warm colour has disappeared from all but the all warm colour has disappeared from an observed darkest shadows when the print is viewed by transmitted light. Rinse the prints (a dozen or more can be dealt with at once in the toning bath), and place in the fixing bath composed of:-

Hypo . . . . . 3 ozs.
Water . . . . 20 ozs.
Fixation is complete in about ten minutes. Then wash prints for two hours, and dry. It is generally well to undertone, as the prints become much colder in colour when dry. A toning bath for giving fine brown tones

Phosphate of soda . . . . . . 60 grs.

on mait-surfaced P.O.P., by platmum toning. Use the following bath:

Potassium chloroplatinite . . . 3 grs. Sodium chloride (salt) . . . . 50 grs.

orints in :

Potassium ferricvanide . . . . 40 grs. Potassium bronide . . . . . 60 grs. 

When the image has quite disappeared, the same place in:

Pure sodium sulphide . . . . 40 grs,
Water . . . . . 10 025,
until the image reappears in a strong brown tone.
Then wash well and dry. Red and blue tones are obtained, or brounde and gaslight prints by using the

obtained, or bromide and gaslight prints by using following solutions:—

Neutral potassium citrate. 4 ogs.
Water 40 ogs.

b. Potassium ferricyanide 7 ogs.
Water 10 ogs.
C. Copper sulphate 7 og.
Water 10 ogs.
C. Uranium nitrate 50 grains.
Water 10 water 10 ogs. Water . . . . . . . . . . . . 1 oz.

the wet print. For a different series of warm seplas to red-chalk colour use: b, 2 drams; d, 1 dram; glacial acetic acid, 2 drams; water, 10 ozs. After toning ruise in dilute acetic acid (1 m 100) and then wash in several changes a of water.

Blue tones are obtained by immersing the prints in:-

Water rooz.

6. 10z.

7. 10z.

8. 10z.

10z.

10z.

Wash in several changes of water after toning and hang print up to dry. The nethods of toning bromide and gaslight prints given above can also be used for better there. used for lantern slides.

Transfer Paper. (See Carbon.)

Tripod is the name of the three-legged stand used Tripod is the name of the three-legged stand used or supporting the camera while the photograph is being focussed and taken. They vary in construction from heavy wooden affairs for bulky cameras to telescopic, aluminium, pocket tripods for small, light cameras. The best forms have adjustable, sliding legionts, to permit ready leveling of the camera on uneven ground. The tripod top is the section to which the legs are attached and to which the camera is a reward. is screwed.

is screwed.

Triple Extension means that the camera is capable of an extension of bellows three times the focal length of the lens ordinarily used.

Under-Exposure occurs when the amount of

light that reaches the plate or sensitive film through the lens is insufficient to record completely all details of the image—especially in the shadows. (See Development.)
Uranjum. (See Toning.)
U.S. Numbers. (See Diaphragm.)
Varnish, Negative, Varnishes specially prepared for application to negatives and obtainable from all photographic dealers. The varnish is poured over the film side of the plate, which is then set up on end to dry in a warm place. A good cold varnish for application with a brush for glass negatives is;—
Celluidid.

Dammar . . . . . . . . . . . 50 grs. Matt varnish for applying to the back of a negative (gives a ground-glass effect and can be worked upon with a soft pencil) is made as follows:— Mastic . . . . . . . . . . . . 20 grs. Ether . . . . . . . . . . . . 2 02s. Dissolve and add

Yew Finder is the little instrument attached to most hand cameras for the purpose of determining the amount of subject or view that will be included on the plate at the moment the photograph is taken. The plate at the moment the photograph is taken. The reflector form is, in effect, a tiny reflex camera, and the mage formed by the small lens is reflected up by means of a mirror to the view point of the top of the Inder. The direct vision-finder is usually a simple double-concave lens, rectangular in furm, which prosents the view in miniature when looked through. This type of finder affixed to the top of the camera with a sighting-pin arrangement permits the camera to be used at the eye-level and the object sighted as with a gun. Another form of direct-vision finder is made of wire frame with utersective when yours grown in the

be used at the eye-level and the object sighted as with a gun. Another form of direct-vision finder is made of a wire frame with intersecting wires crossing in the middle at right angles. This is fixed to the camera front (above the lens) and a sighting pin is placed at he back. This wire finder may be same size as the back this wire finder may be same size as the length of the size of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the length of the l

paper. A hole being cut in the card to allow the required portion of the image to show through.

Washing Negatives and Prints is best accomplished in running water. The removal of hypo or other chemicals from the film cannot be done by allowing the plate or print simply to soak in water. Constant movement should be imparted to the washing water by means of a stream of water entering the washing trough (a large circular basin is good for prints) through a rubber pipe at an angle. Negatives should be washed vertically or film downwards, but not touching anything. Washing racks and tanks are now obtainable so cheaply that is is better not to risk the permanency of the negatives by not employing now obtainable so clieaply that it is better not to risk the permanency of the negatives by not employing one to wash them thoroughly. The next best plan is to give the plates or prints a series of complete changes of clean water. Twelve changes with five numutes soak between each will generally prove sufficient. (See Hypo Ellminator.)

Watkina. This name when applied to dry-plate speeds, e.g. "200 Watkins," signifies that the speed has been determined according to comparative tests calculated by Mr. Alfred Watkins, (See also Exposure Meter and Exposures.

Watghts and Measures. Photographic. Formular are usually made up by apothecaries'

Formule are usually made up by apothecaries weight:-

eignt:

20 grains = 1 scruple.

3 scruples = 1 drachm = 60 grains,
8 drachms = 1 ounce = 480 grains,
Chemicals are usually sold by avoirdupois weight:

437 grains = 1 ounce.
The sold = 17 ounce.

The fluid measure is:—
60 minims = 1 drachm.

60 minims = 1 drachm,
8 drachms = 1 ounce,
20 ounces = 1 pint,
2 pints = 1 quart,
4 quarts = 1 gallon,
Whole Plate. A photographic size measuring
6 chinches, (See Bizes.)
Wide-angle Lens. A lens is said to be wideangled when its focal length is much shorter than the
diagonal of the plate it covers. It embraces an angle diagonal of the plate it covers. It embraces an angle of view that is comparatively wide. The same lens, of view that is comparatively wide. The same lens, however, used on a much smaller plate might be a mid-angle or narrow-angle lens. (See Angle of

mid-angle or narrow-angle iens. (See August J. Lens.)

Wynne. The name of an actinometer the calculations of which are sometimes used in giving the speeds of plates, e.g. "98 Wynne." means that the speed of the plate is 68 when used in conjunction with the Wynne neter. (See Exposure Meter.)

Rylonite. A form of celluloid, used in making light, unbreakable developing dishes. Spirit should not be used in these dishes or they will quickly get out of chanse.

Yellow Stain. (See Clearing 'Bath' Thiocarbamida.)



H. WALTER STANER.
(Editor of "The Autocar").

## Pears' Dictionary of Motoring

## Bv H. WALTER STANER

(Editor of "The Autocar").

The rapid development of the motor in its various forms has brought into use so many words peculiar to the subject that an adequate Dictionary of motoring terms seems indispensable to motor users, the more so as automobile nomenclature is, unfortunately, at the present rather loosely applied in many ways. In an industry or sport covering such a wide range many new words are necessarily brought into play; some hitherto confined to other special branches are pressed into the service, while many ordinary every day words are also commandeered and given

a fresh significance in their new alliance.

In compiling such a glossary as this, therefore (which naturally, should be as concise as efficiency will allow), it is a nice point where to draw the line—what words to include, what to omit—without being too diffuse on the one hand, too incomplete on the other. Consequently, it is necessary to have some foundation upon which to work, and for such a basis, in order to render this Dictionary as informative as possible, the reader has been assumed to have a fair equipment of general knowledge, but to be ignorant of motoring matters. This assumption, superfluous in many cases, must absolve the author from what, to the initiated, will seem a harping on the obvious, but even when apparently the commonest words are defined, it may be found, either that they have a peculiar shade of meaning in this connection, or that the definition includes some point of information which it is desirable to convey.

Absolute Pressure is pressure reckoned, not with the usual atmospheric pressure, but with complete vacuum as a basis. Atmospheric pressure is really 14.7 lb. per square inch above entire vacuum. Therefore, to obtain absolute pressures this amount has to be added on to the atmospheric pressure. The principle underlying the idea of absolute pressure is bound up with that of absolute pressure. The theory of absolute pressure is culturing compressions in cylinders, etc., and a description of the method employed well illustrates its use. If we assume that a full cylinder contains air at atmospheric pressure—i.e., 14.7 lb. to the square inc. when this is compressed into hab the space it will be at double the pressure [69,4 lb. per square inch]; compress this is compressed into hat the space it will be at country the pressure (29/4 lb. per square inch); compress this again into half the space (in other words into a quarter of the original volume) and we get a pressure of 58'8 lb. and so on. This method, though not strictly accurate, is near enough to be used for practical purposes, and in any case it shows how absolute pressure is the basis of such accurate. of such calculations.

or such calculations.

Absolute Temperature.—When a gas is heated it expands 1/273 of its total volume for earth degree (Centigrade) of heat by which its temperature is raised, or on the other hand, shrinks proportionately for each degree it is lowered; consequently, theoretically, any volume of gas at the temperature of zero, should shrinks nothingness at 273° below zero (Centigrade) or 455° (Fahrenheit).

Ecoalarator is a mechanism usually constant by

(Fantennum,

Accelerator is a mechanism usually operated by
a pedal to act on the throttle independently of the
ordinary hand throttle lever. In the usual arrangement either the throttle hand lever or the accelerator
has be used for operating the throttle, but the accel-

erator can only work above the minimum set by the throttle. Although the term "accelerator" is usually applied, "foot throttle" might more nearly describe this item.

Acoassories.—This term is applied to the smaller and less important fitments that go to make up the equipment of the car, as for example, lamps, speedometer, etc., and may include essentials of the car, as for instance, coils, accumulator, magneto, and so forth.

Accessories may be regarded as the smaller details, as
distinct from the component parts. (See Com-

Donants.)

Acetylane (C₂H₂).—A gas composed of 24 parts by weight of carbon to 2 of hydrogen; is derived from the action of water on carbote of calcium. In combustion it gives an extremely bright light, and as the carbote is exceeding properties and the pressure of the gas can be made to regulate the supply of gas-making water, the system is very convenient for car lighting. Many acetylene lighting systems are automatically regulated by the pressure of the gas generated. Some regulation is necessary, since acetylene, when mixed with certain proportions of air, becomes explosive, and, in fact, has been used as a source of power in internal combustion engines. This same tendency also makes it subject to rather stringent rules, by railway and transport combanies when it is being carried in any quantity. (See Lamps.)

Accumulator.—Accumulators or secondary bat-

Lamps.)
Accumulator.—Accumulators or secondary batteries are cells for the storage of electricity—they
cunnot generate electricity. They consist of lead and
oxide of lead plates in a solution of sulphuric acid, the
lead forming the negative pole, while the oxide forms
the positive pole. For motor requirements they are

made in various sizes, usually to work at 4 volts,

although 6 to 8 volt accumulators are sometimes used. Adapter.—This term is usually applied in motor parlance to a fitting enabling one tyre pump connection to be used with tyre valves of varging screw threads. It is also sometimes applied to a type of threads. It is also sometimes applied to a type or electric fitting made to enable various types or sizes of lamps to be used with one socket

Addendum.—The outer end part of a gear tooth beyond the pitch line; the part that meshes most deeply with the gear in engagement.

Adlabatic expansion of a gas takes place when no

heat is being lost through any external source, all the heat that disappears going in actual work. When a gas is kept at a constant temperature and allowed to gas is Rept at a constant temperature and anowen to expand in a closed cylinder, its pressure, according to Boyle's law, varies inversely with its volume; that it os asy, if a certain volume of gas at a given pressure is called on to fill twice the original space, its pressure sinks to one half, and so on. But the pressure of a gas. also depends on its temperature; heat the gas and its also depents on its temperature: near the gas and its pressure rises; cool a gas and its pressure decreases; also heat and work are mutually convertible. (See **Thermodynamics.**) If, therefore, in its expansion the gas gives out work, its temperature is lowered. proportionately to the amount of work given out, and so the pressure-fall is more than proportionals to the increase of volume. When a gas, otherwise expanding according to Boyle's law, is doing a certain amount of work and so loung a certain amount of heat, the exwork and so losing a certain amount of near, the expansion is suct to be adiabatic. Fure adiabatic expansion is more or less, a theoretical expansion, because in practice a certain amount of heat is lost through the cylinder walls and other causes.

Adjustment—The alteration of particular details to give varying results with a view to obtaining best results. The term is also used for the mechanism by which such alterations are effected.

which such alterations are effected.

Advance.—When the timing of the ignition is so Iltered that the spark in the cylinder power at an earlier point in the cycle of operations, the spark said to be "advance!" Roughly speaking, the most advanced point at which sparking takes place is when the piston is at a height of about half an linch before the top of its stroke. Advanced sparking is only intended for fast running, when the explosion only has time to begun to take real effect by the time the pistor

time to begin to take real cliect by the time the piston has reached the top of its stroke. (See Spark Timing Variation.)

Air Cooling.—See Cooling System.

Air Pump.—This term may refer to the yemp, to the pump for supplying pressure to force the petrol to the carburetter on cars, with pressure to the pump for the carburetter on cars, with pressure to the pump for the term of the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for the pump for th the petrol to the carburetter on cars, with pressure feed, or to the pump of a self starting device. In the second case the air pump may either be a hand pump used at starting (after which the exhaust gases from the engine supply the pressure) or it may be a small pump driven by the engine. Air pumps for self-starting apparatus are usually like very small motor bicycle engines with the cycle of operations reversed (that is, with the crank shaft driving the piston instead of new enred, and the pump cylinder is usually air-cooled) and are driven off the engine, or sometimes from one of the grait box shafts.

cooled and are driven on the engine, or sometimes from one of the gear hox shafts.

Air Walve.—Besides being used for the tyre valve, this word describes the valve for admitting additional air to combine with the mixture from the carburetter on its way to the engine. In self-starting apparatus, too, the air at pressure used for starting is distributed to the proper cylinders in rotation by a valve which

also may be called an air valve.

also may be called an air valve.

(Alsohol.—An organic hydro-earhon compound (Alsohol.—An organic hydro-earhon compound (Alsohol.—An organic hydro-earhon compound used in internal combustion engines. Though it can be used in ordinary petrol engines it gives the best results with very much higher compression pressures; in fact, 200 or 250 lbs, to the square inch is not too high for this purpose. Owing to the tax on alcohol in this country, however, its development as a fuel has not been practicable, although, since alcohol can be extracted from so many sources, its development offers very great possibilities for the British Empire. This tax is, of course, owing to the possibilities of its being used for drinking, and alcohol rendered undrinkable

and only intended for industrial uses is known as denatured alcohol.

Alignment.—When two shafts are placed with their ends opposed to each other in such a maffiner their ends opposed to each other in such a manner that the axis or line running all along the centre of one shaft continues in a straight line with the axial centre line of the other, they are said to be in alignment. Shafts may be out of alignment in two ways; either the centre line of one shaft may be parallel but ribt in line with another, or the centre line of one shaft may lie at an angle with that of another. Rigidly con-nected shafts running when out of alignment with each other cause excessive wear on their bearings, and may even break. Therefore, as the frame and mechanism of a car when travelling on the road can never be regarded as absolutely right, perfectly dead alignment cannot always be expected at all parts, and conse-quently flexible couplings are introduced to permit of unalligiment without serious consequences

Alloy .- A composite metal made up of a mixture of two or more other metals which are themselves chemical elements, or, in other words, incapable of being chemically split up into other constituents. Brass

being chemically split up into other constituents. Brass and guinnettal are, for example, typical alloys.

All-Weather Body.—Practically a light edition of the cabriolet, from which it may usually be distinguished in that the front corner pillars can be folded down when the hood is folded back, while in the cabriolet they remain standing. The windows, too, are generally merely detachable, or fold bagk, instead of letting down into the panels in the usual manner.

Altamastra Current is

Alternating Courrent. Electric current is generated in a dynamo by the work performed in cutting across with the annature the lines of force between the poles of the magnets. As the magnetines are cut first in one direction and then in the other by the armature windings, the current flows through the windings first in one direction then in the other, Where no provision is made to reverse every all

flow of current, the current alternates in direction.

Alternating current cannot be used for charging batteries without some means of transforming it into continuous current. The ordinary magneto generates

an alternating current.

Aluminium.-A metal (Al chemically)-one of the chemical elements—which, as it is produced from the silicate of alimnia in clay, is also one of the most plentiful. It is, however, not easy of extraction, hence its comparatively high pince. For practical motor work it is always used in a more or less alloyed state. about 90 per cent aluminium, and the rest copper and arout so per cear auminium, and the rest copper and other ingredients. When properly alloved it is tremally light for its strength (cast aluminium weighing 160 lb, and wrought 167 lb to the cubic foot, specific 160 lb. and wrought 107 lb to the cubic foot, specific gravities respectively 2 so and 207), and can be easily cast at a fairly low temperature, although it takes a great quantity foot intensity of loat to melt it. It is also much used us sheets for the making of motor carriage bodies. It is quite unsuited for withstanomy friction, nor is it desirable for holding study or boils tapped into it. It is also seriously affected by salt water, or even sea air, which corrodes it, and so, in general, is ensuited for marine work.

Ammeter.—An instruction for indicating

Amperage. - The current of electricity flowing in a circuit, or capable of being given out by a generator or accumulator. The amperage of an electrical circuit may be compared to the rate of flow of water through

a pipe circuit.

Ampere.—The unit of electric current. It represents the rate of current flow necessary to overcome a resistance of one ohm at a pressure of one volt.

resistance of one ohm at a pressure of one volt.

Angle Iron.—A form of manufactured wrought iron rolled in lengths so shaped in section that it forms the letter L, or two sides of a square

Anneal.—To anneal metal practically means to soften it. In the case of steel this is done by heating it gently and then allowing it to cool as slowly as possible, Curiously enough, the method adopted for annealing copper is the same as that for hardening steel; that is to say, the copper is heated to red heat and then plunged in water. Annealed metal is generally less brittle and less hable to crack.

Antimony, a metal (chemical symbol for which is Sb), is an element, and is frequently found in small quantities in conjunction with tin, on which it has a hardening effect. It is sometimes used as a hardening agent in the manufacture of brass, bronzes and similar acove. Its specific gravity is 671, weight per cub. ft. 418 lb.

A.O. W.—An abbreviation for "automatically pers ed valve." The term is usually applied to inlet ouers ed valve."

valves so actuated. Apron.-The under-shield of sheet metal that serves to protect the engine, year-box, etc., from mud and road grit. In certain cars the apron is made integrally with the pressed steel frame.

Arbor.-Another name for a shaft, and one fre-

quently employed in American practice. Arc of Contact.—In a contact breaker or dis-tributer for electrical ignition, the contact is often made by a piece of brass let into the face or circum-ference on the disc-shaped non-conducting body of the contact maker or distributer, and the part of the circumference over which this contact piece extends is called the arc of contact. It is usually measured in degrees, so as to express its dimensions in terms of the circle.

circle.

Armatura.—Electricity is most economically produced by passing a piece of iron between the poles of a magnet, in which action work is done by the piece of iron cutting the magnetism between the poles. In a dynamo or magneto (which is really only a specialised dynamo) this piece of iron is elaborated into a system. of coils of wire on a core, and is known as the armature. The greater the number of turns in the coils of wire in this case the higher the voltage of the current prothis case the higher the voltage of the current pro-duced. This use of the word applied to a dynamo or magneto is its most usual application, but an armature may also be the bar of metal that is attracted across the poles of an ordinary magnet. In this form it is particularly familiar as the loose piece across the two ends of the ordinary horse-shoe magnet. The term also defines the soft piece of from usually attached by a spring to the treinbler of a high tension coil, so as to make couract with the core of the coil when the latter make contact with the core of the coil when the latter

Artillery Wheel.—The type of wooden-spoked wheel most generally employed for cars. It has wooden spokes and wooden fellows, and a metal (usually cast aron) nave or hub, into which the wooden spokes but.

Asbestos is a silicate of magnesia which can withstand great heat, and is much used for making joints, etc., that are subjected to high temperatures. It is placed on the market in the various forms of cord, rope, and sheets

Atmospheric Pressure.-The envelope of air surrounding this earth is computed to be from 40 to 50 surrounding this earth is compliced to be from 40 to 50 or miles in height, that is to say, every square inch of surface on the earth has upon it the pressure of the weight of a column of air usually 40 or 50 miles high, cout at very high points on the earth's surface, of course, less. Normally it amounts to 14 7 lb to the square inch. This explains the use of the term "an atmosphere," used sometimes as a unit of pressure. Such spirete, used sometimes as unit of presuder sup-an "atmosphere" of course amounts to 147 pr, roughly speaking, 15 lb, to the square inch. Afmospheric pressure is usually taken as the starting point in dis-cussing ordinary pressures, although for scientific calcinations absolute pressure is very frequently used

Atomiser.—A device for breaking liquid fuel £, into unnute particles, in order that the air may mise more completely with it so that a good explosive mixture is obtained. Owing to the requirements operaffin when used in an internal combustion engine, atomisers are very frequently used in conjunction with that form of fuel. An atomiser must not be confused with a vaporiser.

Automatic.-A word used in automobile matters

Automatic Yalvas are valves which, being fitted with springs, are capable of being opened by the cuction of the engine; when that ceases they close or return upon their seatings by the action of the springs mentioned

Auxiliary Air Yalva.-At slow speeds an

engine requires relatively more air for carburation than at high speed. Accordingly in most carburetters the mixture is adjusted for low speeds, and as the speed rises, auxiliary air is admitted above the carburetter jet, its admission being/controlled by the speed of the engine, and consequently being proportionate to engine requirements.

Axia.—Along, or pertaining to, the axis.

Axia.—The longitudinal centre line of a shaft or other detail of construction.

Axie.—The shaft bearing the weight of a vehicle, and transmitting that weight to the linbs of the wheels. In motor cars the front axles, owing to steering requirements, are different in construction and principle quirements, are different in construction and principle from the back axles, and these latter again may be divided into two sorts, the solid axles upon which the wheels (usually driven by claims) revolve, and the live axles which usually form a casing m which is the mechanical through which each wheel is driven by a separate shaft. This mechanism is so arranged that the driving effort shall be exactly balanced to the requirements (see Balance Gear), so that when, in rounding a curve, the outer wheel has to traverse a greater distance than the inner, each wheel is given its correct proportionate anount of rotation. correct proportionate amount of rotation.

Babbit Metal .- The name given to a white metal weeks.— Are hame given to a white metal used for I mig bearings and composed of about 84 per cent, in, 8 per cent, copper and 8 per cent, antimony Back Fire,—When from any cause an ignition occurs in the cylinder before the pixton has reached bearing the children of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr

the top of its stroke, and the engine is not running at sufficient speed to render the timing of such firing accurate, the crank shaft of the engine man momentarily tend to rotate in the opposite direction. This can happen either when starting the engine with the ignition advanced too far for the speed at which the crank can be turned round by hand, or when a short circuit causes the spark to pass at the wrong moment. In the first case the back fire may injure the person at the starting liandle, in the other case it seriously stresses the engine and may cause a breakage, so causes of back arms should be carefully avoided.

The word is sometimes misapplied to an explosion in

the silencer. Back Pressure.—When a piston is on its exhaust stroke in the cylinder, it has to displace the burnt gases therem. Should the speed of the engine be excessively high or the openings from which the gases are expelled high or the openings from which the gases are expelled from the cylinder by the on-moving piston too small, the exhaust cannot then escape with sufficient rapidity and tends to retard the piston, and so act inpon the engine as is brake. The pressure produced by these imprishmed gases is called back pressure.

Baffle.—A haffle plate is a plate to deflect the flow of fluids—generally gases. The gipieral use of a haffle plate is found in atwo-stroke engine for deflecting the enterior three movements are moved to the combination chamber.

the emering charge upwards to the combission chamber and so avoiding, as far as possible, its exit with the exhaust gases through the exhaust port, before the

piston has covered over the latter.

Balance Gear is the more correct term for what is usually called the differential gear, inechanism which permits the driving wheels of a car to turn proportionately to requirements. Thus, when rounding a curve, the outer wheel of a car must travel a greater distance than the wheel on the made curve, and while the balance gear perints this to occur, it yet obliges each wheel to perform its proportionate share of the drive, by very ingeniously balancing the resistance of the road wheels. In vehicles driven by side-chains, the balance goar 1, on the chain sprocket counters shaft, but in live-axie cars it is nearly always contained within the back axle. Balance gears are either of what is known as "bevel" or "parallel pinion" type. Balance Weight.—When the craik shaft of an

engine rotates, especially at high speeds, the rapidly moving parts tend to cause vibration if their weight is nnorms parts tent to cause violation in their weight not balanced. Accordingly the webs of the crank throws are sometimes extended on the side of the shaft opposite to the crank pin, and so formed as to constitute weights to balance this movement. Usually, however, in multi-cylindered engines the crank pins for adjacent cylinders are placed diametrically opposite each other (on the circle described by the crank, pin) so that the weight of the one with its moving parts balances that of its neighbour. This practically parts balances that of its neighbour. This practically gives correct balance in a plane transverse to the engine, but introduces a distribing could in the longitudinal plane,—a point that has fire, in the writer's opinion, yet received the attention it requires. As a general rule these balance weights on the rotating crank shaft may be about half the weight of the reciprocating parts. It is practically impossible to obtain perfect balance at all speeds, but this makes a very fire componities. very fair compromise.

Ball and Booket Joint.—When it is necessary to join two rods together so that the one shall be to Join two rous together so that the one snail occapable of moving in practically any direction from the other, a ball and socket joint is frequently employed. Its name describes it, the nearest analogy to it being the articulation of a thigh bone in its socket: in fact it is sometimes called an "articulated" joint. Good examples of the ball and socket principle may would be seen in car steering connections which

Good examples of the ball and socket principle may usually be seen in car steering connections which enable the connecting rods to move in any direction, rendered necessary by the movement of the car springs or the operation of the steering gear.

Ball Bearing.—There is obviously less friction when a cylindrical body, like a shaft, rolls over a surface than when it sluder, but when a shaft is rotation in a plain bearing, its surface is only sluding relatively to the surface of the bearing. To obviate this contraction of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the s sliding action and obtain rolling contact the shaft may be carried on steel balls which roll round on the outer ring fixed in the stationary liousing. The principle is the same in roller or anti-friction bearings—that of

ransforming sliding contact into rolling contact. **Ball Cage.**—The frame employed to retain the balls in a bearing apart from each other, for, as the front of one ball is naturally rotating in a different direction from the back of its neighbour, contact of the two balls, if it were allowed, would entail an unneces-

sary amount of shding contact and friction

Ball Race.—The halls of a bearing being of hardened steel, roll around on the outer circumference of a hardened steel ring on the shaft and on the inner or a naturate steer mig of hardened steel placed in the housing. These are the outer and inner ball races respectively, and, generally speaking, to allow the bearing to adjust itself, it is advisable to leave one of these rings lose in its seating; whether it is the outer or inner race depends on circumstances.

Ball Thrust.—The ordinary ball bearing previously considered is or taking the rolling load of a

shaft, but in some bearings there is also a heavy end load, along the axis of the shaft. In ordinary bearload, along the axis of the white. All ordinary bearings this is taken by collars on the shafts, running in grooves in the hearing, the end thrust being trusmitted from the sides of the collars to the sides of the grooves against which they press. When the ball mitted from the sades of the collars to the sades of the grooves against which they press. When the ball bearing principle is adapted to end thrust, balls are placed between the collars on the shaft and the grooves in the bearing—or rather the sides of the grooves in the bearing are substituted by hardened steel ringsheld in the housing, so that the balls travel round along held in the housing, so that the balls travel round along the faces of these rings. Generally speaking, a bull thrust is very much better than a plant thrust bearing.

Band Brake.—A band brake is a form of brake

in which a drain (preferably of cast iron, owing to the greater frictional properties of that metal) is secured to the shaft which has to be braked, and the rotation of the drum is arrested by a steel strap passing around its of levers, it can be contracted so as for grip the drum more or less tightly, and so arrest rotation. The strap is made of a strip of flexible steel, and the mechanism is made of a strip of nearing steel, and the mechanism ought to be arranged so that the pull at one end of the strap as equalised by that at the other. Sometimes the band is provided with fibre pads which grap on to the drum surface instead of the steel. One or two the drum surface instead of the steel. One or two
modifications of this principle of brake are much used
in testing engines for brake horse power (for which see
Brake Horse Power) by registering the work
absorbed by the brake at known speeds.
Bar.—This is a term commercially applied to those
varieties of manificatured iron and steel made up in

rods and bars. Steel or iron bars are made in many sections, among which round, square, rectangular,

flat rectangular, and channel section are the most usual. Hars are made by passing wrought iron or steel between the hardened rolls of powerful rodling mills, the rolls being formed with grooves arranged to afford a graduated series of shaping media, so that passing the red hot wrought metal first between one pair of grooves on the rolls, then another, and so on, finally reduces the maternal to the requisite selftion. In this process the metal is of course elongated, and so finally the resulting bars have to be cut off into requisite standard levels. requisite standard lengths.

Barrel.—Besides the more common use of the word

barrel for both wooden and metal receptacles for holding liquids, the word is also used to denote the reylindrical front part of hollers of the locomotive type frequently found in steam wargons. This part of the boiler, as many readers probably know, is more or less filed with water through which pass tubes carrying the hot gases from the fire-box to the snucken

ing the not gaves from the fire-roox to the shocked box before passing up the chimney.

Bath.—The word bath is sometimes used in motor parlance in connection with casings for transmission machinery (as for engues, chains, or gear wheels), which also serve as a recentacle for oil to enable the machinery to run in the lubricant

machinery to run in the lubricant

Battery.—A battery is a collection of two or more
cells capable of giving off electric current. They may
be regarded as of two sorts, primary, and secondary
or storage batteries. For motor-car work the primary
or storage for form. One form of dry battery is used for
charging accumulators of a more portable nature, but
for this purpose a type of cell capable of giving a
constant voltage has to be used. A storage battery
is the same as an Accumulator, which see.

Barn—The when of a hearn is so well-known, that

Beam.—The iden of a beam is so well-known that a definition is hardly necessary, but it should be pointed out that a beam may be supported at either one or both ends, and in engineering the term is not confined to girders or wooden josts, but embraces any structure or member subject to a load tending to cause bending stress; for instance the frames and the parts of the crank case that support the case of the engine constitute beams, so also does the frame of the chassis. It is immaterial whether the member is loaded for its whole length or at one point only, or whether the load is stationary or noving Beams may take many shapes. For further particulars see Bending Stress and Deflection.

Bearing.—Resides the ball and roller bearings, described under their respective headings, there is the plair bearing. This is the rigid seating upon which a shalf rotate, and being stationary is naturally and practically invariably incorporated in the construction of the gearbox, engine, or whetever the detail to which Beam .- The idea of a beam is so well-known that

practically invariably incorporated in the construction of the gearbox, engure, or whatever the detail to which it belongs. In a plain bearing the contact of the shad against the bearing is pure sliding contact, and therefore it is necessary to reuder both shaft and a bearing surfaces as smooth as possible. The surfaces must also be sufficiently large to withstand ample wear, and be of a suitable material for the shaft to run.

With chaft of study the partnersh usually emplayed. wear, and be of a suitable material for the shaft to run
in. With shafts of steet the material usually employed
is gun metal, and if the shaft he not hardened the
bearing is generally lined with Babbit or other
suitable white metal, comparatively soft. For shafts
of hardened and ground steet, gun metal by itself can
be employed it is in fact used with some soft steel
shafts, while hardened and ground steel bearings or
chilled cast iron bearings have also been used in
conjunction with hardened steel shafts.

Beau de Rochas Cycle. — See "Fourcycle Engine."

cycle Engine."

Bell Crank Lever.—A bell crank lever is a device often used for transmitting a simple push or pull round a corner, so to speak. From the point at which the power is supplied, an arm runs to the fulcrum, and from the fulcrum another arm transmitting the movement projects at a suitable angle. Bell crank levers are considerably used in engine controlling devices.

Belt.—This simple and well-known means of trans-

milting power is made in various forms and of various materials. The best known—the flat belt—has not materials. The best known—the flat belt—has not obtained much success for automobile work, and no flat belt cars are made to-day. For motor-cycle work,

also, it has not obtained, but in this branch a belt of "V" or wedged-shaped section has proved very successful. In the earliest days of the motor-cycle belts were made of raw hide twisted round ropewise so as to afford approximately a round section, but, except for the lightest machines, the round belt has been entirely superseded by the "V" sectioned variety, which should be made with its sides sloping at an angle of about 38" to the vertical. For a long time practically all beits for motor-cycle work wore of leather, but the objection to this material is its tendency to stretch, and consequent need for constant adjustment. Accord-ingly, of late years, belts made of a mixture of canwas and rubber have been extensively used. belts were made of raw hide twisted round ropewise so

and rubber have been extensively used.

Bending Moment.—When a bending force comes into action on a beam, it acts at a certain distance from the support or supports of that beam, and, therefore, works with a leverage. For instance, a force of 200 lb. on the end of a beam 10 ft. long has exactly twice the effect than a force of 500 lb on the end of a beam 1 ft. long. To obtain relative values for such influences, the term called the "bending moment" is used, the bending moment merely being the force causing bending multiplied by the mean distance of that force from the support or supports of the beam upon which it is

Bending Stress.—When a beam is loaded at a distance from its point of support (or supports), the load has a tendency to bend the beam, and the force which bends this beam is known as "bending stress." Bending stress is a compound of tension and compension. When applied to a beam, the beam tends to bend, and the lower libres consequently to stretch while

bend, and the lower three consequently to stretch while the upper fibres tend to shorten. In other words, the lower fibres are in tension, the upper in compression, Midway between there is a line all along the beam which is neither in tension nor compression; in fact, it is subjected to no stress at all. This is known as the "neutral axis," and the further the fibres are from the neutral axis the more pronounced is the stress, and the better position is the fibre in to resist such stress. This accounts for the shape of beams and girders which have their material cut away to a great extent all along the middle line, where it would be comparatively useless, and massed as lar as possible at the upper and

useless, and masses
lower edges.

Benon Test.—See Testing.

Benon Test.

Benon Test.—See Testing.

Benon Test.

nsure that the benzol becomes thoroughly mixed with the air. Its chemical composition is represented by Ca.H.. Its property of dissolving indiarubber also renders it useful in tyre numlacture, repair, etc.

Baval Gran.—The nominacture, repair, etc.

Baval Gran.—The nominacture, repair, etc.

Baval Gran.—The nominacture, repair, etc.

down the parallel with the axis are used for transmitting power between two shafts and sales parallel to each other, but for transmitting motion to shafts at an angle to each other. Bevel gearing searing is employed, especially between two shafts at right angles to each other. Bevel gear wheels have their outer or circumferential faces cut at an angle to the axis, the angle depending of the relative angle of the two shafts and on the ratio of the graning. Good examples of bevel transmission between shafts at right angles to each other are seen in the back axies of many cars, though at present there is a tendency for worm transmission to supersede it, for, though the bevel is perhaps slightly more efficient when new (it can reasonably show an efficiency of 86 per cent. to 90 per cent.), the worm transmission is the quieter in action

Big End.—The lower part of the con acting rod where the bearings for the crank pin are accommodated.

dated.

Block Casting.—When all the cylinders of an engine are formed in one casting the result is said to be a block casting, or the cylinders are cast at bloc. With modern methods of casting this system has a good deal to recommend it notably lightness, compactness, and simplicity in macuming. The system has, however, been somewhat abused by forming complete passages for the hot exhaust gases all along the casting. In any case, in designing block castings great care should be taken to allow for contraction and expansion when

working. Increased knowledge on the subject of engine balance and the possible adoption of a bearing between every crank throw may conceivably lessen the popularity of cylinders cast en blac.

Block Chain.—Roughly speaking the ordinary chain for transmission purposes is a series of cross-bars, each connected to its neighbour by side links so that the teeth of the chain-whoel can work in between the aide links, and thus the power can be transmitted between the cross-bars and the whoel teeth. In a block chain the cross-bars constitute the blocks, whose are suitably shaped to engage with the teeth of the claim wheels and at the same time to connect with a pair of links at each end. The action between the chain-sheel teeth is one of sludng. The

block and the chain-wheel teern is one of sinding. In block chain is, generally speaking, somewhat old-fashioned, having been superseded by the improved roller \$Aai diverted tooth types of chain.

Blook Tyre—A solid rubber tyre, in which the rubber tread, instead of being formed in a continuous band of rubber, is made up of a series of rubber pads or block secured to the whole time. or blocks secured to the wheel rim. In some cases, however, the tread is formed of blocks of hardened wood with the grain placed "end on" to the road

Blowhole.—When the molten metal for a casting is poured into the mould, gases are given off both by the metal and by the mould under the action of heat, and in certain cases these gases may form bubbles in the metal which, when the metal has cooled, are not generally visible. These defects are called blowholes,

and they may cause fracture of the casting.

Boller.—A steam engine, of course, derives its power from the pressure of steam acting in its cylinders, and this steam is derived from water in a boiler. For road work there are several types of boiler. For road work there are several types of boiler. Broadly speaking, they may be classified into two groups—saturated steam boilers on the one hand and flash and sein-flash boders on the other. The saturated steam boilers are the ones with which the public are most familiar, and they take several shapes, the locomotive type seen on tractors and many types of steam waggons being the best known. Then there are the vertical fire-tube types, in which a cylindrical vertical boiler contains the water, while the fire-box is at the bottom, and the gases from the fire-box are carried by vertical fire-tubes to the sinoke-box at the top. Most bullers of steam waggons are on one or the other broad lines, but the water-tube boiler has also other broad lines, but the water-tune couer has also been occasionally and successfully used. In this the fire surrounds the water instead of vic verif as in the more ordinary types. In all these bollers a comparatively large volume of water is constantly being converted into a comparatively large volume of steam, which forms an ever-ready supply for the engine to draw upon. The fash and semi-flash boilers work on a stable different principle and only contexts efficient. draw upon. The flash and semi-flash boilers work on a totally different principle, and only generate sufficient steam for immediate needs. In fact, they may be said to live from hand to mouth. The engine operates a small pump which at each stroke injects into the boiler a spray of water just sufficient for the next stroke, and since the boiler is little more than a coil of tubing kept at practically red hot temperature this water is flashed into steam in an instant-line the name of course the accentrate the stroke of the course the accentrate the stroke of the course the accentrate of the course the accentrate the course of the course the accentrate of the course the accentrate of the course the accentrate of the course the accentrate of the course the accentrate of the course the accentrate of the course the accentrate of the course the accentrate of the course the course of the course of the course the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course o water is lessied into steam in an instant—inche the name. Of course the pressures employed under this flash system are very much higher than those with saturated steam, for not only does the boller structure permit of higher pressures but the temperatures necessarily tend in the same direction. While the pressures in stinuted steam boilers may go as high as go lb, to the sd, in. the pressure in fash boilers ranges anywhere from 500 lb, to z,000 lb, to the sd, in.

Body.-This is a term used to describe the carriage portion of a motor car built for the accommodation of as passengers. Bodies are divided into various types open or touring bodies, single and double landaulettes, single and double limousines and cabriolets. The open, or touring-car body, is now generally of the torpedo pattern; that is to say, it has flush high sides with low wide sears, a scuttle dash-board fitted with a suitable screen and a Cape cart hood, which, with its side curtains, affords the passengers excellent protection in the worst of weather. Landaulettes are bodies the rear portion of which is made to open or close after the manner of a hood, leaving at times a permanent canopy over the driver's head: upon this luggage can be carried. This canopy is occasionfilly made to collapse with the hood of the body so as to give an oppen car when desired. Limoustues are bodies entirely enclosed in rear of the driving seat, and affording accommodation for four or five passengers. When the latter is the case, they are described as double limousines. Roofs of these carriages are made sutable for the carriage of baggage. Of late years designs wholly enclosing the body space have heen turned out, both for large and small cars, giving equal shelter and protection to the driver and occupants of the front seats as to those in the rear of the vehicle. Cabriolet bodies are the modification of the landaulettes, but with heads of cabnolet form. Two-seated bodies are made in great variety, but the generalty of rear portion of which is made to open or close after the bodies are made in great variety, but the generality of them take the single torpedo or cabroler form, and at times are built on the wholly enclosed principle, when they are eminently suitable for medical and business

Bolt.—There are many types of bolts, the ordinary variety for engineering work having a hexagonal head. There is the cheese-headed bolt with a round, need. I nere is the cheese-headed bot with a round, flat head; and as this head usually fits into a counter-sunk hole and entails the use of a screwdriver, the head is slotted across. Some bolts have cup-shaped heads like a rivet, and when used for wood work the shank is made square in section below the head to

Bonnet.—The casing Reneath which the engine is usually enclosed—we say "usually," because on some vehicles on which the engine is not placed in the front of the chassis, a dummy bonnet is occasionally provided. The bonnet is made of sheet metal, and is a sort of box, each side of which is langed and can be

htted up to expose the engine for inspection or repair.

Boot.— The space at the back of a car body underneath the back sent, chiefly used for the storage or

Bore.—The bore of an engine is the internal diameter of the cylinder. The word is also used as a verb to describe the process of inachining the cylinder. cal made of any details, as for example cylinders.

Boring is akin to drilling on a large scale.

Brace.—A 'col used for drilling when the tool has

to be brought to the work rather than the worksto the tool. It is usually provided with a ratcher mechanism, to rotate the drill. The same word is constitutes used to denote stay holding say, two parts of the frame together, or as a verb to the same effect.

Brackst.—In motor-car parlance the fittings, for

BFRACKS.—In motor-car partance the fittings for carrying the lumps are most generally called "brackets," but besides the lamp brackets there may be others in the shape of spring hanger brackets and so forth. The term is somewhat loosely used.

Brake.—A device for retarding a car by retarding the rotations of certain shafts. In practice brakes are usually applied either to the wheels or to the driving shaft of the pract how the practice.

shaft of the gear box. In the former case they are usually of the internally expanding type covered in, and very like an expanding clutch. The other type of brake, exactly opposite in principle, skinown as the external contracting type (see Band

Brake Block, equally frequently known as "Brake Shoe" is the part that is brought into action to press forcibly on the brake drum and so retard its

Braks Horse Power. In an engine worked entirely without friction, the pressures in the cylinders would have their full effect (apart from their losses by would have their full elect (apart from their losses by absorb a good deal of the power, so that the amount actually given offat the engine shad; is materially less than that exerted in the engine shad; is materially less chre, the power at the engine shaft that is the practical measure of the capacity of an engine, and as this factor is usually measured by an instrument that is really a brake capable of measuring the work given off by the engine at any given speed, it is known as "Brake Horse Power

Brake Shoe. See Brake Block.

Brass.-Brass is an alloy composed, roughly speaking, of two parts of copper to one of zinc, although the proportions may be varied considerably. These allows containing more than 80 per cent. of copper exhibit a reddish-yellow colour, while if the amount of copper reddishydiow go per cent, the alloy is no longer yellow. Its average weight is 50; lb. per cub. ft., and specific gravity 8 no. Brass can be cast or rolled, but it is not a very strong metal, being preferably used for the more ornamental parts that are not subject to great stress. It must not be confounded with bronze or gun-metal, The word brass is also used frequently to designate the two halves of a plain bearing, since these parts used to be made of brass, though now usually of gun-metal.

Braze.—Brazing means the process by which brass

is melted, so as to act as a medium for joining one piece of metal to another. Its most usual application is for joining steel tubes to their lugs or sockets, and the process consists of lieating with a blowpipe a cer-tain amount of soft brass or "spelter" with flux (usually composed of powdered borax) until the brass melts and flows into the joints to be connected. The flux makes the molten brass flow into the joints, and when cool it adheres to both surfaces so strongly as to constitute a very strong joint. Care should be taken, however, in brazing to avoid overheating the metal. Considerable heat is required, but only just sufficient heat should be used.

Bridge.-Sometimes a port has to be divided into two or more openings to allow piston rings, etc., to work past it without catching on its edges. The metal from either aide is then carried across the port at intervals, and the metal which thus divides the port is

intervals, and the netal which thus divides the port is known as a bridge.

Bridge (or Bridge Piece) is a term sometime used to designate the yoke pieces used for holding down the valve-chamber caps in certain designs of engine. It is also used largely to designate any clamping-down device in which the clamp is of bridge shape, and also for the piece that carries the contact scree with which the trembler on an ignition coll makes countact, since this bridge piece strides the tembler like a bridge.

Resourse—Convertily speaking bridge preceded.

Bronze.—Generally speaking, bronze is regarded as the same as grunnieral. It is an alloy of copper and tin, although for special purposes small quantities of lead or zinc are alided. It is very widely used for bearings, a good institute for this purpose being cosmon before the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of transfer of poarings, while aluminish and manganese bronze are other compounds poss-sing considerably greater strength than the ordinary gun-metal—gapecially the manganese bronze. The weight of gun-metal varies slightly faccording to its composition, but 534 lb, to the cubic fit, and a specific gravity of 856, are fair

Brush.—This term is usually applied to a device fitted to electrical machines such as magnetos of dynamos, and employed for collecting the current from the rotating armature or communicator of the machine, and delivering it to the stationary wires which conduct the electricity where required. Such a brush is usually made of carbon and should hear as lightly as possible, but quite firmly, on the rotating part from

which it collects the current

Brush-Holder is the fitting for holding the brush

Buckle.—This word is usually applied to the chp that binds the plates of laminated springs together, and at the same time attaches the springs to the axles. It is also used as a compound word (see

axles. It is also used as a compound word (see Turn-buckle).
Bucket Beat.—A small round-backed seaf for single passenger. It is the style of seat usually fitted on racing cars, and is generally made of aluminium.
Buch or Buching.—Is usually a gunnetal tubular bearing, but in many cases the word is applied to any form of liner in a hole of comparatively small size.
Butterfly Nuts.—See Nut.
Butterfly Throttle.—A form of throttle consisting of a circular plate pivoted across its centre, so

that when shut it blocks up the induction pipe, and,

that when shut it blocks up the induction pipe, and, when open, lies along the axis of the pipe.

By-Pass.—When a fixed volume of fluid as, for example, fuel to an engine, is delivered positively and forcibly in a given time, the requirements unight be adjusted by a regulating valve, but if the amount delivered and the force with which it is delivered remain constant, and the valve were shut down, a breakage might result from the pent-up pressure of the fluid. To avoid such a result a by-pass is very useful. It is merely a tube or passage so arranged as to carry all superfluous fluid (over and above requirements) back to its source of supply.

Capticlat.—A type of car body which can be

to carry all supermous must (over and above requirements) back to its source of supply.

Cabrioles.—A type of car body which can be entirely opened or entirely closed at will, the upper part consisting practically of a folding leather hood and the side windows or lights.

Cage.—The withdrawable seating surrounding valve with its walls constitutes the "cage." The word is also applied to the frame for separating the rollers or balls of a bearing.

Calcium Carbide (CaC₂) is the material which, in combination with water, gives off acetylene gas.

Cam.—A cam is a projection on a rotating shaft, the duty of which is to move a lever or tappet as it comes into contact with it at each revolution of the shaft. Cams are most generally employed for operating engine valves, and are pieces of hardened steel (secured to or made in one with the shaft) having the profile of their circumference circular for part of the way round, the projection which lifts the valve rocker or tappet extending around the rest of the circumference circular for part of the way round, the projection which litts the valve rocker or tappet extending around the rest of the circumference. As the tappets are held against the circumference of the can indirectly by spring pressure, sometimes, though rarely, a depression is formed on the cam circumference instead of a projection, in which case the movement of the valve is obtained by the spring being allowed to force the tappet into the depression, the valve being replaced as soon as the circular part of the cain comes to bear against the tappet. These are the two most usual varieties, but cams with sideways action are sometines made having the projection or depression on the side. For operating the projection or depression on the side. the projection of the pression on the sade. For opera-ting engine valves the efficiency of the engine greatly depends on the profile of the cam projection, which has to be shaped so that the tappet or rocker passes, easily from the circular part of the circumference on to the projection or depression and back again. Cams

are also used for operating pumps, etc.

Camber is the amount of vertical curve or bend in

such things as frames or car springs.

Camshaft.—The shaft to which cams are sequred.

In the ordinary four-cycle internal combustion engine the camshaft revolves once for every t o revolutions of the main epoine shaft, and is driven through spur, skew, or bevel gears—or even inverted tooth chain drives, to give the correct speed. As it runs at a slower speed than the engine shaft, the camshaft is often used to drive the inagineto, water and oil

orten used to drive the magneto, water and on pumps.

"ARODY.—A canopy is a light roof supported on pillars, sometimes fitted on cars. It has been displaced in late years by the gape cart hood. Side curtains were usually used in conjunction with these canories.

Cape Cart Hood.—A light hood used on cars with open bodies and extending completely from back to front of the body. It is built up on two systems of hoop sticks, the one set radiating from a centre towards the front, the other from the back. Of late, however, this type has been superseded by one that can be folded by one man. In this the front hoopsticks are supported on a lazytongs arrangement, the back hoopsticks only working from privoted centre. Cape cart hoods are generally provided with side curtains, which can be brought into use or not, as required.

Carboda.—See Calcium Carbide.

Carbod.—The deposit found on the inside walls of cylinder combustion chambers. It is caused by the use of too much lubricating oil which, on working into the combustion space, gets burnt and is deposited in the form of carbon. The tword carbon is also applied to the carbon brushes or carbon contacts in magnetos or other sleet read desired desired.

to the carbon brushes or carbon contacts in magnetos or other electrical details.

Carburetted Alcohol is alcohol in an exceed-

ingly fine state of division, and mixed with air in such proportions as to render the mixture explosive.

Descriptions of the proportions of the proportions are to render the most inflammable of liquid fuels will not thurn without air, but with air mixed in the right proportions they will burn so exceedingly rapidly that the burning constitutes an explosion. The more perfect the mixture the more forcible the explosion, and the carburettor is a device for mixing together the air and fuel before admission to the engine cylinders. The simplest form of carburettor—the surface carburettor—is designed to expose a sufficiently large surface of period to the air to enable the latter, on its way to the engine, to the up a sufficient amount of petrol vapour. Surface types of carburettors, however, have allen into disuse, in favour of the foat feed carburettor. In this petrol flows into of the float feed carburettor. In this petrol flows into of the float seed carburettor. In this petrol flows into a chamber containing a float, and when sufficient has entered to raise the float to a certain level, the float by rising moves a valve which cuts off further supply; consequently the petrol is retained at a constant level in the float chamber, whence it is sucked by the engine through a jet tube having a tiny spray hole. As it issues from the jet, the air, which the engine is also sucking in, mixes with the petrol, and, lades with petrol arout, neases to the engine. As the suck on the netrol sucting the fine service and the period and successful period to a vapour, passes to the engine. As the suck on the petrol is dispressionately less at low engine speeds should be admitted, and these variable relative proportions of air and petrol are obtained in different ways. They air and petrol are obtained in different ways. They may be arranged either by varying the petrol or the air supply. The petrol supply is frequently varied by having multiple jets which ale brought, first one the another, into action according to engine requirements, while variable air supply is usually obtained by designing a carburettor to deliver a very strong mixture and adding additional air, which latter, as it is more or less proportioned to the engine speed and suction, is obtained through a nicely adjusted suction valve, or one concreted by a disubstant moved by the surious

one operated by a diaphragm moved by the suction.

Carburation.—The charging of air with a proper

Garburation.—The charging of air with a proper proportion of petrol vapour to trender the mixture efficiently explosive.

Cardan Joint.—See Universal Joint.

Cardan Shaft.—See Propeller Shaft.

Case Bardening.—Iron or mid steet, which are comparatively soft metals, may be case hardened when a hard surface is required. Since steel is, roughly speaking, only iron combined/chemically with a certain amount of carbon, if the external surfaces or fee piece to be treated can be made toftombine with a certain additional amount of carbon, we shall have steel of a to be treated can be made fortonione with a certain additional amount of carbon, we shall have steel of a surface capable of being made sufficiently hard. Hardening is usually effected by herting the pieces to be treated in contact with horn, bone dust, or anything that can be converted in the process into animal char-coal. Prussiate of potash can also be used. The metal then combines the toughness of the softer metal with the hardness of more brittle steels. The depth of the hardening is varied by the length of time allowed for heating, this varying from one or two to twenty-four hours. When taken out of the case hardening furnace the pieces should be allowed to cool to a suitable temperature-usually dull red heat-

then plumped into water or oil.

Castellated Shaft.—A shaft formed with keys or feathers solid with the material of the shaft, so that any sleeve fitted on to it is bound to rotate with the shaft though it may be free to slide along it. Castel-lated shafts are most frequently employed in gear boxes, to enable the change speed gears to be slid

boxes, to enable the change speet gears to be a into engagement along them.

Casting.—A casting is made from metal that has been melted, and run into a mould to obtain the cor-rect shape. Castings are used where the shapes are too complicated for forging, as, for example, in the case of water jacketed cylinders. Castings can be made in many metals; aluminium, brass, gun-metal, iron and steel being those most usually employed in motor work.

Cast Iron is a variety of iron that can only be worked by melting, and is used for many details in con-struction, especially of such complicated shapes as cylinders, etc. It is somewhat brittle. Its specific gravity is 7:12 and a cubic foot weighs 445 lb.

Gast Steel.—See Steel.
Call.—A single element of an electric battery.
Calluloid.—Often used for accumulator and other Celluloia.—Uren used for accumulator and unaccessory details, is essentially dempressed colloidion-cotton, and so is highly inflammable, though at the time of writing a non-inflammable cultiolid has been announced. Celluloid accumulator cases, etc., may be patched with sheet celluloid treated with amyl-acetate.

patched with sheet celluloid treated with amyl-acetate.

Cantrifugal Pump is one which forces liquid as required by the centrifugal action of vanes secured to a shaft and whirling round in a casing containing the liquid. This whirling action tends to throw the liquid outwards and so it is discharged through pipes leading from the casing.

leading from the casing.

Chain.—The various types of chains will be found
under the headings of "Block," "Silent," and
"Roller Chains." It is enough here if we compare the different types. The block chain, a now
comparatively old-fashioned and goue out of use for
motor work, having been super-seded by the roller
chain, which is considerably more efficient. The roller
chain, however, stretches and then makes a crackling
noise, caused by the fact that, owing to the general
stretch, the rollers enounter the teeth of the chain stretch, the rollers encounter the teeth of the chain wheel too much on the top and consequently finally wheel too much on the top and consequently finally spring down into their place with a jump instead of quietly rolling into their proper position. To obviate this, the inverted tooth type of chain has been intro-duced, for this type is practically independent of alterations of the pitch, within reason.

Chain Adjuster—A device by which the centres of the chain driving and driven wher is may be altered relatively to each other to allow for the stretch of the

Chain Pitch.—The pitch of a chain is the distance from the centre of one link to the centre of the next, and the pitch of a chain wheel is the distance from a point on one tooth to the corresponding point on its

neighbour.
Chain Sprocket.—The toothed wheel by which the power and motion of the engine is transmitted to the chain.

the chain. **Transmission.**—Used to be very largely employed in car design, but the introduction of the live axle has largely put it out of count, except for heavy utility vehicles, and even here it is losing ground. The most usual form of chain transmission was by side chains. In this arrangement the engine, through the usual gear-box economy, drove a cross counter shaft fitted with balance or deferential goar, so that each end of the counter shaft could move independently of the other. Each end was fitted with chain strockets and other. Each end was fitted with chain sprockets, and from these the power was separately conveyed to chain-wheels on each of the back road wheels of the car. Sometimes chain transmission is employed with a live axle, the driven chain wheel being secured to the casing or spider of the balance gear. In certain cars, too, it is adopted to transmit the power from the engine to the gear box, while in the latest type of omnibus each separate speed in the gear box is driven by a very short inverted toolt type of chain. Chains of the inverted tooth type are also coming into growing use for the driving of engine camshafts and magnetos.

Chain Wheel.-A toothed wheel that is driven by a chain. These chain wheels are generally secured

to the road wheels.

Change Speed Gear.—See Gear Box.
Change Speed Lever.—The lever by which the change from one year to another is operated. This is usually placed at the side of the car close to the brake

hand lever, but on certain cars it is placed on the steering column heneath the teering wheel. Channel Iron or Steel is so called when rolled to a sort of trough section. The various parts of the ordinary pressed steel frames on cars are of this

Charge.—The supply of air and fuel for the cylinders of an engine. To charge accumulators with electricity they should be charged at a fen-hour rate, suitable resistances being interposed in the circuit, if necessary, to give this rate of charging.

Chassis.—There is no absolutely hard and fast defiation of Chassis. Some makers seem to think a chassis includes the wings or mudgards and foot-

boards; others take a less liberal view; but for general purposes it may be defined as the complete mechanical department of a car as distinct from the body.

dopartment of a car as distinct from the body. One of Cheok Valve-who which will only allow of flow in one direction:—A non-return valve.

Choke.—Where the petrol issues from the carburettor jet it is desirable to bring the air for the charge into contact with it, and therefore the passage by which the air passes is generally contracted at about this point, which is accordingly called the choke.

Chrome Steel and Chrome Nickel Steel are materials which have come to be a good deal used for car construction, m such details as the gears, crank shafts, etc., as both these materials are exceedingly strong and tough, and do not suffer from fairue. ingly strong and tough, and do not suffer from fatigue, or what is popularly idescribed as "crystallisation of the metal," in the same way as steel or non.

Circular Pitch.—The distance from the centre

of one tooth to the centre of the next in gear or chain

wheels.

Circulation.—Complete and uninterrupted flow in a circuit. The word is generally applied either to the flow of the cooling water from the cylunders or the flow of therefore oil—more generally the former.

Clearance.—When there is room for one moving part of mechanism to move past another, or past a structural part of the maclinie, the space to spare between the two parts is known as clearance.

Clinometer.—An instrument for measuring that

Clinometer.—An instrument for measuring the steepness of a gradient or hill.

Clip.—A spring fastening used in rubber pipe connections, especially for those on the water

circulating system.

Clutch.—A device by which the power of the engine may be transmitted at will to the gear box and car wheels. If we except one or two unusual type such as magnetic clutches, the clutch invariably depends on friction. One part of the clutch is secured to the engine shaft and rotates with it, the other part (which is free when the clutch is out of action) being canadic of being slid longitudinally along its shaft into such hard and close contact with it that the two parts grip together, so to speak. There are conical, plate and expanding types of clutches, for which see under these headings.

Clutch Stop.—When a clutch is taken out for change of gear, it often happens that the clutch shaft and with it the primary shaft of the gear box is revolving too rapidly, owing to the momentum already imparted to it by the ergine; accordingly, a clutch stop is often fitted to cope with this difficulty. It is in fact a small brake, which, when the clutch is pulled far out of engagement, reduces its rotation speed and that of the clutch shaft to one more suitable for gear changing.

Cosch Work.—See Body.

Cock.—Another word for tap.

Coll.—A coll is a transformer for increasing the voltage of a current, or rather for inducing higher voltage.

This increase of voltage depends on the windings of the coll and is proportionate to the number of the -When a clutch is taken out for

Inis increase of voltage depends on the windings of the coil and is proportionate to the number of the windings of the secondary coil relatively to those of the prinary, if a current of 4 volts on the prinary circuit is passed through a coil in which there are one thousand turns or windings of the secondary coil to every one of the prinary, a current will be induced on the secondary circuit equal to 4, row ovits, and so on. The word "coil" is also used in connection with surfaces used as are used for valves (northary helical surfaces are the sare used for valves (northary helical). springs such as are used for valves (ordinary helical springs) while tubes are sometimes made up in coils for radiators, burners, or boilers.

Collar.—A projecting ridge, either formed solid on a shaft or by a ring on the shaft. It may really be described as the reverse of a groove in a shaft.

scribed as the reverse of a groove in a shaft.

Combustible Miltures.—When inflammable fuel and air are mixed in correct proportions they will burn, and will burn so rapidly that their burning constitutes an explosion—which is after all only extremely rapid combustion.—For practical purposes the best mixture with petrol is a volume of petrol to a of air.

Combustion—In an ordinary steam engine combustion means the burning of the fuel in the fire box. In internal combustion engines trefers to the explosion

In internal combustion engines it refers to the explosion

of the fuel in the cylinder.

Combustion Chamber—The space in the cylin-

der above the piston in which the explosion

ring.

jommutator. — Reference to "Alternating Current" will show that the natural tendency for a dynamo is to give an alternating current, with impulses first in one direction and then in the other. To obtain more than the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of th a continuous current, every other impulse should be referred, and to this end a commutator is fitted. The word has got somewhat misused, and is often applied tact maker and breaker for the ignition

to the contact maker and breaker for the ignition.

Compensating Mechanism.—It is desirable that the braking force of the wheels on each side of a car be equal, and to ensure this the braking power car be equal, and to ensure this the braking power is frequently transmitted through compensating mechanism. This is usually effected through a compensating lever, which is similar in principle to the beam of a balance. The pull of the driver's brake lever is transmitted to a point at the middle of the compensating beam, which may lie transversely across the car, and from each end connection is made to the brakes on one of the wheels. Sometimes a mechanism brakes on one of the wheels. Sometimes a mechanism similar to that of a balance gear (see under this heading) is employed for the same result.

Components.-The larger parts, such as axles,

components.— Includer parts, such as also, springs, etc., that go to the making up of a car.

Compound Engine.—A compound engine is titted with two sizes of cylinder. There is the high pressure cylinder of comparatively small size, and the low pressure cylinder, usually of about double that capacity. Its principle is this:—after the steam has done its work in the high pressure cylinder, instead of expounting into air or is the order use series. exhausting, into air as in the ordinary engine, it ex-hausts into the low pressure cylinder. As the steam hausts into the low pressure cylinder. for at present the system is practically confined to steam) has to fill more space, it has a certain amount of freedom in exhausting into the larger cylinder, of freedom in exhausting into the larger cylinder, where it works at a very much lower pressure; but as it works on a much larger area of piston, the power-result in each cylinder is, roughly speaking, much about the same. It must not be thought that the steam is used twice over. That is a misleading way of putting it. The compound engine only enables the steamed be worked more expansively than would be costible in a non-compound engine. possible in a non-compound engine

Compression.—When the mixture of fuel vapour

and air, which by its explosion drives the engine, is at the moment of explosion compressed, it results in as explosion of considerably more force. Consequently, in ordinary practice it is customary to compress the charge before firing it. Though a lot of the engine energy is wasted by thus compressing the charge, the gain of extra power from a compressed charge explosion exceeds the work lost in compression.

Condenser. —In a steam engine a condenser is a device whereby the exhaust steam, instead of being allowed to pass out into the atmosphere and be wasted, is cooled and transformed back again into water which can again be used in the boiler. A condenser, therefore, enables a car to travel much further distances fore, enables a car to travel much further distances without the necessity for stopping to take in fresh water supplies. The condensing action may be obtained either by air-cooling as with a radiator, are by exhausting the steam on spraces cooled by water. In the latter case the water supply carried by the car, can be used and thus a condenser may, to a limited extent, also be made to heat the feed water, and thus economise heat, In electrical ignition we also find condensers. Here a condenser is the equivalent of an air vessel on a water pump. It gives a stronger stark at the plant and the plant of the condensers are reported to the plant of the condensers.

and the pump. It gives a stronger spark at the plug, and prevents sparking at the contact maker points. 

Conduction.—When one particle of a substance has more heat than its neighbour, the heat end to be a substance has more heat than its neighbour, the heat than its neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the heat than the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour, the neighbour than the neighbour the neighbour that the neighbour the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour that the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the neighbour than the equalise matters and to flow from the one to the other, and even when two bodies of different temperatures are glaced in contact the same thing happens. This process goes on from particle to particle until the whole substance is at a uniform temperature. Conduction is in fact the transferring by contact of heat, due to difference of temperature.

Compound Wound.—When the windings of the magnets on a dyname are formed by both series and stunt circuits, the machine is said to be compound wound. See Beries Wound and Bhurt Wound. Come Clutch—the most

common—a large diameter circular cone, usually leather covered, is made to slide axially at will into engagement with a hollowed out conical cavity in the fig was, the frictign being obtained between the sloping walls of the cavity and those of the cone. The angle of these surfaces should be at about 12° or 3° with the axis of

Conical Valve.—Valves of the poppet or mush-room type (the latter name best describes them) are generally chamfered or bevelled off all round their lower, circumference where them wer circumference where they fit on their seatings, the seating being clamfered at a corresponding angle. The seating thus tends to cantre the salve dead true on to it. An angle of about 15' is the most suitable for the bevel or chamfer in such cases.

Connecting Rod.—The connecting rod is that

Connecting Rod.—The connecting rod is that part of an enguse which transforms the reciprocating, or up; and down movement, of the piston into the circular motion of the crank take. The end which is secured to the piston and moves up and down with it, is free to swing, and thus enables the other end to follow the circular path of the crank pin, which is provided with bearings, enabling the rod to grip the crank pin to turn in the bearings, and tightly enough for the crank pin to turn in the bearings, and tightly enough to prevent any shake or knock. Owing to balancing requirements the weight of the connecting rod should be kept as low as possible consistent with strength and that it swh connecting consistent with strength, and that is why connecting rods are usually made of hollow tubular form or of H

Contact Blade .- The spring blade of the contact

maker.

Contact Maker.— Contact makers are of two sorts, the "make and break," and the "wipe." In the former a rapidly revolving can on the half-time shaft, acting on a plate spring, moves the latter against a contact screw, so that the circuit is quickly made. The projection or depression in the cam rapidly passing on, then leaves the spring free to jump away quickly and break contact. This rapid make and break is essential to get a good spark. The plate is shod with steel where it bears on the cam, and sitted with a little plece of platinum where it makes contact. In the wipe contact a steel-shod spring wiper bears on a circular contact maker. This is of insulabears on a circular contact maker. This is of insulating material except at one point, where a metal plate, connected metallically to the frame, is let in. When the shaft on which the contact maker, in revolving, brings the wiper into contact with this place, the circuit is foined up, but Igs, necessary to break it to get a good spark at the plag, and therefore the coil in wipe systems is fitted with a trembler, for which see under this heading. On a magneto a contact maker is also fitted

aso ntted.

Contact Platinum or Point.—The platinum point on contact screws, or the platinum on the blade. These should be kept clean and free from pitting to ensure their making good contact.

Continuous Gurrent.—An electrical current is continuous when it flows entirely in one direction—the

reverse of an alternating current—and when taken from a dynamo the continuity is assured by means of the commutator.

Control.—Broadly applied to all the means of regu-lating the car when in action, but to some extent it is narrowed down to apply inerely to the levers by which such regulation is carried out, especially those that

regulate the engine.
Convection.—When fluid is heated locally, the Convection.—When fluid is heated locally, the part heated has a tendency to rise above the rest, this tendency being 'in general proportionate to the heat applied. This can be seen by boiling fluid in a test-tube, when that at the bottom, which is most strongly heated, rises rapidly to the top. This is known as "convection." When the fluid rises, its place is filled color cooler fluid, and this state of affairs, constantly going on, results in currents being set up which are known as "convection currents." The principle of the convection current is being largely used for circulating of which will be found explained under the heading of "Cooling Swstem."

"Cooling System."

Gooling System.—The heat generated in the cylinders of an explosion engine is such that, unless it

were counteracted it would burn all the oil, and result in the piston sticking tight in the cylinder. Means are taken to reduce this heat either by cooling the cylinders with a rush of air, or by surrounding the cylinder barrels with water that, as fast as it becomes heaten is taken away to be cooled and replaced by already cooled water. Water cooling may be carried out either by forcing the water through the cylinder jackets with a pump, or by using the natural circulation that the convection currents set up. This last is called the thermosyphon system.

vection currents set up. This last is called the thermosphon system.

Goppar.—A metal that chemically is an element and known by the symbol Cn. In motor work it is usually used in sheet or tubes. Copper is also very useful in plating, for to get the best effect, silver and nickel should be deposited on a film of copper, with which the object to be plated is first covered.

Cotter.—Usually applied to a tapered pin, either flattened or round in section, chiefly used forwing collars, levers, etc., to shafts.

Countersink.—When a hole is driven for the accommodation of a rivet or bolt, and it is undesirable that the head of the rivet or bolt should project above the surface, the hole is countersunk; that is to say, at

the surface, the hole is countersunk: that is to say, at the end of the hole a cavity is made to accommodate the head of the rivet or bolt.

the head of the noise a carry's linker to accommodate the head of the rivet or lost.

Counds.—An entirely enclosed type of body. The term is often applied to two-centred enclosed bodies, either of the catriolet or lumousne type.

Counds.—When two forces act around a point the one on one side acting in one direction, the other of the other side of the point acting in the other, the two, if acting in connection together, or acting on the same body, would tend to twist that body around the point. This is called a couple, an excellent illustration of which is afforded by the action of a driver at his steering wheel: when he turns his wheel, on one side of the centre the one hand pulls in one direction, on the other side of the centre he pushes in the opposite direction with the other hand, the whole turning the wheel round, Coupling.—See Joint.

Crank.—If a slaft, intended to rotate, is bent in such a way that the bend affords an arm which acts as a tever for tarning the shaft round, it constitutes a crank. The bend may be at the end of the shaft or in the middle—it is still a crank. A good example of the principle

—it is still a crank. A good example of the principle of a crank at the end of a shaft is found in the starting —it is still a crank. A good example of the principle of a crank at the end of a shaft is found in the starting handle, but in engine shafts, as they usually have to supported on both sides of the hend, the shaft is formed with a bend or "throw" in it so that the length of shaft on one file of the throw is in alignment with that on the other. Also, as the connecting rods have to work at right angles to the shaft these throws must be formed with a bearing along their niddle part that is parallel to the shafts. The throw of the crank, that is to say, the total diameter of the circle traversed by the crank bend in a single revolution of the shaft, equals the stroke of the cylinder, a factor upon which the power of the engine largely depends. A crank shaft should be of tough steel, and requires to be most carefully made to obtain good results. In motor-cycle engines where only a single throw is required the crank is formed of two flywheels joined by a crank pin, and with concentric steel journals that correspond to the shaft journals.

Crank Bearing.—The main bearings of a crank shaft sometimes placed intermediately between the crank throws and at each end. On many engines a bearing is only placed between each pare of crank throws, and some crank shafts of cour-cylinder engines only have bearings at the ends, although this involves a very massue crank shaft.

throws, and some craits shafts of four-cylinder engines only have bearings at the ends, although this involves a very massive crank shaft.

Crank Gase or Chamber.—The enclosing part or the casing in which the crank shaft revolves.

Crank Cheek, or Crank Wab.—The side of the crank throw between the crank shaft and the crank pin.

Crank Effort.—See Torque.

Crank Handle.—A term sometimes applied to the starting handle, but equally applicable to any handle on the crank system.

Clause Fig...—The locural that rotates in the big and

Crank Pin.—The journal that rotates in the big end bearings of the connecting rod, and is usually placed between the crank cheeks.

Grounhead.—In double acting steam engines, in

which a piston rod carried through a gland in the front cylinder cover has to be used, a special forward connection is fitted to enable the connecting rod and piston to be suitably connected together. Also, the crosshed not only serves as a connecting link between the piston rod and connecting rod, but also ofters convenient surfaces for applying to the guide bars which ensure perfectly straight motion for the piston rod.

Gross Member.—A term usually applied to the tules or lengths of pressed steel lying across the frame.

Grown Wheal.—The large hevel wheel secured to the differential casing of a counter shaft, or back axle, which is driven by a bevel pluion from the propeller shaft.

Crucible Seal.—Another name for tool steel, which is made of bister steel melted in a crucible.

Gurva.—See Diagram.

Gushionlag.—In a steam engine, with a piston

Gurva.—See Diagram.
Gushioning.—In a steam engine, with a piston
moving backwards and forwards rapidly, it is desirable
at high speeds to admit steam for, say, the outward
stroke, before the piston has quite finished its inward
stroke, and this has an effect on the rapidly reversing
piston, described as "cushoning."
Out Off.—In the cylinder of a steam engine the
steam is not usually supplied from the boiler during
the whole of the stroke, for it is found much more
conomical (considering the amount of power obtained
for the amount of steam used) to cut off the supply
when the piston has traversed only a part of the stroke

for the amount of steam used) to cut off the supply when the piston has traversed only a part of the stroke rauging anywhere from 15 per cent. to 75 per cent. of the total stroke. (See Expansive Working.)

Cut-Out.—In car electric lighting systems the dynamo, if driven at a suttible speed, can charge the accumulators, but when the car, and consequently the dynamo, runs very slowly, the latter does not generate enough electricity to charge the accumulators. If nothing were to prevent it, the current would then flow out from the accumulators to the dynamo instead of the other way, with damage to the dynamo windings. To prevent this a device known as a "cut-ont" is employed automatically to disconnect the dynamo and accumulators as soon as the speed of the former falls below a certain point.

certain point.

Cycle of Operations.—In internal combustion engines at present either of two principles is adopted. These are known as the four-cycle and the two-cycle. These are known as the four-cycle and the two-cycle, in the cylinder of a four-cycle explosion takes place only every fourth stroke, or every two revolutions. In a two-stroke engine an explosion is given every two strokes: in other words, in every revolution. (See Four Cycle Engine and Two Cycle Engine, in the cycle Engine and Two Cycle Engine in which the piston is driven up and down.

Cujinder.—The tubular shaped part of the engine in which the piston is driven up and down.

Cujinder Capacity is the amount of volume of gas that a cylinder can hold. It is made up of the cubic canacity of the combustion chamber together.

gas that a cylinder can hold. It is made up of the cubic capacity of the combustion chamber together with the volume swept by the piston in its stroke.

Damping.—Damping is the process of deadening the shock of sudden movement. Dampers are often used on the springs of cars to check their rebound.

Dash or Dashboath.—The board or panel in front of the driver. It is a term borrowed from the horse vohicle, but on the motor car affords accommodation for the various gauges and many of the fitments such as lubricators, etc.

Dashpot.—A dashpot is a means of damping sudden motion, the usual form consisting of a piston.

Dashpot.—A dashpot is a means of damping studen motion, the usual form consisting of a piston, moving in a cylinder and checked in that movement owing to the fact that fluid, allowed into the cylinder, cat only escape at a certain rate. The presence of the fluid acts as a brake on sudden piston movement.

Dead Centre.—When the crank pin is at a point nearest to or furthest from the cylinder, and the centre line of the crank web is in line with the centre line of the connecting rod, any thrust transmitted through the

one of the crank web it in the with the centre time of the connecting rod, any thrust transmitted through the latter from the piston exercises no useful turning effect, since the thrust is purely radial without any table ential tendency. When at either of these points the crank is said to be on one of its dead centres.

Deflection.—The deformation due to bending

Deflector.—Another name for a baffle plate.
Delivery Valve.—A valve which allows fluid to
pass the supply opening from a pump.

Demagnetise.-In the process of time and use the magnetism of a dynamo or magneto magnet be-comes weaker and weaker, and this process is known as demagnetisation. When they become too weak they have to be re-magnetised by passing an electric current around them.

Denaturise.—To render undrinkable. The word is used particularly in connection with the manufacture of althohol for industrial purposes.

Densimeter,-Sometimes known as hydrometer, is an instrument for measuring the density of liquids, and used to be much employed by motorists for testing

and used to be much employed by motorists for testing the density of their petrol.

Detachable Rim.—An ordinary artillery wheel is made up of the hub, spokes, felloe, and rim, which latter holds the tyre. To facilitate tyre repairs, the rim is sometimes made quickly and easily detachable from the rest of the wheel, if the whole wheel is not made detachable

made detachable Wheel.—A wheel specially designed and made to be quickly and easily detachable. The possibility of tyre troubles are chiefly responsible for the advent of the detachable wheel which is now largely used.

vent of the detachable wheel which is now largely used.

Diagonal.—Some frames besides being provided with the ordunary longitudinal and transverse members are also made with diagonal braces or struts joining the end transverse members with the longitudinals. This to guard against the frame being pulled out of square.

Diagram.—The curves on a diagram often afford very useful means of showing a incchanical action graphically. These curves are quite simple to read, The actions they represent are usually made up of two main factors. We will take, for example, the action of cases in the cylinder. From moment to moment their gases in the cylinder. From moment to moment their pressure varies as from moment to moment they move the piston and so alter their volume in the cylinder. In other words we want to show the continuous change other words we want to show the continuous change going on between pressure and volume. In a curve for this purpose, therefore, the horizontal distance usually represents the length of stroke, in other words, the volume that the gases have to fill—while the vertical height represents the pressure. If one wants to find the pressure at any point during the stroke one has only to take the vertical height of the curve at that point on the stroke as represented in the diagram.

Diametral Pitch is the unit form of measurement

Diametral Pitch is the unit form of measurement used for spur wheels and their teeth. The diametral pitch is the number of teeth to every inch of the diameter of the spur wheel.

Diaphragm.—A thin plate of flexible metal some-times employed for regulating the flow of additional air to the engine. In such a case it is placed so that when the suction of the engine acts on it it bends, and this movement of the diaphragm is generally transmitted to a

movement of the displiraym is generally transmitted to a lever designed greatly to magnify the action, which when magnified is u; d for opening the additional air valve. Differential.—See Balance Gear.

Direct Drive.—When the engine power is being transmitted direct to the gegring by which the back le is directly driven, without the intervention of any other gear wheels, the drive is said to be direct. The term is not, strictly speaking, accurate, since the gearing of the live azle is interposed between the engine and the back will els.

Dirigibility.—The capacity to be steered.

Dirigibility.—The capacity to be steered.

Dirigibility.—The standard of the course of the voltage. Great care should be taken that accumulators, which has the effect of lowering the voltage. Great care should be taken that accumulators are not discharged to rapidly, for too rapid discharge

are not discharged too rapidly, for too rapid discharge tends to buckle the lead plates.

Disengage.-Usually applied to the clutch, when it means to take out of engagement. It inconcumes also applied to gear wheels when it means to take one

gear wheel out of mesh with another.

gear wheel out of mesh with another.

Distributer.—A device arranged to enable a single-Nembler coil to be used on multi-cylinder engines. As the contact maker acts for each separate cylinder the current ordinarily has to be transmitted to each separate coil, whence it is carried to each separate lug. With a distributer high tension current is supplied from a single coil straight to the distributer, which with its revolving part then makes counter to as is supplied from a single con straight to the distribution which, with its revolving part then makes contact so as to pass the current first to one sparking plug then to another, and so on in due rotation.

Distribution Gear.—Comprises the shafts that operate the valves and ignition of an engine, together with the great wheels through which they are driven.

Dog Clutch.—With a dog clutch the one member is put intigrangement with the other by shding it upagainst the other so that jaws or arms (projecting longitudinally along the axis form the end faces of both members) engage with each other.

Double Acting.—A double acting engine is an engine in which the power is apphed first to one side, and then to the other of the piston. At present the internal combustion engine liss not reached the stage of being double acting for road transport, but the

internal combustion engine has not reached the stage of being double acting for road transport, but the principle is commonly applied to steam engines.

Drain Cook.—A tap usually at the bottom of the crank case to draw off superfluous oil as required, but the word is also applied to cocks leading from the bottom of steam cylinders and steam valves to enable water to be drained from these parts.

Drive.—Signifying transmission or power.

Dual Ignition gives the use of two forms of ignition. It is usually used to facilitate starting, in which case the ordinary accumulator ignition is employed in conjunction with magneto; the former enabling an engine to be started better than on the magneto. Sometimes, however, where exceedingly magneto. Sometimes, however, where exceedingly great "hability is required, dual magneto ignition is

Drum .- The rotating part of a brake, against which the shoes are pressed to retard the car.

Dry Cells are used in primary batteries to supply electricity, in cases when it is desirable that the batteries should be made up of components that do not spill.

Duct Another word for a passage for petrol, etc. Ducility is the capacity of a metal to be drawn out under a hummer, or in the rolling inits.

Dumb Iron.—The pieces of metal, usually forgings, that form an extension of the frame longitudinal, and

at the same time act as a bracket to carry the front ends of the springs at the back or front.

Dynamo.—A machine for producing electricity, which it does by means of an armature driven round between the poles of a magnet or magnets. Each time each coil in the armature cuts across the magnetic librar of few batteries. lines of force between the poles of each magnet elec-trical current is set up. Broadly speaking, dynamos are of two sorts—alternating and continuous current— for which see under these headings.

Dynamometer.—An instrument for measuring power. The dynamometer as we know it to-day is usually employed for measuring the brake horse-power of engines, and is virtually a brake for absorbing by friction, and measuring the power given by the engine.

Dynamotor.—An electric motor is merely a dynamo reversed. As the former, it can produce by the rotation of its armature a flow of current along a circuit, but if the process be reversed, and current be circuit, but it the process he reversed, and current be passed along the circuit, it can rotate the armature and thus convert the dynamo into an electric motor. Each type of machine is generally specially designed for its own purpose, but in a "dynamotor" we find the two functions combined, usually as a dynamo for lighting and a motor for engine starting.

Earth.—In certain ignition systems the current is, at one point on its journey, taken through the frame of the vehicle, and as far as motorists are concerned, that part of the circuit represented by the frame of the machine is the earth, for it is supposed to pass through the earth on its return. The phrase is somewhat of a

misuomer.

Ebonite is a non-conducting substance used in electrical work for insulating purposes. It is black and capable of taking a lugh polish, but, though tough up to a point, will not bear any great heat.

Ecoentric.—An eccentric is a device for converting the rotary motion of a shaft into the reciprocating motion of such things as pump pistons, etc. It is in reality a crank with the crank pin diameter so enlarged as to surround even the shaft (the centre of which, of course, does not coincide with that of the exaggerated crank pin or eccentric. It is not provided that the control of the course of the control of the course of the control of the course of the control of the course of the control of the course of the control of the course of the control of the course of the control of the course of the control of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of the course of crank pin or eccentric; hence the name). An eccentric is composed of two essential parts; the sheath and strap— the sheath being the equivalent of the exaggerated crank

pin, and the strap corresponding to the bearing of the gend of the connecting rod, for the eccentric rod is rigidly connected to the strap. The shaft rotates in the strap, and in so doing imparts 9 reciprocafting movement to the eccentric rod. The strap is usually formed with lips on each side fitting into corresponding grooves on the sheaf, to obviate sideways motion.

**Buttleanew* is the ratio between the ideal and the actual in certain qualifications, such as the capacity for converting heat into work, speed into power, and so on. Among the usual efficiencies, to be dealt with in motor work, is thermo-dynamic efficiency, which means the ratio of heaf as represented by work, given out by the engine compared with the heat primarily supplied to it. Mechanical efficiency is another typical case. This, of course, applies to the unchanism of the engine and represents the amount of power actually given off usefully by the engine at the crank shaft, as corl pared with the actual power indicated in the cylinders; in other words, it gives an indication of the loss caused by the mechanism intervening between the crank shaft and the cylinder. Transmission efficiency is another frequent example. More power has to be put in at the driven end of a transmission system than comes out at the driving end, a certain amount always being wasted in friction, etc., and efficiency the becomes a wassure the driving end, a certain amount always being wasted in friction, etc., and efficiency then becomes a newsure of the power lost. Efficiency is usually stated by giving the percentage of the real in terms of the theoretic maximum.

Blactric Car.—A road car driven exclusively by electricity. This always means a car driven by electric motors supplied with electricity from batteries carried motors supplied with electricity from hattenes carried on the car, and changed every 40 miles or so as a rule, although vehicles have been known to run more than 120 miles on a single charge. For heavy work such as motor omnibuses, however, electric vehicles are occasionally used in which the current for the dynamos is supplied from a central station through an overhead wire and swivelling trolley-pole, as in train-car practice.

Bleatric Lighting System.—Usually in the main wade up of advance and serumilators, with an

main made up of a dynamo and accumulators, with an automatic cut-out (see **Gut-out**) to disconnect dynamo as soon as its speed falls below a certain point. The electric light system also includes a means of checking the dynamic output above certain speeds, so as to flain-tain a constant output in spite of varying car speeds. This regulation of mechanism output is usually effected by the arrangement of the windings of the dynamo.

Electrolyte.—The dud contained within the cell

Siectrolyte.—I needed contained within the cein of an electric battery.

Electro-Enginet is a magnet in which the magneting force is generated or greatly intensified by an electric current passing around the magnet.

Elliptical Springs.—See Springs.

Elliptical Springs.—See Springs.

Engine .- For motor work two media are used for Bhgine.—For motor work two media are used of dring purpose, steam and explosive pressure of gases, the latter being primarily obtained within the cylinder of the engine, which are therefore called internal combustion engines. Steam engines may be double or single acting, that is, the steam may act on one side of the platon or alternately on both sides, each double acting cylinder.

acting, that is, the steam may act on one side of the piston or alternately on both sides, each double acting cylinder having twice the frequency of impulse of a single acting. Also steam engines may be non-compound or compound (see latter heading). Internal combustion engines for ar work usually obtain their power by the explosion of petrol with air, but some use paraffin, and a few run on alcohol or benziue. At present they may be either of the two or four cycle type (see these headings). Ingine Brake.—A device by which the compressive power of the engine cylinders can be used for retarding the progress of the vehicle.

Ingine Brake.—See Self-Starter.

Epigyglic Geap.—A form of transumsson in which speed variation is obtained through driven gears arranged to rotate or travel around the driving gear, whence the revolutions of the gear are again transuited to a shaft in alignment with the driving shaft. On its high speed the gear is usually arranged so that the driving effort is balanced in two opposite directions and thus the gear locks itself and revolves as a solid mass giving direct gear. The changes are usually

effected by bringing into action brakes or clutches affecting the different gear variations.

Evaporate.—To convert a liquid from its liquid form into vapour or gas.

Exhaust.—The waste gases from an engine.

Exhaust Pipe.—The pipe by which the exhaust gases flow from the cylinder.

Exhaust Port.—The passage by which the gases flow from the cylinder to the exhaust valve chamber.

Exhaust Stroke.—The half-revolution in an engine during which the exhaust valve is held open and the piston on its stroke is sweeping out the products

engine during which the exhaust valve is held open and the piston on its stroke is aweeping out the products of combustion past the exhaust valve to regulate the flow of exhaust gases from the cylinder.

Exhaust Valve.—The valve to regulate the flow of exhaust gases from the cylinder.

Exhaust Valve Lifter.—A device, generally employed on motor cycles, for holding the exhaust valve more or less open, and so relieving the compression in the cylinder, it can be used to overcome the compression and inclitiate starting, or to regulate the speed of the engine by weakening the explosion effect, although for this latter purpose the throttle and spark variation lever are preferable.

Expanding Clutch.—A friction clutch in which shoes, by means of toggie joints or other mechanism, are made to press tightly against the inner circumference of a drum, whence the movement is transmitted to the shaft to which the shoes are secured.

Expandion.—The tendency to mcreave in volume.

are made to press tightly against the more circums ference of a drain, whence the movement is transmitted to the shaft to which the shoes are secured.

Expansion.—The tendency to increase in volume.

Expansion.—The tendency to increase in volume.

Expansion.—The tendency to increase in volume.

It is not to the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaft of the shaf

attought the ane valve does not saint quickly enough, these explosions may spread to the carburetter on the one hand, while if the engine is missing fire and so sending unburnt charges into the silencer, may ignite from the engine, flashing into the silencer, may ignite the hitherto unburnt charges in the silencer and cause

the hitherto unburnt charges in the silencer and cause an explosion sheroin.

Fan.—A device similar to the entitating fans (with which sail are familiar) is often placed behind the radiators to encourage the flow of cooling air by rotating at high speed. These fans are usually driven by belt from the engine, but in some cases the fly wheels of the engine are formed with spokes shaped so as to take the place of the vanes of the fan.

Faucet, the same as Spigeot, which see.

Fauther.—A key, usually a long one, but so arranged as to permit the wheel or other fitting that it secures to the shaft being shid along, at the same time compelling it to rotate with the shaft. Sometimes the feather is secured to the shaft, shaft, sometimes the feather is secured to the shaft.

feather is secured to the shding fitting and shdes in a long groove cut in the shaft.

Feed.—The supply of oil, fuel, or water. It may be fed from the tank to the carburetter by gravity or by pressure obtained from an engine driven pump, or from the exhaust to the engine. The same applies also to the oil. The term water-feed is used in connection with steam engines in which the water is supplied to the boiler by a pump or by an injector.

Felloe.—The wooden rim of a wheel into which the

outer ends of the spokes butt, which in turn is surrounded by the steel rim, which constitutes the type in the case of hard tyre vehicles and which accommodates the tyre in the case of indiarubber shod vehicles.

Fibre.—A hard material produced by secret manufacture from vegetable fibre, and used chiefly for in-suffiting purposes, although it has been used for clutch surfaces and brake shoes. Fibre can be cut by tool suitable either for wood or from. It is usually of a reddish colour, although black and even grey fibre can be obtained.

Filter.—An arrangement for arresting the passage of foreign matter that may be in the oil or petrol. Filters are usually placed in the inflow of a tank and are composed of fine wure gauze. In many systems of lubrication, however, the filter is located at the bottom of the engine crank case. In such instances the filter should be withdrawable without letting any of the oil sound be whitewards who tetrus any of the don't out of the crait case. In the writer's opinion the single filter usually used is not sufficient, and two or three might with advantage be introduced in the circuit followed by the oil or petrol.

Fire Box is that part of a boiler in which is the

fire that raises the steam.

First Speed.—The lowest forward gear on a

Flanged Joint.—When the ends of pipes or other similar parts are provided with annular discs, the bases of which, butting up against each other, are clamped together by screws (thus securing the pipes together), the joint is described as a flanged joint. The flange may also be used to secure the pipe to any flat surface. Note, for instance, the way in which appears to right pipes are held to the submidger of exhaust or inlet pipes are held to the cylinders of

exhaust or much pages.

Flexible Shaft.—For very light work, as for example the driving of a speedometer, a flexible shaft is used. It is often joined on the same system as that used by dentities for their drills, and is more or less an encased coil of wire or strip metal, which, while capable

of begying, will transmit rotary movement.

Filten Plate is a deep fat plate of metal bolted to the side of wooden frame members to strengthen them. The wooden frame and fittch plate is seldom, if ever, made now.

Float Spindle.—The spindle which is moved by the float when it rises, and which shuts off the petrol

supply. Flooding.—To ensure that the engine shall get a proper supply of fuel at starting, it is sometimes customary to hold the foat spindle off its seating in order to ful the carburetter with fuel, Sometimes the spindle is 'sjoggled' np and down; this is known as "tickling" the carburetter.

Flush Sided Body.—A body in which the sides are without any sudden projections or depressions.

Flux.—See Brazing and Walding.

Fly Wheel.—A heavy wheel—or at any rate a wheel with a heavy rim-secured to the crank shaftfof the engine. The weight of the wheel gr tis rim, once the engine is movic," tends to keep it moving, and thus by the momentum of its mass keeps the shaft rotating during the intervals between the impulses. -To ensure that the engine shall get a

rotating during the intervals between the impulses.

Fore-car.—The front two-wheeled attachment

fitted to motor cycles for carrying passengers, etc.
Forced Circulation.—When lubrication & the

cooling water is circulated by a pump or other means of pressure, the circulation is called forced.

of pressure, the circulation is called forced.

Four Gyole Engine.—An explosive charge if compressed—although that compression, by the resistance it causes, takes up a certain amount of the engine's energy—yields more additional force in its explosion than is lost in the power necessary for compression. Consequently it is desirable to work the internal combustion engine with a compressed charge if possible. This discovery, which is ascribed by some to Beau de Rochas and by others to Otto, involves each cylinder having an explosion once in involves each cylinder having an explosion once in every two revolutions, or every four strokes; whence the name. On the outward stroke of the piston the explosive charge is sucked in, on the return stroke it is compressed, and when the piston is just at the top

of that stroke the charge is fired. The resulting explosion drives the piston outwards to the end of its plosion drives the piston outwards to the end or us stroke, and as these strokes of the piston are continually arning the eank round, and the crank is fitted with a flywheel, the momentum of this fly wheel keeps the crank and pistons moving while the latter are doing their unprofitable strokes. Before the bottom of the explosion stroke the exhaust valve opens, and the burnt gas escapes, being completely swept out on the upward exhaust stroke. The cycle of operations is then senseted

then repeated.

Forged Metal.—Metal that has been shaped by heating and then put under the hammer or hydraulic

Frame.-The structural part of the car which carries the mechanism and body. It is usually an arrangement of longitudinally and transversely arrangel pressed steel members, but steel tubes are still used, though not so much as in the past. At one time wood, strengthened by steel flitch plates, was employed.

Eriction Clutch,—See Clutch,
Friction Gazz.—A form of change speed transmission depending on the friction between two wheels,
instead of on the teeth of gear wheels; the idea underinstead of on the teeth of gear wheels; the idea under-lying the use of friction gearing being to obtain an infinite variation of speed within certain limits. I also ordinary friction gear a fat cast iron disc of large diameter is driven by the engine, and bearing hard against its face is the rim of a leather-covered wheel, the friction between the cast iron and the leather civcumference transmitting the power. Provision is made to alter the position of the leather-rimmed wheel to any point between the centre of the wheel (at the centre of the disc obviously no motion is transmitted) to the outer edge of the disc face, where the maximum speed is obtainable. From the shaft on which the leather-rimmed wheel is secured the power is transmitted for driving the car.

Front Brakes.- In order to obviate side slip FYOUR BYRAGE.—In order to obviate side alip there is still a tendency at present to brake the front wheels, but, as they have to be free to be swivelled for steering purposes, the problem is not an easy one. The difficulty is, however, overcome by passing the rod that operates the brake shoes through the entry wheel swivels. entire wheel swivels.

Fuel Consumption,—Usually this is regarded as the number of miles that a car will travel for each gallon of fuel consumed, any,nutung in the case of a 15.9 car to about 20 miles a gallon on an average. The system of basing fuel consumption on car mileage is, however, not altogether scientific, a better method being to calculate the number of tous—miles, or tons moved over a given number of niles, by a gallon of

Fulgrum.-The point around which a lever or any part acted upon by a couple (see Couple) tends to

part acted upon by a couple (see Couple) tends to turn. The same as a proot. Gallary Pipe.—In some forced lubrication systems the oil is led along a pipe in the crank case, having small holes in it just opposite the cams or big end bear-ings so that the oil is squirted from these holes on to the parts that require oil. Such a pipe is sometimes

known as a gallery pine.

Garage.—A French word meaning a dock, borrowed

Garage.—A French word meaning a dock, borrowed in this country to apply to a shed for housing motors, and frequently extended to embrace an establishment where motors are housed and repaired.

Gas.—A term sometimes applied to the explosive mixture for the fargine.— In the ordinary gear box mechanism, the various gear striking rods, operating the gears in the gear box by sliding them, lie horizontally and parallel with each other, and are formed with a cross groove near the end along which the selector can pass, if the selector can remain if that particular gear is to be used. The gear is then changed by a fore and aft movement of the lever and the striking rod. It is therefore clear that the change speed lever has to rock in a transverse direction to operate the selector, and them in a fore and aft direction to change the gear and thereby regulate the movements of this lever. A

specially shaped quadrant is fitted with slots into which the lever fits, and in which it is held for the respective changes of speed. Care fitted with this system of change speed mechanism are so that with this system of change speed mechanism are so that with the system of change speed mechanism are so that with the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the syst

ment beyond which the dimensions of the article to be machined must not pass in either direction.

Gauge Glass is a glass tube fitted between brass mountings to enable it to be secured to the boiler of a steam vehicle in such a position as to show the level of the water in the boiler through the glass. The brass mountings are also provided with cocks by which the water and steam pressure can be shut off in case of the glass breaking, and to guard against this latter eventuality a guard of very thick glass or of wire woven glass is also sometimes provided.

Gasar—Strictly accessing the word is anothed to

Gear.—Strictly speaking the word is applied to mechanism for transmitting rotary motion from one to another shaft, and for converting speed into power more or less, or vice verst. Also sometimes used to indicate mechanism generally. See Gear

ised to indicate mechanism generally. (General Box.—The casing in which the gear mechanism for converting the high rotation speed of the engine into lower speed and greater turning power for the propeller shaft is contained. It also holds lubricant for the gear wheels, which are almost invariably of the ordinary toolhed type.

Gear Chango.—Every wheel may be regarded as addisest lever usually working at a disadvantage,

Gear Changa.—Every wheel may be regarded as an endless lever usually working at a disadvantage, the leverage at which the power is applied being represented by the radius of the driving shaft white the leverage at which it is given out is represented by the radius of the driving shaft white the leverage at which it is given out is represented by the radius of the wheel itself. Therefore, if the mean turning force of the driving shaft is, say, 5 lbs. acting at a radius of z inch, the power given off by a wheel of g inches radius, in mesh with the smaller wheel, is z lb. Obviously, therefore, a large diameter wheel on a driving shaft is at a disadvantage, while if driven it enables the power to be applied with a big leverage and therefore offers an advantage. In other words, if a large gear wheel drives a small one the driving force acting on the shaft of the small wheel is less than on the driving shaft of the large one, but the small one makes many more revolutions than the larger in proportion to its size. Irr contra, if we have a small wheel of a thaneter of z inch driving a large wheel of 6 inch diameter of z inch driving a large wheel of 6 inch diameter, we obtain a very much in proportion to its size. Fer contra, it we have a small wheel of a than steer of a inch driving a larger wheel of 6 inch diameter, we obtain a very much slower speed from the driven slaft ([ith]), but it is driven round with six times the power. Thus gear wheels can be used for converting speed into power or vice versal. Now the power of a car falls off disproportionately as the engine revolution speed drops. Consequently in going up hill, as the engine slower, its power weakens. But this is just when the power is wanted; consequently a device for maintaining the engine speed on lulls and under heavy work is desirable. The difficulty is got over by arranging gear wheels in the gear box, so that, on coming to a hill that slows the car down, gear wheels of suitable radius can be slid into engagement with each other. These gear wheels afford fewer revolutions of the propeller shaft relatively to the engine shaft than the higher gears used for driving on the level, thus enabling the engine's revolution-speed to be maintained with fewer revolutions of the rose wheels after the constraint of the constraint of the constraint of the propeller of gear change.

Gear Pump.—A gear pump is one in which the fault of the pumped is forced through to the pump by the action of two rotary sets of vanes, which are practically nothing more or less than gear wheels, the

teeth of which, meshing with each other, act as the vanes of the pump, and force the oil through.

Gear Wheel.—A toothed wheel, whether of the

parallel spur, the skew, the bevol, or worm variety.

Generator.—Another name applied to boilers, especially to those of the flash or semi-flash type. It is also applied to the vessel in which acetylene gas is generated from calcium carbide by the application of ater to the latter.

Gilled Radiator .- A radiator made up of tubes which depend for their cooling upon a large number of very thin metal fins placed around the tube in such a way as to conduct the heat rapidly away to the air from the tube and the hot water contained therein.

from the tube and the hot water contained therein. Gland.—A gland is, practically speaking, a httle box formed around a rotating, or sliding rod, in such a way as to permit it to continue to rotate or slide, but at the same time to abord around the rod a perfectly gas, water, or oil tight joint, as the case may be. Clands are used around piston rods on the cylinders of steam engines to allow the piston rod to work in and out without any escape of steam. They are also used on the rotating shafts of water and oil circulating pumps to permit the shaft to rotate without the water escaping to promit the shaft to rotate without the water escaping.

to permit the shaft to rotate without the water escaping from the pump. They are usually formed with a circular cavity containing the fluid-tight packing. This can be forced as tightly as required against the rod all round by pressing it up (by screwing up the outer end of the gland so that it is forced along the rod).

GOVERNOR.—A mechanical means of preventing the rotation speed of an engine from exceeding a certain seet maximum. This is usually effected by weights, which are so arranged that, when rotated above a certain speed by the engine, they fly so far outward by centrifugal force as to slide a spring-controlled sleeve sufficiently far along the shaft to which they are secured, as to slow the engine by shutting or tending to shut the throttle.

secured, as to slow the engine by shatting or tenting to shut the throttle.

Graphita is a form of carbon, a good deal used as a lubricant for surfaces exposed to great heat. Asbestos washers can also with advantage by painted over

bestos washers can also with advantage be painted over with graphite to prevent them sticking to their Joints.

Gravity Faad.—When the supply of perrol, or oil, depends on the weight of these fluids flowing from a tank placed at a higher level than the point at which that to be feel, the liquid is said to be "gravity feel."

Groase Cup.—A more or less cup-shaped libractor to hold and supply grease to parts of the mechanism. Grease cups are provided with covers which screw down and so force the grease through the opening at the bottom of the cup to that part of the mechanism requirer it.

and at the notion of the cup to that part of the inections requiring it.

Gefinding in Walves.—When an engine has been running a long time the seatings of the valves tend to become worn and pitted, and it is the inecessary to "grind the valves in" on their seatings. This is done by putting a mixture of the finest emery or crocus powder, with a little oil, orathe seating of the valve, powder, with a little oil, on which seating of the valve, and then turning the valve round and round so that the emery grmds out all imperfections on the valve and seating surfaces. If the valve oily rotated oil its seating, the particles of emery would tend more or less to take the same circular path on each turn of the valve, and the grinding would, through a microscope, resemble a series of concentric grooves on the valve and its seating. To avoid this the valve should be lifted off the seating to agent fact the valve should be lifted off

its seating at every few turns to obtain a different dis-position of the enterly particles.

Grub Screw.—A small screw without any head but merely with a slot for a screwdriver cut at its end. Grub screws are used where it is necessary to have the screw flush with the surface without countersinking

screw flush with the surface without countersinking for a screw head.

Gudgeon or Gudgeon Pin.—The pin in the piscon, on which the connecting rod at its small end is free to swing. It is generally secured immovably in the piston by taper locking bolts, or by having the gudgeon pin ends and the piston grooved to accommodate a locking ring, which passes around the piston and by its fit in the groove and the gudgeon pin ends prevents the latter from rotating. Sometimes the gudgeon swings with the connecting rod, and rotates in bearing surfaces in the walls of the piston.

Guide.—In a steam engine guides are usually bars of

steel to which the crosshead is secured as a sliding fit, and along which it slides. In internal combustion engines the guides are usually practically tubes in which the valve spindles and tappet rods slide.

Gun-Metal Or Bronse is an alloy used especially for bearings of shafts or bearing surfaces, such as guides, etc. It is composed essentially of copper and tin, sometimes with a little zinc, a typical unxture being on per cent. copper, of per cent. tin. and è per cent zinc. Ousset Plate.—A flat plate, usually triangular, riveted at the corners of motor frames to strengthen them and to guard the right-angled corners of the frame from distortio

Hackney Carriage.—A Hackney Carriage, under British law, is a vehicle employed solely for the transport of passengers for its owner's business and profit, provided that the velucle is not let for a term exceeding three months. There may be said to be two varieties of Hackney motor vehicle, the one a cab the other corresponding to the old horse-drawn fly.

A cab is Hackney carriage but a Hackney carriage is not necessarily a cab.

Half Time Bhat.—Usually the camshaft or distribution shaft. A shaft rotating once to every two revolutions of the crankshaft.

Half Speed Shaft.—A shaft geared to rotate at half the number of revolutions of the crankshaft. A

half the number of revolutions of the crankshaft. A term usually applied to the camshaft.

Hand Brake.—A brake worked by a hand lever, which usually operates on drums on the back wheels.

Head Lamp.—See Lamps.

Helical Gearing.—See Skew Gear.

Hemispharical Bearing.—To allow for the unavoidable "whip" in the frame of a car, some bear.

ings, as, for example, those of the countershaft, are ings, as, for example, those of the countersnair, are sometimes shaped outwardly to the curve of a circle, their housing being correspondingly shaped to accommodate them, so that the bearings may be allowed a certain amount of rocking motion, or "play," when the frame deflects.

High Pressure Cylinder.-See Compound

Engine. High Pressure Engine. A term sometimes applied to the ordinary non-compound steam engine.

High Tension Circuit.—When a circuit of low

voltage on the primary circuit has been transformed through a coil or transformer into a high voltage current on the secondary circuit, it is called a high tension current, and the circuit along which it passes is called the "high tension circuit."

called the "high tension circuit."

Hit-and-Hiss System.—In some old cars the governor, instead of regulating the throttle, acts on a wedge-shaped sort of kinfe blade, which, at the craical apped, was forced forward by the governor to move the appet rod of the inlet valve so that it did not come into contact with the valve spindle, and consequently the valve was not opened. This, of course, resulted in a fall in the speed.

Honavornh Radiator:—Strictly meaking, the

a fall in the speed.

Honaycomb Radiator:—Strictly speaking, the honeycomb radiator is made up of hexagonal tubes placed so closely together as only to leave room for very thin films of water flowing between their outer walls, while the air rustless through the tibes, cooling them from the listide. The term, however, is now applied to any type of radiator in which tubes are arranged horizontally so that the air passes through their interior and the water over their exterior surfaces. Hooke (or Hooke's) Joints.—The same is Universal Joints.

Hooke or Horn Plats.—Horn plates are

Universal Joint.

Horn Block, or Horn Plate.—Horn plates are brackets which act as guides in which the back axle may move up and down on its springs, the form blocks being made in pairs for this purpose, and the axle moving up and down between the two. Obviously, horn plates prevent fore and aft movement of the axle, and so obviate the use of radius rods.

Horse Power.—Power is the unit of measuring capacity of an engine for doing work, since it is necessary to institute comparisons in this direction between various engines. For this purpose the horse power, as founded by James Watt, is still used. In establishing this unit Watt calculated the work that could be performed continuously by the largest dray horses, and to be on the safe side, added 50 per cent. to bis estimate.

Accordingly, a horse power is the capacity for doing 33,000 foot ibs. of work in a minute. It does not matter whether 1 bit a raised 3,000 feet, or 33,000 lbs. are raised 7, foot in a (ninute; in either case a horse power is expended. Therefore, the total number of foot ibs. of work that an engine can perform in a minute divided by 33,000 is its total horse power.

Housing.—A cavity for the accommodation of a ball, or roller, bearing in the stationary structural part surrounding the shaft to which the bearing is applied.

Hub.—The centre of a wheel; more especially applied to wire wheel;

Hub.—The centre of a wheel; more especially applied to wire wheels.

Hunting.—With some governors, attengine, when free from its load, tends to race round and attains a high speed before ever the governor can come into action. When, however, the governor does act, its action is so pronounced as to slow the engine below the spec, if or which the governor is set, and it is only aire a series of speed oscillations, so to speak, that the engine is set to work at its governed speed. This belated and exaggerated action of the governor is known as "hunting."

Hydrocarbon.—A term used in connection with fuels, which are chemical compounds of carbon and hydrocen.

fuels, which are chemical compounds of carbon and hydrogen.

Hydromatar.—The same as Bensimetar.

Hydromatar.—The same as Bensimetar.

Igalition.—Ignition is the firing of the explosive charge in the cylinder, and for practical purposes it is carried out by one or two broad systems. Ignition is either by bettery or magneto. In the battery system either accumulators or primary batteries can be used, four volts being the usual-pressure at which the primary circuit is worked. In either case this circuit is transformed up by means of a coll, as the igniting spark between the sparking plug points has to occur at a voltageo 4000 or so. (See Coll.) Current is made to flow, at the required moment, by the contact maker. (See Comtact Maker.) The circuit has to be suddenly broken as well as made, to get a good spark at the plug, and so contact makers are made on either one of two principles. Either they may be so designed one of two principles. Either they may be so designed with a spring to make and break contact very sudder with a spring to make and break contact very suddenly, or they may depend for the sudden make or break on a trembler on the coil. (See Trambler.) In magneto ignition too we have two broad varieties—the low and high tension. In the low tension an armature with only low tension winding is provided, and consequently the circuit has to be broken. As the spark is produced at the point where it is broken, this break has to occur inside the cylinder among the explosivegases. This is effected by a trip tapper mechanism worked from the cam shaft in such a way as to cause the break to occur at the by a trip tappet mechanism worked from the cam shaft in such a way as to cause the break to occur at the correct moment. In the high tension magneto system the armature is also provided with secondary or high tension windings which enable the magneto directly to give off high tension current that will jump between the poles of an ordinary shaped sparking plug, the timing of the passing of the spark being regulated by a contact breaker fitted to the armature thaff of the magneto, and much on the lines of that used with accumulator ignition.

Incrustation is formed in boilers, radiators and water pines, owns to the salts that are denosited by

Incrustation is formed in boilers, radiators and water pipes, owing to the salts that are deposited by any but absolutely pure waters. They are chiefly sulphates and carbonates of lime. A useful remedy to lessen and get rid of such incrustation is ordinary soda. Indicated Horse-Power.—Horse-power that is actually being expended on the piston by the gases in the cylinder, as distinct from brake horse-power, which.

see. Measurement of this power can be obtained by an indicator, an instrument which takes diagrammatic readings of the power so that the pressure at any point during the stroke of the piston can be ascertained, and,

during the stroke of the piston can be ascertained, and, consequently, the whole of the work being performed in the cylinder can be calculated. Induced Current.—A current obtained in a circuit by induction from another circuit in the same way as the primary ignition circuit through the coil induces a high tension circuit in the secondary winding. Induction Coil.—See Coil.

Induction Pips.—The pipe by which the gases are led from the carburette to the cylinder.

Induction Yalva.—The valve by which the flow of gases from the carburetter to the cylinder is timed

of gases from the carburetter to the cylinder is timed

and regulated. It is usually in modern engines operated positively from the cam shaft, but sometimes is still merely a spring loaded valve opened by the suction of the engine.

suction of the engine.

In section—An instrument in which, by sutilising the momentum of water when made to move extremely rapidly, the boiler is supplied with water forced into it despite the boiler pressure opposing the supply. To do this steam is passed at high velocity through a series of jets around which the water lies. The paradox of the injector is generally explained by the fact that, when the steam picks up the water and carries it through the hijector, it induces a very high speed in that water. Consequently, the water has a lot of momentum which overcomes the pressure of the boiler opposed to its entry.

opposed to its entry.

Inlet Pipe.—See Induction Pipe.

Inlet Yalve.—See Induction Yalve.

Inner Tube.—The rubber air tube of a pneumatic tyre

Inspection Door.—A light metal lid fitting over a hole in a cover, such as a crank case, and easily re-

a hole in a cover, such as a crank case, and easily removable so as to render the mechanism in the interior of the casing available for inspection.

Inspection Lamp.—See Lamps.

Insulation.—Is material such as subject, etc., which will not conduct electricity, and so be wound round electric conductors in order to protect them. Insulation may mean the act of protecting such circuits by insulating material.

Insulating Taps.—A tape made of indiarubber and gutta-percha so thabit insulates any electric connections round which it is wound. It is so sticky that the end can be cut off and stuck down to prevent it coming unwound.

coming unwound.

coming unwound.

Intensity Coll.—See Coll.

Intensity Coll.—See Coll.

Intensity Coll.—See Coll.

Intersal Combustion Engine.—An engine in widch the fuel is consumed directly in the cylinder, and the expansion caused by the burning of that fuel is made to act directly on the piston. The internal combustion engine in motor work may be regarded as the alternative to the steam engine, in which the fuel is used more indirectly (see Steam Engine). Internal combustion engines act on one of two principles—either bustion engines act on one of two principles—either four cycle or two cycle—for which see under these headings.

Iron.—A metal used more than any other in care construction. Known chemically under the symbol of Fe, there are practically two varieties of iron, widely different from each other, the one cast, the other wrought iron, for which see under these respective headings.

headings.

Irreversible Steering.—Steering so designed that while the driver, by turning the steering wheel, can turn or swivel the front wheels, the front wheels cannot turn the steering wheel; consequently the ear with irreversible steering tends to run on in the direction for which the steering wheel is set. Irreversible steering is gually obtained by a worm on the steering column in diesh with a touthed sector, on the rocking column in diesh with a touthed sector, on the rocking leases which wayes the rod connective to the lever arms column in mesh with a toxined vector, on the rocking lever which moves the rod connecting to the lever arms by which the front wheels are swivelled. The worm is cut at such an angle that, while it can move the sector, the sector cannot rotate the worm. Hence the name.

Isothermal Expansion.—When a gas at a given pressure in a cylinder moves the pixton of that

cylinder outwards so as to allow the volume of the gas to expand, the pressure of the gas would fall proportionately to the increase of its volume, neglecting the heat lost in work, the consequent fall in temperature, and the losses of condensation, etc. This law

ture, and the losses of condensation, etc. This law of the pressure of a gas varying in inverse proportion to the volume it has to fill is known as Bovie's law. Of course expansion on these lines is only possible in theory; it is known as Isothermal Expansion.

Jack.—An implement for lifting heavy weights, especially cars. Car Jacks almost invariably depend for their action on the mechanical advantage obtained from a lewer rotating a screw, thus giving a double mechanical advantage. The casing of the jack stands firmly on the ground, and contains a rotatable sleeve which is threaded for the accommodation of the lifting screw. When this sleeve is turned in one direction the lifting screw is worked upwards out of the sleeve, and thus is

lifting action obtained. Sometimes for convenience a ratchet action is employed with the lever for turning the sleeve.

Jacket.—The word generally applies to water jackets surrounding the cylinders of internal combustion engines, but in some steam engines the cylinders are surrounded with steam jackets to maintain the tem-perature in the cylinder, and thus avoid the bower losses that would otherwise be caused by the conden-sation due to cylinder surfaces not sufficiently warm.

Jet.—The spray nozzle, through which the fuel in an internal combustion engine is delivered from the carburetter to the engine. The word may also be applied to liquid fuel burners employed in steam engines. Jookey Putley.—A pulley rotating on a centre, the position of which can be adjusted to requirements

the position of which can be adjusted to requirements by fixing it on one end of a lever arm. A jockey pulley is generally used to take up stack in a belt. Joint.—Joints are of many sorts, and for many purposes. There is the expansion joint, to permit pipes to expand under heat without causing leaking to the joints: such joints usually obtain their effect by allowing a certain amount of spring action on the pipe. Then there is the flanged joint used for either pipes or shafts, in which the flanges are connected by boils or studs and nuts. There is the ordinary face joint where the surfaces of metal are screwed together and frethe surfaces of metal are screwed together and fre-quently to render them gas tight are treated with red-lead, or have some material like sheet asbestos inter-posed between them. The union joint applies only to smaller pipes and is formed of the well-known union nut which presses a flange on the pipe against the connection by screwing them on to that connection. A universal joint exclusively applies to rotating shafts, which are required to transmit movement more or less flexibly, while a ball and socket iont is usually found which are required to trainant inovement move of resaffectibly, while a ball and socket joint is usually found on such parts as steering connections.

Journal.—The part of a shaft running in a

Key.—A small piece of metal of varying lengths— usually rectangular in section—which is employed to connect moving members such as shafts, etc., to parts such as wheels which have to be rigidly section thereconnect moving members such as shafts, etc., to parts such as wheels which have to be ngidly seculed thereto. A key ordinarily is fitted in a groove cut on the shaft and into a corresponding groove cut in the hoss of the wheel, so that the shaft cannot rotate without the wheel following suit, unless indeed the key were to be sheared in two. Keys usually taper very faintly along their length, so that when driven up they secure the wheel tightly to the shaft.

Kay-Seat. The same as Kay-Way.

Kay-Way.—The groove made for the accommodation of the key.

Knock or Knocking is a peculiar and unmistakable noise in an engine. Since it is usually caused by the mechanism between the crank and piston, it generally sounds as if it were coming from the cylinders. It may be due to worn bearings, to insufficient ore unsuitable mixture in the cylinder, to improper ignition timing, or to overheating in the cylinder. In any case steps should be taken to stop it as soon as possible.

Knuckle Joint is the joint usually seen on engine control rock, and sometimes an steering rods, radius rods, etc. In a knuckle joint is chuetimes called a double eye joint at one part the knuckle is slotted out so as practically to constitute the fork, between the cheeks of which the other connection is accommodated. A hole nasses through this connection and with sides.

cheeks of which the other connection is accommodated. hole passes through this connection and both sides of the fork, and through this hole a bolt, which forms the connection, is passed, the bolt sometimes being locked with a nut on its end, but sometimes with a split

pin or other device.

Kaurling.—The mechanical roughening of a metal surface, which gives an appearance somewhat similar to the engine turning seen on a watch. Fraguently found on the edges of the heads of fine adjustment

screws, etc.

Lamps.—The most that can be done is to review the different methods of car lighting at present available. A car in Great Britain has to carry several sort lamps. There is the tail lamp, which must filuminate the back number and show a red light behind. In the front, carried on forked brackets, are the head lamps, usually powerful lights. One of these may be carried.

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on either side of the car, or a large one in the centre, and in addition to this, side lights are also sometimes carded. These are less powerful lamps, generally placed on either side of the front seat of the car. At placed on either side of the from seat of the car. At present there is a tendency to make the head light in the teering so as always to show the light in the direction in which the car is travelling, and authorities in the motoring world are also endeavouring to arrange that lamps shall be placed as far as possible at the outermost points on the sides so as to indicate to others the width limits of the car. As regards the various forms of illuminating, the most sophisticated undoubtedly is the electric light, generally obtained from a small dynamo worked off the engine in conjunction with accumulators, that can be brought into action when the engine is not at work. There are many forms, however, of electric lighting systems, many of them of the highest ingenuity, but acetylene is another medium, giving, if anything, a more powerinany of them of the ingress inglatiny, our acceptance is another incidium, giving, if anything, a more powerful light, and with a completely carried out acetylene mistalment only one generator is necessary for all the lamps on a car. Oil lamps and parafin lighting are hardly sufficient to depend on, but are frequently used hardly sufficient to depend on, our no inspection lamp for the side or tail lumps, or both. An inspection lamp

is another type that every car ought to possess. It should be electric to avoid risk of petrol explosion. Landaules.—A car in which the upper lack part of the body, which consists of a folded hood, can be opened or closed at will, while the front part remains

permanently standing.

permanently standing.

Lap.—Lap is a term applied to the side valves of steam engines, and means the amount by which the end of the valve overlaps the outer edge of the corresponding steam port when it is in the middle of its stroke. It must overlap the outside edge of the steam port, and may overlap the made edge. Sometimes, however, the valve in its middle position not only fails to overlap the misde edge, but leaves an opening along this edge. This is known as negative inside lap. Engines with negative inside lap would be very free running but wasteful. It is the ordinary outside lap that renders possible the expansive working of the steam.

running but wasteful. It is the ordinary outside lap that renders possible the expansive working of the steam. LatCral Thrust is sideway stress.

Lay Shaft.—A lay shaft is in reality an intermediate shaft for transmitting motion through gearing. It is usually applied either to the shaft transmitting movement from the engine crank shaft to the cam shaft when the latter hes along the tops of the cylinders, or it may be the intermediate shaft in the cyar box which transmits the motion from the promary gear box which transmits the motion from the primary

gear box which transmits the monators with the final drive from the gear box.

Lead is a term used to denote the amount of advance in opening of a valve ahead of the uston the sud of its stroke. The word

salso applied to any electrical wire.

Lever.—A long handle turning on a pivot or fulcrum and used for many purposes, especially for controlling engine and change speed year and brakes on a car. Levers have sometimes to be designed to increase the power applied through them, in which case crease the power applied through them, in which case the length of the actuating arm is longer than the one taking the force from the fulcrum to its point of application. These forces vary directly with the length of the arm. Take a lever with the force applied at 2 ft. from the centre of fulcrum and giving off the force again at a point if a way from the fulcrum, the force given off will be just twice that applied.

Lifter.—See Exhaust Yalve Lifter.

Limousine.—A permanently enclosed car.

Three—

Quarter Landaulet.
Liner.—A liner is almost invariably condrical and is fitted into cylindrical holes, either to diminish the size of the original hole, or when applied to cylinders and wearing parts, to afford renewed wearing surfaces.

Link.—In car work is a form of connection used for

Conting two members together. It may be used to couple up two members together. It may be used to couple up two brake connections, or two levers. A good example of the link is to be seen in the spring hanger swing links, connecting the ends of the link with the spring hangers of the frame. It is also used for the swinging quadrant in steam engine valve gear. Linking Up.—See Walve Motion.

Link Motion.—See Walve Motion.

Liquid Fuel.—Apart from the liquid fuel in internal combustion engines, fuel is generally used in a liquid form for heating the boilers on steam cars, for which purpose it is snore compact than the ordinary coal or coke. It is usually applied either through an injector or spray, or else through a heated coil, whence it issues in the form of vapour, which is ignited at the burner orifice.

Live Axla.—See Axla. Live Steam.—Steam at pressure, direct from the

Load may apply either to the actual load carried by the car, or to the resistance put one to the engine. against which it has to work.

Lock.—See Steering Lock.

Locking Nut.—Locking devices are used to prevent bolts and nuts from slacking back. Low Pressure Cylinder.—See Compound Engine.

Lubrication.-The medium used to reduce friction between two surfaces working relatively to each other. For motor work lubricants nearly always take the form of grease or oil, which works in as a film between the surfaces. Lubrication should be chosen to enable this film to be retained under the load on the

to enable this film to be retained under the load on the particular bearings, etc., for which it is used.

Lathrication System—The proper labrication of car mechanism, especially of the engine and gears, is all important. The gears in general are fairly simply lubricated by filling the gear box up to the required amount from time to time. The engine, however, demands more than this, an, may be lubricated on the splash system, in which oil is simply supplied to the crank case and all bearings and surfaces depend on the lubricant splashed up by the raoulty rotating cranks as they churn through the oil. In another system oil is carried in a tank above the engine, generally on the dash board, and its flow to the engine is regulated by the amount of pressure in the tank, such pressure being usually obtained either from the tank are pump driven by the engine. exhaust or from a small air pump driven by the engine. The most generally adopted system in modern cars is the force feed in which oil is forced under pressure by the force freed in which off is forced under pressure by a small engine-driven pump (either a gear pump, a rotary or reciprocating pump) to all the bearings and moving parts of the engine that require lubrication. For this purpose very often the crank shaft is made hollow and utilised to conduct the oil to all the crank bearings and up the connecting rods to the gudgeon pins. Sometimes oil is forced, through a gallery tube with little holes in it just opposite the bearings requiring lubrication.

ing labrication.

Lubricator.—A device for feeding lubricant to mechanisms. Some are designed so that the amount of oil supplied can be seen passing through sight-feed

Magnetic Clutch.—A clutch in which the driving and driven parts are connected together by magnetism.

and driven parts are connected together by magnetism. They are practically never used except in special designs of electric and petrol electric vehicles.

**Magnetic Field.**—The space through which the magnetic lines of force, between the poles of a magnet, pass. It might be better described as the field of magnetic nineence.

**Engnetic Lines of Force.**—The forces of the poles 
attraction between the poles of two magnets are, for convenience, conveniencally supposed to follow or to be represented by certain definite lines known as "lines of force," and when a bar of iron, or iron wire cuts these lines of force it causes an electric current

cuts these lines of force it causes an electric current to be set up in the iron.

Magneto. — A compact and specialised form of dynamo fitted on car engines, and so designed that, when driven by the engine, it shall supply electricity for the ignition of the charges in the cylinders, and epsure that the sparking for this purpose is passed between the points of the sparking plug in the cylinder at the right moment.

at the right moment,

Main Bearing.—A bearing of the crank shaft,

Make and Break.—The mechanism to regulate
the flow of current in the primary circuit in ignition
systems that are not fitted with trembler coils,

Manometer.—A pressure gauge,

Mechanical Efficiency.—See Efficiency.

Mechanically Operated Valve.—An inlet valve positively opened and shut by the mechanism of the engine, as opposed to the automatic inlet valve opened merely by the engine suction.

Metal to Metal Clutch. A clutch in which the

connecting surfaces are both of bare metal.

Micrometer.—An instrument for measuring extremely accurately to very small fractions of an inch.

Mild Steel.—See Steel.

Kileometer. - An instrument for measuring

distance by mileage.

Hilled Nut.—A nut the edges of which are formed with segrations similar in appearance to those found on the edge of a shilling. This is done to afford

found on the edge of a shilling. This is done to allord a better grip.

Mile-Fire.—Sometimes owing to the charge of air and vapour momentarily not being in explosive proportions, or because of defective ignition, a charge may enter the cylinder and leave it without being exploded. This is known as a mis-fire. When anything causes mis-firing, these mus-fires are usually inter-

Mixing Chamber.—That part of the carburetter in which the fuel and air for the engine are brought together.

fixture.—The mixture is a combination of air and vapourised or gasefied fuel, to be exploded in the cylinder.

M.O.Y.—Short for "mechanically operated valve."

Mud Guard.—The protective coverings placed over the wheels of a car to prevent mud being splashed over the vehicle.

over the vencie.

Muffler.—Another world for the silencer.

Multiple Disc Clutch or Multiple Plate
Clutch is a form of clutch in which the friction for transmission of power is obtained through frictional contact between two or more plates or discs

Nail Catcher.-A device, usually consisting of a short length of chain like a curb chain, resting lightly

across a pneumatic tyre, from which it extracts nails and such like things as the wheel revolves. Natural Circulation.—See Cooling Systam. Naphtha.—A hydrocarbon liquid sometimes used as a fuel for internal combustion engines. Naphtha as a fuel for internal combustion engines. Naphtha can be distilled from coal, wood, or crude oil. Its chief drawbacks lie in a tendency to mess up the cylinders, and in the extremely unpleasant smell of the exhaust. It is more generally suited for comparatively slow running engines.

Naya.—The hub of a wooden wheel.

Needla Yalya.—The spindle in the float chamber of a carburetter usually ends in a point, which is forced by the action of the float on to a corresponding control where the control was the suited with the section of the float on to a corresponding the sections of the float on to a corresponding the sections of the float on to a corresponding the sections of the float on to a corresponding the sections of the float on the section and the section of the float on the section and the section of the float on the section and the section of the float on the section and the section of the float on the section and the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the

seating as soon as the petrol reaches a certain level in the float chamber. This is the needle valve. The term can be applied to any very fine pointed small

valve.

Regative Pole.—See Accumulator.

Nickel (Ni.).—Chemically speaking, an elemental metal, at present much used for alloying with steel, to which in certain proportions it gives great strength and toughness, the most usual proportions being up to three or five per cent. nickel. For special purposes, as, for instance, valves, however, the proportion on inckel may go as high as as per cent. One of the great properties of nickel steel is its capacity to resist what is known to engineers as "fatigue," and what is sometimes erroneously called the tendency for the metal to "crystallise." to "crystallise."

to "crystalise."

Mippie... The same as jet. (See Carburetter.)

Non-Return Valve... The game as Check

Valve... See Valve.

Non-Ekid... A device applied to tyres to aprevent
side-slip of vehicle. These, at present, usually consist
of bands studded with hardened steel studs which grip. or bands studeed with narieneed steet studs which grip the surface of the road, but sometimes mere chains loosely passed round and round the tyre and wheel rim, are used. Many attempts, too, have been made to produce mechanical non-skids as part and parcel of the car mechanism, but hitherto they have not met

with much success.

Mormal to.—At right-angles to.

Notehing-up.—The same as linking-up.

also Yalve Motion.

Nozzle.—Usually applied to the carburetter jet.
Nut.—The ordinary nut is too well known to need
description, but it is found in many varieties besides in many varieties besides There are various forms of description, but it is found in many varieties or means the usual hexagonal form. There are various forms of hexagonal locking nuts, as for instance, castle locking nuts (see under separate heading), and helicoid nuts (the latter made from coiled steel, so that the coils spring slightly and so bind on the thread). Then there are milled and knurled nuts, userely circular, and since they are to be turned only by hand, are made with their circumferential edge rough, so as to afford a grip. The wing nut is another form of hand nut, with wings formed on it to give more power for screwing up; this is sometimes known as the butterfly nut; while the union nut is employed for joining up pipes to their

Odometer .-- An instrument for measuring the distance run.

Offset.—Ordinarily the centre line of a cylinder, if produced, would fall dead on to a line drawn through the centre of the crank shaft, but when cylinders are placed so that their centre line is parallel but somewhat to the side of this line, they are said to be offset or desaxt. With this arrangement there is no dead centre.

With this arrangement there is no dead centre.

Oll Gauge.—A device by which the level of oil in a tank can be shown. It may be in the form of a glass tube on the same principle as a water gauge of a boiler, or it may be arranged to show the level by means of a needle on a dual.

Oll Pump.—See Lubrication System.

Oldham Coupling.—A form of flexible shaft coupling in which the end of each shaft to be connected is formed with a flaure, each having a propose, like that is formed with a flange, each having a groove, like that is formed with a flange, each having a groove, like that of a key-way, right across its face. Interposed between these two flanges is a floating disc with projecting tongues at each side to fit into the grooves on the flange faces, but these projecting tongues are arranged so that the one on the one side les at right-angles to that on the other side. Thus, while allowing the floating coupling to move in one plane relatively to the driving shaft, it allows the driving shaft to move in another plane at right-angles to that allowed to the coupling itself. The driven shaft can thus move in two dimensions, similarly to a universally jointed shaft. jointed shaft.

jointed shaft.

Otto Cyole.—See Four Cyole Engine.

Overheating.—When the supply of lubrication is insufficient to counteract the friction in a hearing, or between quickly moving or heavily loaded surfaces, the friction generates heat, and if the action continues, this overheating may cause serious damage by the metal becoming abraded and particles consequently working in between the moving parts and cutting them. Lack of lubrication also causes overheating of pistons in engines, but engines may also overheating or owing to causes arising from the combistion of the fuel, as for instance improper mixture, or defective water circulation.

Packing.—The word packing may refer to thin strips of metal placed underneath a bearing or any part to raise it to the required height, or it may refer to the relatively soft material inserted between the two to the restrictive of internal internal internal the tween the two metal surfaces of a face joint, or lie word may be applied to the material put into thanks to render them steam or fluid tight. For face joints, red lead, or rubber and canvas insertion, are frequently employed and sometimes corrusated plates of thin soft sheet metal, while for glands, either soft metallic packing emergency in the rod and spindle, or hemp saturated with

emercing the rod and spindle, or nemp saturated with tallow or grease, may be used

Packing Ring.—A piston ring is a packing ring, but the principle may be applied equally well to cylindrical sliding valves.

Panne. "En Panne."-A term borrowed from the French, meaning a break down of the car. In

the French, meaning a Dreak down on the Car.

English we say "hung up."

Paradin is sometimes used as a fuel for steam
engine driven cars and sometimes for internal combustion engines, in which latter case the fuel should be
split up into as small particles as possible and vapourised or heated.

Parallel.—When all the positive poles of the cells in a battery are connected up to one side of the circuit, and all the negative poles to the other, the battery is

said to be connected up "in parallel," as opposed to being connected "in series." (See Sarles.)

Rawl.—A pawl may be likened to a door which will permit rotary motion to pass only in one direction. It is used in connection with a ratchet. The pawl, which is merely a catch, is hinged on the driving member that is rotated in one direction, and it fails, or is pressed by appting, down on to the faces of the teach of the circular ratchet, which transmit the movement to the driven member. If the pawl tends to rotate faster driven member. If the pawl tends to rotate faster than the ratchet (in the same direction) it catches against the saw-shaped ratchet teeth, and driving pawl and driven ratchet revolve as one. If, however, the pawl is rotating more slowly than the ratchet, or is pawl is rotating more slowly than the ratchet, or is moving in the opposite direction, the ratchet, owing to the saw-like slupe of its teeth, overrum the pawl, which merely drags along over the tooth faces without connecting driving and driven members. One of the best examples of a ratchet and pawl mechanism is seen in the tree wheel of a bicycle.

seen in the tree wheel of a blcycle.

Padal—In car work a pedal is that part of a control mechanism on which the foot is placed to operate it, but it is now usually applied to the entire lever when operated by foot. They are used for operating the brakes, clutches, accelerators, and on sonise cars for gear change economy. Some motor cycles are fitted with pedals similar to those on ordinary cycles, to be used in starting the machine by pedalling it along.

Pat Cook.—A small tap used to indicate the level of water in a boile. The smitt man and the control of the cook.

of water in a boiler.

Petrol.—The spirit most generally used for motor
work. It is a comparatively light hydrocarlion distilate of mineral oil, ranging in weight from about 68 to
76 lbs. to the gallon ('66 to '760 sp. g.). Needless to
say it is highly inflammable and therefore stringent byelaws regulate the storage of it in any quantity. In
America it is called gasolene, in France, sizerice. As it
is very volatile at ordnary temperatures, it mires easily
with air, so as to form an explosive mixture for internal
combustion engines.

with air, so as to term as experience.

This combustion engines.

Phacton.—An ordinary open touring car.

Phinon.—A word applied to the smaller of any two
geat wheels that are in mesh together.

Pina.—Ins are of many sorts, and apart from cases
in which the word has been applied to important parts
of the mechanism,—as for instance a gudgeon and crank
pin,—it generally implies some sort of fastening or
means of securing a fastening, the most general examples
being cotter pins which are tapered pins used for locking nuts, or, similar connections held in position with a
nut. A taper pin is very similar to a cotter pin, but
depends upon its taper fitting to remain in position,
since it has no securing medium. Then there are split
nons which are passed through holes, and while the head since it has no securing medium. Then there are split pins which are passed through holes, and while the head

nns which are passed through holes, and while the head of the pin prevents it moving in one direction the other end that is split is splayed apart to prevent it from falling out of the hole in the other direction.

Pipe Union.—See Joints and Nuts.

Piston.—A piston is really a plunger fitting pressure tightly, but a sliding fit, in the cylinder to transmit the working pressure of the gas in the cylinder to connecting rod. As its motion is purely reciprocating, the connecting rod translates the reciprogeting movement of its one end into the rotatory movement of the crank at its other end. In double acting engines, such as steam engines the piston is a metal disc (with its circumference grooved for the accommodation of the packing rings), formed at its centre with a boss in which the piston rod end is secured, but in internal comblisthe piston rod end is secured, but in internal comblistion and other single acting engines no piston rod is necessary, and consequently the piston is made somewhat in the shape of an inverted bucket, the top transmitting the pressure, while the walls accommodate gas tight packing rings, and the inside, undespeath the top, accommodates the gudgeon pin, enabling the connecding rod to be secured directly to the piston. Piston Ring.—A split metal ring fitting in grooves in the piston, and so proportioned as to spring upwards against the walls of the cylinder or barrel so as to ensure that the piston or plunger shall be a gas tight but sliding fit.

Pisson Rod.—The rod connecting the piston with the piston rod end is secured, but in internal combûs-

Piston Rod.—The rod connecting the piston with the cross-head, and so indirectly with the connecting sod. It is practically only used in double acting engines.

Piston: Speed.—The speed at which the piston travels along the walls of the cylinder is calculated in feet per minute. It is found by multiplying the leading of the stroke by twice the number of revolutions per minute of the stroke by twice, because the piston makes two stroke—one up and one down—to each revolution of the engine). Formerly 1000 ft. per minute was regarded as the maximum permissible piston speed, but now the tendency is towards far higher speeds in internal combustion engines, in fact over 4,000 feet per minute has been known, for it appears that the limiting factor of such speeds is the number of reversals of stress—first in one, then in the opposite direction—that can take place in the time, rather than the mere rubbing speed between piston and wall.

Piston Valve—See Valve.

Pitch.—When several holes are drilled at regular intervals in, say, a plate, the distance from the centre

intervals in, say, a plate, the distance from the centre of one to the centre of the next is the pitch. The same word also applies to the distance made by the thread of a screw in a single turn. In gear wheels the pitch may be calculated on the circular or diameteral bases, for which see Gircular Pitch and Diameteral Pitch.

Pitch Circle. When the comment of the pitch and Diameteral Pitch.

Pitch Circle.—When two gear wheels are in mesh, there is a plane passing exactly midway between the roots of the teeth of one wheel and the roots of those on the other, and if circles were drawn from the centre on the other, and it circles were drawn room the constraint of both wheels so as to touch this plane, the circles would themselves just touch each other. These circles show the mean diameter for gear calculating purposes, Pitting is the uneven wearing away of surfaces, nearly always due to corrosion. It is most noticeable

on the seating of valves, for here a very little makes a difference, and here it shows itself in tiny hollows and depressions on the surfaces of the seatings. It is due to corrosion from the gases passing over the seating.

Piwot.—The centre on which a lever rotates or oscillates. The same as fulcrum.

oscillates. The same as fulcrum.

Plain Bearings—Bearings offering sliding contact, as opposed to bearings that depend on roller contact, like ball or roller bearings.

Planetary Gear.—See Epicyclic Gear.

Plate.—This word has a fairly wide application. It may be applied to the lead plates or grids in accumulators, to angle plates used in the construction of car frames, to baffle plates, to flitch plates on frames, to friction plates in clutches, or to number or identification of lates, or again in call or public service whilese to plates; or, again, in cab or public service vehicles, to

plates; or, again, in cab or public service venucies, to increase plates.

Plate Clutch.—A clutch depending for its action on friction applied to the surface of plates. These plates are usually secured to both driving and driven parts of the clutch, and are so arranged that those on the driving can be slid into contact, as required, with those on the driven shaft. The plates are often made of sheet metal if many are used in a clutch.

Platfum.—A rare and extremely refractory metal

Platinum.-A rare and extremely refractory metal rissinum.—A rare and extremely retractory metal under heat; consequently it is much used for contact makers and tremblers at the point where the circuit is made and broken and where it is subjected to the great heat of the spark. A great deal depends on keeping the surface of these platinums clean and level, to ensure that they give good contact.

Platinum Tipped Sorews.—See Contact and Platinum.

Plust. (See Enarching Plust.)—The word is also plust.

Plug. (See Sparking Plug.)—The word is also used for the wash-out plugs in bollers of steam

Plunger Pump.—A pump from which fluid is forcibly delivered by the action of a plunger working in a barrel into which the fluid is drawn through a non-

in a barrel into which the fluid is drawn through a nonreturn inlet valve.

Pneumatic Tyre.—See Tyres.

Poppet Valve.—The same as a mushroom valve,
a name given it on account of its shape. This is the
usfal type of valve used on the internal combustion
engines of cars. The lower side of the mushroom
head, all round near the circumference, fits on the
seating, and may be flat or bevelled according to the
shape of the seating.

Popping.—When the inlet valve does not close
quickly enough before the explosion the beginning of
the explosion may tend to escape through the still open

inlet valve, in which case part of the explosion passes through the inlet pipe to the carburettor, causing a p-typing noise in the carburettor.

POPE.—A passage formed life the body of the part to which it belongs. More especially applied to the inlet and exhaust passages in cylinders.

Post Bax.—The strip of metal dividing one port from its neighbour. Usually in steam engines.

Post Fases.—The surface in the steam chest through which the opening of the ports occur.

Postsive Action.—Action obtained through the medium of solid mechanism. When a valve is lifted bodily by a selid can bearing against it, it is said to be positively operated—but not if lifted by spring action or suction.

Potential.—Potential may be regarded as the sort of level of electric pressure, and therefore "difference in potential" means "voltage."

sort or level of electric pressure, and therefore "difference in potential" means "voltage."

Power.—The capacity for doing work. (See Rearse Powers.)

Pre-Ignition,—When from any cause ignition occurs too early in the cylinder, it produces an unpleasant knock in the engine, sometimes even stopping it, owing to tite explosion occurring too early and tending to drive the piston downwards when it is on its upward stroke, with the engine running in a given direction. Presignition is usually caused by over-heating, which in turn is frequently due to a deposit of burnt carbon on the walls of the cylinder and combustion chamber, such deposit resulting from excess of in the cylinder having been burnt and deposited on the walls in the shape of earbon.

Pressure Feed.—See Feed.

Primary Battery.—A battery capable of itself generating electric current, as opposed to an accumulator, which is only a medium for storage electricity.

Primary Circuit.—The low tension circuit in an ignition system.

an ignition system. Primary Shaft,-The driving shaft in a gear-

Propeller Shaft.-The shaft by which the engine Propellar Shart.—The shart by which the engine power is transmitted from the gear-box to the live back axle, or to the counter shaft driving the road wheels. Since at its one end the gear-box is secured to the frame which moves up and down on its springs, and at the other the shaft connects with the axle that is supported directly on the road surface without the intervention of directly on the road surface without the intervention of springs, there is a tendency for the front end to move up and down relatively to the other. Therefore, owng to the constantly varying angle at which the propeller shaft on a live axie car has to work, universal joints are provided at one or both ends. If only at the front end, provision is made for a slight sliding movement at the other end, as the distance between the driving bevel and the front end of the shaft must vary somewhat with

the varying angle of the shaft.

Palley.—A small wheel designed to drive or be rotated by either flat. V section, or round types of belt for light work, as, for example, in motor-cycle transmission, or for the driving of cooling fans, etc., in

car work.

Pamp,—In car work pumps are used for the supply
of shid, either water or oil, to the parts requiring it.

Broadly speaking, they may be classified as reciprocating and rotary pumps, the reciprocating being of
the plunger type (See Flungar Pump); while the
rotary include centrifugal and the gear pump, for which
see under their respective headings.—For steam waggons and cars a pump is usually of the plunger variety,
and in large waggons sometimes worked directly by a
little steam cylinder connected with it.—Pumps are
also used for the supply of air pressure to tyres or to
the oil or petrol tanks. In the latter case they may be
driven from the engine, or where enhaust pressure is the oil or petrol tanks. In the latter case they may be driven from the engine, or where exhaust pressure is used, be merely hand pumps to obtain sufficient pres-sure to start the engine, after which the engine provides the pressure.

Quadrant.—For practical purposes a quadrant in automobile nomenciature means the metal arc which frequently forms the combined rack and index for the operation of control levers, and for holding them in any required position.

Racing of Engine.—Allowing the engine to run-over-fast. It sometimes happens when the engine is run-

ning with the clutch out, but engines can be over-driven with the clutch in and the vehicle moving. Racks.—The word usually given to the seriated quadrant along which the control levers are regulated the serrations of which hold the levers in any position

desired.

Eadiator.—An appliance for cooling the circulating water which in being passed through the radiator is split up so as to afford as much contact as possible to the cooling surfaces of the radiator, which obtain their cooling effect from the air.

Eadius Rod.—A rod by which the back arie is anchored or held in place more or less in a longitudinal direction, and which also transmits the thrust from the driving wheels to the frame of the car, thus ensuring

driving wheels to the frame of the car, thus ensuring that the frame and body of the car move with the

Ratchet.—A wheel with teeth cut in a particular way so as to engage with a pawl only in one direction of motion, and in the other to overrun the pawl. (See

Pawl.)

Registration.—By law every vehicle running on roads in Great Britain has to be registered and carry an identification number, assigned to it on paying the

registration fee.

Regulator.—The throttle. Usually applied to the steam cars, in which the word is also applied to the device which governs the amount of air pressure to the

Resistance. — A device to oppose the flow of electrical current. Resistances are usually made variable, and thus can be used as a means of regulating

variable, and thus can be used as a means of regulating the flow of electrical current. As a resistance in the circuit results in the production of heat, such resistances may also be for warming apparatus, etc.

Retard — When the timing variation of the spark in the cylinder is so placed as to cause the spark to take place late in the engine cycle of events, it is said to be retarded. With a spark fully retarded, the piston is somewhere on its way along its working stroke before ignition, and consequently explosion takes place.

Reverse Gasr.—The mechanism for enabling the car to travel backwards. If a driving geat wheel is rotating in a clockwise direction, the driven shaft will revolve in an anti-clockwise direction, but if the drive be transmitted with an intermediate gear interposed.

revolve in an anti-clockwise direction, but if the drive be transmitted with an intermediate gear interposed between the driving and the driven shaft, the latter will rotate in a clockwise direction—exactly the opposite to what it did when in direct gear with the driving shaft. It is on this principle—by the introduction of a third gear—that the reverse is obtained in the gear box of a petrol car, and in some steam cars, though, in gentral, backward movement of the steam car is obtained by reversing the engine through the medium of the value motion. of the valve motion.

Rheostat. - Another name for an electrical resistance.

resistance. Eliza—The metal ring or band of flanged sections at the tryrs. Many of these rins are new made detachable, so that when a tyre failure occurs, the tyre and rin can easily be removed bodily from the wheel, and substituted by another tyre afte rin.

Ring Lubrication.—Some bearings, which are designed with a trough of oil underneath but not touching the journal, are provided with flat metal rings hanging from the shaft and dipping into the oil. The retation of the shaft journal causes the rings to revolve, and thus oil gets carried on to the journal.

revolve, and thus oil gets carried on to the journal.

Rings.—See Packing Ring and Piston

Risg.—A metal pin connection usually employed for joining metal plates together. The rivet is formed with a head on one side, and is forced through the holes in the plates. The projecting end as then hammered up until it also is formed into a head, and between the two heads the plates are tightly gripped. The heads may vary widely in shape. Rivetting may be done either hot or cold. In the former case, the rivet in cooling tends to contract and grip the plates were tightly.

very tightly.

Rocker.—See Rocking Lever.

Rocking Lever.—A rocking lever is a lever made
with a shaft as a fulcrum, and around this shaft it

oscillates, or, if made in one with the shaft, it oscillates with the shaft in bearings around the latter.

Roller Bearings are bearings in which the sliding action of the ordinary plain bearing is supplanted by the rolling action of rollers, in a way exactly similar to that of ball bearings, but whereas each ball gives little more than a point of contact, every roller affolds a contact line of appreciable breadth.

Roller Chain.—In a block chain the metal blocks that come in between the restli of the claim when

ROLLET Chain.—In a block chain the metal blocks that come in between the teeth of the clain wheel, when working, involve a more or less sliding contact against the surfaces of the chain wheel teeth. To

when working, involve a more or less sliding contact against the surfaces of the chain wheel teeth. To overcome this, the roller chain has been introduced. In this, hardened steel rollers capable of easy rotation on steel bushes are substituted for the blocks, and the teeth of the chain wheel are modified accordingly. Thus the working contact between the chain and the teeth is one of rolling, not sliding contact. Rotary Pump.—A pump in which 'the fluid is pumped by rotary action.

Rotary Pump.—A pump in which 'the fluid is pumped by rotary action.

Rotary Walva.—A type of valve of which we may see more in the future. It is usually employed for regulating the supply and escape of gases for the cylinder, and this seffected by revolving in a cylindrical chamber in which ports are cast. As the valve itself also has ports which register for those in the chamber at the proper moments, it is enabled by its rotation to regulate the passage of gases to and from the cylinder.

Rubber Tyres.—Sold rubber tyres as opposed to pneumatics are used largely on industrial vehicles of all sorts, especially on the heavier types. It is worth noting that vehicles above 2 tons in weight; if fitted with rubber tyres, are still allowed a speed of 12 miles an lour, which is considerably more than that permitted with hard tyres. The law here nakes a practical difference between rubber and metal tyres.

with hard tyres. The law here makes a practical difference between rubber and metal tyres.

Runabout.—A small type of car generally intended

Runabout.—A small type of car generally intended for light town work.

Safety Valve.—A fitting applied to boilers to enable superfluous steam to be discharged as soon as the pressure exceeds a certain working maximum, at which the valve is set. This setting is obtained in the case of motor vehicles by calibrated springs which hold the valve on its seating until the maximum boiler pressure is reached.

Saloon Limousine.—A lunousine in which all the casts are enclosed.

seats are encl

Saturated Steam .- Steam that is not super-

Saturated Steam.—Steam that is not super-heated.—(See Superheated Steam.)
Screen.—A glass protection placed in front of the driver, and issually nowadays so devised as to be put-any required angle. Wind screens are often made in two pieces, each of which can be set at any angle to the other. They are also sometimes employed to protect the occupants of the back seats of a car from the weather.

weather.

Sorew.—A screw is too well known to need description, but it may be konted out that its principle
is absolutely only that of the incline plane or wedge,
following a circular path instead of a straight one.
There are various sorts of screws, as, for example, the
adjusting screw (the purpose of which its jobwous from
its name); counter-sufet head screw, which has its head
fitted ling counter-sufet known terms, so as to leave it this

its name); counter-sumk head screw, which has its head fitted in a counter-sumk recess so as to leave it flush with the surface; the contact screw, the grub screw, the set screw, and many others.

Soraw Thread.—The thread of a screw is the upstanding part in the shape of a cool, which fits use a correspondingly shaped holical recess in the hole that accommodates the screw. Into this it threads.

accommodates the screw. Into this it threads.

Souttle Dash.—A term applied to the type of
dash board which more or less merges into the bonnet
at the front, and in being carried backware practically
follows the lines of the car body.

Secting.—See Yalve Seating.

Secondary Circuit.—High tension circuit.
Sectional Tyre.—See Block Tyre.

Sector.—The word is sometimes applied in the
same sense as the word "quadrant," but at other
times, as when used in irreversible steering gear, it is
really a section of a gear wheel acting as a lever with
teeth suitably cut.

Seize.—When a piston or bearing is overheated

from any cause, so that it binds tightly in its cylinder

from any cause, so that it binds tightly in its cylinder or bearings, it is said to have seized.

Selector.—In modern change speed gear each change in peed is gefferally obtained by sliding one other palrs of gears into mesh with each other, each separate slide being effected by its own separate fork. The sliding guide or selector rods, which usually lie liorizontally, are slotted at their outer ends, and these slots are so arranged as to lie in a line, and thus the selector (worked by the driver from the change speed lever) is free to slide into the slot in any required rod as desired. Sometimes the selector goods are substituted by levers which have slotted of forked ends.

Self Starter.—A device for turning the engine crankshard to start the engine, instead of by the usual crank handle. Engine starters may be either mechanical, using the stored energy of a spring compressed by

cal, using the stored energy of a spring compressed by cal, using the stored energy of a spring compressed by foot; here may depend upon compressed air admitted to the engine cylinders, or to the cylinders of a little subsidiary starting engine (usually with a pinon on its shaft in mesh with the gear ring on the engine flywheel), or they may be electrically worked, in which case they usually also act through a pinion in mesh with a gear ring on the fly-wheel circumference. For power, they depend on accumulators, and consequently the electric starter is often combined with the electric livit equipment of the car. light equipment of the car.

he eight state is often commonted up with the electric.

Beries.—When a battery is connected up with the positive pole of one to the negative pole of the next cell and so on, the battery is said to be connected up in series, as opposed to being connected in parallel.

Berles Wound,—Electricity is produced if an iron bar be passed between the poles of a magnet. The stronger the magnet the more work has to be done in passing the bar between the poles, and the more electricity is produced. Magnets are of two sorts, permanent or electro magnets, and the latter, which are much the stronger, depend on a current of electricity being passed ilong an insulated circuit or winding passing round and round them. When this winding is made part and parcel of the man circuit of the dynamo, the machine is known as a series wound dynamo.

Bet Borew.—See Borew.

Shack.—A shackle is a double link joint like the connection of a spring to the frame.

Bhatt.—There are many types of shaft in motor

**Shaft.**—There are many types of shaft in motor work. There is the cam shaft (see under that heading) driven from the crank shaft, which in turn drives the shaft upon which the chitch is mounted—the clutch shaft. This occasionally is its one with the primary shaft in the gear box, whence the power is taken shaft in the gear box, whence the power is taken through gears to the scendary shaft or lay shaft. On reaving the gear box it may be carried either to the counter-shaft, which here across the frame of the car and is provided with a balance gear (to enable the power to be transmitted by side chains to the rear wheels), or the propeler shaft—otherwise known as the cardan shaft—may take the drive to the shafts of the rear live axle, which latter are usually connected up by the casing of the balance gear.

Shaft—See Econnected.

by the casing of the balance gear.

Sheaf.—See Ecoentrio.

Shock Absorber.—A device usually of the dash pot variety (see Dash Pot) to dealen the action of the axle springs in their recoil. It is most desirable that the springs should act over road inequalities as quickly as possible, but it is also most desirable that they should return to their position quietly.

Short Circuit.—When a current of electricity, instead of traversing the entire circuit intended, leaks at ones upin and so returns by a short cut it is called

instead of traversing the entire circuit intended, leaks at some point and, so returns by a short cirt, it is called a "short circuit," or "short" for brevity. The terminal gap become loose, touch the frame and short circuit the current, or the wire may fray and a strand touch part of the frame or engine. Or, again, a short circuit may be caused by rain falling on the sparking glug and acting as a path for the electricity. Short circuits usually show themselves by irregular misfiring in the cylinder affected thereby, but sometimes one gets intermittent shorts, which is evidenced only by occasional fits of misfring now and again, or by a solitary misfire at considerable intervals.

Shunt.—A shunt is a loop line, as it were, from off

Shunt.—A shunt is a loop line, as it were, from off the main electric circuit. One most generally comes across it in connection with the term "shunt-wound."

Shunt Wound.—When the windings round the poles of the magnets in a dynamo consist of a shunt from the main circuit, the dynamo is said to be shunt wound. (See Berles Wound.)

Bide Bilp.—This takes place when the endency to sideways movement of the car is greater than the adhesion of the wheels on the road surface. Consequently it takes place on slippery surfaces, and can be counteracted to a considerable extent by roughening the surface of the tyre to enable it to obtain a better grip on the road, also by careful braking.

Bight Feed.—A device generally used in conjunction with which can be solved the supply of oil is being duly passed to the engine and bearings. It

junction with chiricants to show that the supply of ois being duly passed to the engine and bearings. It usually takes the form of a glass tube. As it is let into the pipe line, as it were, one can see the oil passing to its destination drop by drop. Sight feeds are often provided with fine adjustment for regulating the oil flow.

**Bilencer.**—The metal box into which the exhaust

gases from the engine are passed and expanded before going out into the atmosphere. Some silencers merely depend for their clencing action on allowing the gases to expand in them, so that they can then take their own time more or less in flowing out into the air, while others depend upon baffling them, while others com-

bine both these systems.

Silent Chain.—The more correct term for the silent chains that have recently come into so much favour is "inverted tooth chains." In these chains the links are made up of metal plates, shaped at each end with tooth projections facing inwards towards the centre of the chain wheel when maction. These toothed plate links are threaded on steel bushings or rockers which minimise friction, and are so arranged that they alternate in direction; that is to say, if one plate stretches to the right, that next to it stretches to the left, and these plates being similar at both ends, the same arrangement occurs at each end of the links, iame arrangement occurs at each end of the links, and so on until the chain is completed. Now as these links swing on their bushings, or rockers, with any movement of the chain, they adjust themselves to the pull of the chain or to the surfaces on which they bear; thus when wear occurs to the chain wheel they are, by this faculty of self-adjustment, to some extent independent of any consequent loss of pitch.

Single Cabriolet.—A cabriolet with no light or window in the quarter behind the door.

Single Landaulet.—A landaulet with no light or window in the quarter behind the determined to the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter of the courter

window in the quarter behind the door,

Skew Gear. Skew gear is an arrangement of spur wheels in mesh with each other, the spur wheels inking their teeth cut diagonally across the face of the wheel circumference, so that each tooth comes grade. ally into engagement with its companion tooth on the other when instead of coming suddenly into action along its lengths and the case of the ordinary straight-cut test of gears. If the teeth are cut at a sufficiently acute angle across the face of the crounference, or the circumference face is sufficiently broad, each tooth amounts to a screw thread

Skid .- Another word for side-slip.

Sleeve.—A casing, usually surrounding a shaft and generally capable of sliding along that shaft. The best

examples of sleeves are found in grar boxes.

Sieve Valve.—Besides the ordinary steam slide valve, which is well-known, recent years have brought us slide valves for internal combustion engines, and the best known of these is the system in which the valves constitute sliding liners in the cylinder and surrounding the piston. These valves are made to slide up and down, and are formed with ports out in them in such positions that at the right moments in the valve move-

positions that at the right motients in the valve move-inent these ports reguler with passages permitting the nilet or escape of gas, as the case may be. Slide-valves may also be arranged to work in separate chambers.—See Walve.

Slige-Sometimes when a clutch is put in very violently and the surface of the road is slippery the driving wheels momentarily revolve without bitmig the road; they are then said to be slipping. The word is also used loosely for side-slip.—When the friction in a clutch is from any cause; a difficient and the surfaces of the driven member do not with conditions also result in what is known as "slipping of the clutch." Sometimes

in changing gear it is desirable to slip one's clutch slightly, and this can be done by almost taking it out of gagement, or holding it in very light engagement.

Snug.—A small projection sometimes fitted on bolts

Sing.—A smail projection sometimes fitted on boils to prevent their turning round in their holes.

Soap Stone.—An insulating material at one time considerably used to form the bearing upon which the rocking shaft for the igniter passed through thewalls of the cylinder in low tension systems of magneto limition.

ignition.

Socket.—See Ball and Socket.

Solder.—A mixture of 66 parts of lead to 34 of tin used for joining metals together where no particular strength is required, but where an easy and quick process is desirable. A flux is necessary in connection with this process, the flux varying with the metal to be joined up. Spirits of sait, "killed" by dissolving as much zunc therein as the spirits will hold in solution, is used for soldering, iron and brass; sail aumoniae for used for soldering iron and brass; sal ammoniac for copper; but when iron is soldered it must first be tinned. In any case absolute freedom from dirt and grease is necessary where the solder is to be applied. Only quite a moderate temperature is required.

Soldering Bits or Soldering Iron.—Somewhat of a misnomer, as it is usually of copper, of sufficient mass to hold a considerable amount of heat for soldering

Soldering Lamp .- The blow-lamp used for

Solution.—A word usually applied to rubber in more or less liquid form It was formerly much used for applying patches, but for this it has been generally superseded by the vulcanising process. It consists of pure rubber discolved in spirits.

Sooting.—The deposit of carbon in the cylinder,

owing to impurities such as too much lub etc. Its presence is particularly felt when the sooting is deposited on the sparking plug and affects the

regularity of the fing.

Sparking Plug.—A sparking blug is the device by which the electric current for the ignition is carned from the outside to the inside of the cylinder (leaving from the outside to the metic of the cylinder (teaving the latter gas-tight) and also alfords the point of which the spark is produced. Ordinary sparking plugs afford a connection for the high tension wire at its outside end, whence a central insulated wire carries the current end, whence a central insulated wire carries the current to the inside of the cylinder. The insulation is necessarily very thick and very refractory under heat, for with the continuous explosions in the cylinder the sparking plug becomes extremely hot. The insulating material is head in a metal body which screws into the rylinder netal, making with the aid of a copper and assultors washer on the face of the metal a gas-taght joint, and, as the heat to which the plug is subjected causes expansion of the insulation, provision also has to be made for this in the design of the spaking plug.

Spark Timing Variation.—At its full speed the internal combysion engine is running so fast that the crank pun and piston have travelled quite an appreciable distance in the interval between the passing of the spark and the time that the explosion begins to

the spark and the time that the explosion begins to the spark and the time that the explosion begins to take full effect. Consequently, at high speeds the spark should occur in the cylinder earlier in the cylinder of engine events than at slow speeds. Now the contact maker is practically made up of two main parts, the one rotating with the camebach, the other fixed. If, therefore, the fixed part can be made so that it can be rocked slightly in order that the fixed and rotating parts make the contact earlier or later as required in the revolution of the engine, this variable thing will have been achieved, and this is exactly how it is effected.

Smealfie Granita is the basis of relative weight.

Specific Gravity is the basis of relative weight. We take the weight of water as the standard unit, calling it r, and if a good bulk of any substance, weights half as much as the same bulk of water, then its specific gravity will be half (0.5), if a quarter, e.z., and

so on.

Speed.—In the United Kingdom cars are restricted by law to a maximum speed of twenty miles an hour for cars up to two tons in weight. Above that weight up to five tons, twelve miles per hour has to be observed if the tyres are of rubber or soft material, whilst, if of hard material, eight miles per hour is

permitted to vehicles of from two to three tons weight unladen, and five miles per hour for three to five-ton cars. Call vehicles hauling trailers are restricted to five

miles per hour. mass per nour.

Speedometer, — An instrument for measuring, and often for recording, the speed of a car. It should preferably be worked from the propeller shart, as the back wheels may give a certain amount of slip, and the front wheels are objectionable for the purpose owing

tront wheels are objectionable for the purpose owing to the necessity for them to swivel.

Spigot.—When the end of one pipe fits inside the beginning of another pipe, as in ordinary water mains, etc., it is called a spiggot join, and when one shaft at its end is hollowed out to provide accommodation for a bearing in which the end of another shaft shall rotate in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the alignment with it, it is called a spiggot bearing. Spiggot bearings are often found in gear boxes between the driving and driven ends of the divided gear box shaft.

shaft.

Spiral Gear.—A misnomer frequently used for skew or helical gear.

Spiral Byring.—A spring the shape of the main spring of a watch.

Spiah Lubrication.—See Lubrication.

Spilah Lubrication.—See Lubrication.

Spilah Lubrication.—See Lubrication.

Spilah—A device for preventing a carfrom running backwards down hill. In the older designs of cars the sprag was a stout steel rod that could be let down at will so as to dig into the road if the car ran backwards but nowedness a ratcher mechanism is room. wards, but nowadays a ratchet mechanism is more generally favoured, in which a pawl can be let down at will on to the teeth of a rachet, which latter, if the car attempts to run backwards, is prevented by the pawl from rotating backwards, and thus any movement is

stopped.

Bpraying Chamber,—The same as the mixing chamber of a carburetter.

Bpring.—Springs are of many sorts. Firstly, there are springs for supporting the frame and carrage on the axles. These may represent a single arc of a circle, in which case they are called half elliptic springs, or there may be two half elliptics opposed to each other and meeting in a knuckle joint at each end; they are then called full elliptic springs, while, if instead of a dumb iron a short spring of approximately the same shape as the dumb iron is substituted therefor and constraints and the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the past of the pa aumb iron a snort spring or approximatery the same shape as the dumb iron is substituted therefor and conscaected with a half elliptic spring the result is a three-quarter elliptic spring. Cee springs are so called from their similarity to the letter "C," the body being suspended from the upper end of the C. For carriage suspension and mechanism helical, volute, and spiral springs may be used, the volute spring being like a helical spring, the coils towards one end becoming smaller and smaller in diameter. This form of spring has much to recommend it for some purposes, for the load increases that the smaller coils come into action; thus a well graduated effect is obtained. The term spiral spring is often used to denote a helical spring, but it should in reality be confined to those springs similar in shape to the mainspring of a watch. Helical and volute springs of round section steel are most generally employed for the ignoration steel are most generally employed for the ignoration purpose & bringing the valves back to their seatings after the cam or engine suction has lifted them.

rine suction has lifted them.

Drive.—In some cars the power from the engine, instead of being transmitted through more or less rigid mechanism to the wheels of the car, is taken

iess rigo mechanism to the wheels of the car, is taken up by interposing springs which sounewhat reduce the shock of any sudden application of power. This, it is claimed, prolongs the life of the tyres.

Bpring Washar.—A washer designed so as to exercise a spring effect on the nut or bolt so which it is fitted, so that the nut is pressed hard against the sides of the thread and so prevented from working loose.

Spur Gear.-Wheels for this purpose are known

mpur usear.—Wheels for this purpose are known to a good many as cog wheels.

Stagtered.—Spokes are said to be staggered when they are alternately sloped or inclined in opposite directions to each other, the one tending to lean over from right to left, its neighbour from left to right and so on.

Starter.—See Eal' Stanton.

Starter. See Self Starter.

Stauffer Lubricator.—The caps fitted to bear-

Stauffer Lubricator.—The caps fitted to bearings for the supply of gresse. The tops of these caps are made so that they can be scewed down and so squeeze the gresse into the bearing.

Stay.—Amember used to hold or steady any one part of construction relatively to another part. The word should be confined to those staying members only that are in tension.—See Strut.

Steam Gless.—The sort of box, attached to the cylinder, in which the slide valve works.

Steam Engine.—See Bungine.

Steal.—A metal widely used in motor far construction owing to its strength. Ordinary steel is iron chemically combined with carbon which has a hardening effect, but as the proportion of carbon is only a matter of degree, steels vary enormously, from mild steel, which is practically little more than wrought iron and is comparatively soft and tough, to high carbon steels used for tools which are extremely hard, and though possessed of great strength have not the toughness of the milder metal (see Gruetble Steel). This last sometimes is called cast steel, but there is also another form of steel which is cast in much the same way as iron to obtain complicated shapes. To differentize, it is most convenient to call this last asme way as iron to obtain complicated shapes. To differentiate, it is most convenient to call this tast material steel casting as opposed to cast, crucible, or tool steel. Such steel castings are different in their nature from iron castings, being much tougher and capable of being bent. Tool steel is made by melting down comparatively high carbon blister steel in a crucible. Mild steels are usually made by the Bessemer or Siemens process, the latter being more general. Between the mild and high carbon steels is an infinite

perween the mula and might carbon steets is an immute range of carbon contents with consequent variety of strengths and elasticities.

Steel Castings.—See Steel.

Steering Column.—The hollow column carrying the steering wheel at its top, and incidentally also generally accommodating the levers for operating the

engine.

Steering Connecting Rod.—The rod connecting the lever arm on one of the steering road wheels with the lever operated by the movement of the

steering wheel on top of the column.

Steering Coupling Rod.—The rod connecting the lever arms on each of the two steered road wheels.

Steering Gear. — The mechanism used for directing the car as required. For lighter cars it practically invariably of the Ackermann type with the centre part of the axle rigidly secured to the springs and only the stule ends of the axle, secured to the and only the sub-ends of the asic, section to the centre part by enlarged and exceeding strong knuckle joints, capable of novement. In the theoretically correct steering gear a line prolonged through the centre of the axis of the pivot on which the steering sate swings should coincide at the ground with the axie swings should coincide at the ground was an exercical axis of the whole (see also Irryversible Steering).—In many heavy steam waggons and tractors the whole front axle prots on a centre pin, movement around this centre being controlled by the driver through chains wound round a drum so that when the chain on the one side is slack the chain to

the other side of the axle is correspondingly tightened.

Stearing Look.—The maximum angular amount that the front or steered wheels can swivel round from side to side. It is sometimes indicated by the minimum circle in which the vehicle can turn.

Stearing Wheel.—The wheel at the top of the steering column, by the rotation of which the driver controls the direction of the car.

Stop Walve.—A sciew down valve for shutting of

steam supply.

Strainer.—See Filter.

Striker.—A name sometimes given to the selector arm or lever. Also the arm of the rocking lever through arm or lever. Also the arm of the rocking lever through which in many valve systems, the valve is actuated from the cam. The word also applies in low tension magneto ignition to the arm of the rocking lever which breaks the contact inside the cylinder.

Striking Fork.—The forked lever or rod that alides the gears in or out of action.

Striking Rod.—The same as a selector rod.

Stroke.—The full travel of the piston. It equals the diameter of the circle described by the crank pin. The ratio botween stroke and bore is one of great importance in engine design. Of late years the tendency has been to make the stroke longer and longer relatively to the bore, and this has certainly led to an

extremely efficient engine.

Strut.—A constructional member used to hold and

Strat.—A constructional member used to hold and steady one part of a construction relatively to another. The word, however, should only be applied to those steadying members that are in compression. (See Biasy.) Stub Axie.—The short swivelling axie on which each steering road wheel runs.

Stud.—A headless bolt screwed into a casting or main construction and left with a considerable length projecting, this length being screwed. The part secured by the studs is drilled so that it can be passed over the stud, and nuts screwed on to the projecting ends of the studs, holds it in place.

Stuffing Box.—See Gland.

Sub Frame.—See Under Frame.

Surface Carburetter.—See Carburetter.

Suspension.—Generally the supporting of the frame and body on the axies. In automobiles this invariably carried out through springs, which may be arranged to support the frame either at three or four points. The three point suspension was at three interesting the support.

arranged to support the frame either at three or four points. The three point suspenision was at one time greatly in vogue, but is now not so widely used. The word is also used to designate the manner of securing engines or gear boxes to the car frames. As it is engines or gear boxes to the car frames. As it is impossible to make a frame alsolutely rigid some makers secure these deguls to their frames at three points only to allow the frame its inevitable "whip" without unduly stressing gear box or engine. This three point suspension is, however, only used for engines up to a moderate size.

Sulphating.—The action that takes place in the

plates of an accumulator when ill-used or neglected. It is evidenced by white, either in spots or in a film on the plates. In such case the accumulators should be rinsed out, and any loose pieces removed, then filled with fresh acid solution and charged at a low rate

with fresh and solution and charged at a low rate until the plates resume their normal appearance.

Sump.—A well in the bottom of the crank case.

Sumps.—A well in the bottom of the crank case.

Superheasted Steam.—Ordinary steam at any given pressure has its corresponding temperature, consideration begins; consequently pressure falls. If therefore such steam falls below this temperature, considerable the temperature drops, the pressure falls. If therefore such steam does any work, that work absorbed, the temperature drops, the pressure falls and a certain amount of condensation takes place leading to further losses. To avoid this, it is possible to impart to the steam a surplus amount of heat, raising its temperature to considerably above the normal point. Such steam in working has a margin of heat in hand and will not condense as easily as ordinary point. Such steam in working has a margin of heat in hand and will not condense as easily as ordinary saturated steam. It is therefore more economical if the additional heat can be supplied economically.

Superheater. A device for superheating the steam, sometimes found in the smoke box of large

capacity boilers on road vehicles. Since box of large capacity boilers on road vehicles, and be carried by law on machines in this country, at might, and lighted with the other lump, within an hour after sunset. It must be so arranged as to illuminate the lack number plate, and also to show a red light at the back.

plate, and also to show a red light at the back.

Tappat.—The mechanism conveying to the valve spindle the movement imparted by the rotation of the cam. It is usually a plunger rod, with a roller bearing on the cam surface, and is generally made of adjustable length so as to leave as little space as necessary between its top face and the bottom of the valve spindle. It works in tubular guides made as long as possible, and a good deal of the quiet running of the engine depends on the tappet design. Many an fitted with express inside so as to come into context more with springs inside so as to come into contact more gently with the bottom of the valve spindle, and where the latter comes in contact are frequently provided with fibre surfaces to reduce noise.

Tare.—The weight of a vehicle when empty. It really represents the non-profitable but unavoidable lond.
Tansion is a direct pulling stress.—The words also apply to what we may call electric pressure, in other words, voltage.

Terminals.—The metal attachments fitted to the end of electrical wires to connect them.

Testing.—The verification of the correctness of every adjustment in a car. Also to a lesser extent the determination as to whether any of the material used is faulty. In manufacturing, testing usually is divided into engine testing and chassis testing. The engine when assembled is botted to a stand and run foresome hours under its own power and slowly. This is housen as "unning in" and smooth down the lesser. into engine testing and chassis testing. The engine when assembled is bothed to a stand and run frosome hours under its own power and slowly. This is known as "running in" and smooths down the lesser inequalities of the bearings, pistons and cylinders. Then the fly wheel is coupled to any convenient mechanism for absorbing a measurable amount of power. This may consist of a dynamo, the electrical output from which can be measured, a frictional brake in which the power absorbed is measured by springs or weights, an air brake (in which a fan is used that is known from previous determinations to absorb a given amount of power when driven at a particular speed), or, lastly, an hydraulic brake may be used, though this is unusual. The horse power developed at different speeds is then measured to see if it is satisfactory, and should it not be so adjustments will be made until it is considered right. Often there is then a run of several hours under full power, this being intended, if possible, to develop any weakness which nay be latent in the engine but undiscovered during the "running in." Then when the engine is in the chassis and the latter has been fitted with a rough body a road run is taken to see whether the other parts of the car perform properly, whether all the control levers work sunoothly and without difficulty and whether the gears are reasonably quiet in action, whether the steering it as free whether all the control levers work sunoothly and without difficulty and whether the gears are reasonably quiet in action, whether the steering is as free and accurate as it should be, and so on. This road test, of course, also is hable to develop latent weaknesses due to had material. Usually considerable adjustment is made during the road test to one part and another and the manufacturer commonly employs quite a small staff of experienced men who take every car for a short road run to pass it before it leaves the factory. leaves the factor

take every car for a short road run to pass it before it leaves the factory.

Thermal Efficiency.—The thermal efficiency of an engine or system is the proportion of the total amount of work got out of it compared to the total amount of work got out of it compared to the total amount of work put into it as represented by the thermal value of the fuel put into it. For instance, suppose an engine burning r B. of coal per numtre develops 33 horse-power, and the value of the coal represented 14,000 British Thermal Units (nearly xx.00,000 foot pounds of work, or nearly 330 horse power) the thermal efficiency is to per cent.

Thermo-Dynamics.—Heat and work are mutually convertible. The work done by a brake block in retarding a vehicle generates heat which may leave the brake block almost red hot; on the 4bthe hand, the heat in a fire box is, through the medium of expanding steam, convested into work by the engine. These, are only two familiar examples of a universal law. But we know the exact quantity at which heat and work can be exchanged; 772 foot pounds of work will generate sufficient heat to raise one pound of water? Flahr is temperature. This capacity to mise a pound of water one decree is taken as the unit of thersho-dynamics, and is known as the British Thermal Unit, otherwise B.T.U. Now a horse-power represents the capacity for doing 32,000 foot pounds of work with the capacity for doing 32,000 foot pounds of work work. Unit, otherwise B. 1. U. Now a norse-power represents the capacity for doing 33,000 foot pounds of work in a minute; therefore the capacity to impart about 43 B.T.U.'s per minute represents the equivalent of a horse-power. If all the heat in a pound of coal could be used up it would amount to about 4,000 B.T.U., and so a single pound of coal represents the capacity for doing active respectively.

and so a single pound of coal represents the capacity for doing nearly 12,000,000 foot pounds of work, and if burnt in one minute, nearly 330 horse-power.

Thermo-Syphon.—See Gooling System.

Thread.—See Berew-Thread.

Three-Quarter Cabriolet.—A cabriolet with a window in each quarter behind the doors.

Three-Quarter Landaulet.—A landaulet with a window in each quarter behind the doors. Sometimes called a limousine-landaulet.

Three-Quarter Landaulet.—Three-Quarter lephind the doors.

Three-Quarter Limousine.—A limousine with window in each quarter behind the doors.

Throttle, or Throttle Yalve.—The regulator

of an engine. It is usually either a flap rotated on its axis and so in one position blocking the pipe while in the extreme opposite position it only procents its edge to the inflowing gases, or it may be a piston sliding in a tubular passage, longitudinally or rotatorily, and uncovering ports therein as required.

covering ports therein as required.

Thrust.—Some shafts are subjected to a force acting along their length, as, for instance, is usually the case with the clutch shaft. This is known as thrust.

Timing.—This word is applied either to the ignition of the valve mechanism. As regards ignition, see Bpark Timing Variation.—The timing of valves differs on different eitimes. As a rough general rule the exhanist valve should begin to open when the crank in its at about as degrees from its bottom dead crank pin is at about 45 degrees from its bottom dead centre, and should shut over the top stroke, while the centre, and should sink over the top stroke, while the inlet valve should open just after the exhaust valve has shut and should close at the bottom of the stroke. By drawing full sized a diagram of the circle described by the crank pin, the position of the piston in the cylinder at any of these points can be obtained, and by inserting a wire spoke through the compression cook in the top of the cylinder the piston position can be shown from outside. Then by altering the timing be shown from outside. Then by altering the timing of the grar wheels driving the cam shaft the valves can be arranged to lift at the right moment.

can be arranged to lift at the right moment.

Togile Joint.—A togile joint is a device used where considerable power is required, as, for instance, in applying brake shoots to their drum surfaces. It consists of two short and strong rods bugged together at one end. In the case of brake blocks the outer ends connect one to each block. The toggle links are at an angle to each other, and when the power is applied it tends to force them into a straight line. The result is that the ends tend to move further apart and are moved outwards with great force, thus pressing the lake shoes against the drum. The whole principle depends on straightening out two links originally at an

angle to each other.

Tool Steel.—The same as crucible steel, and capable of being tempered and rendered very hard.

-See Steel.

Torque.—This is the turning effort on the shaft or rotating part. It is a factor in which the distance at which the force is applied from the centre—in other words, the leverage—is an important influence; in fact, torque is made up by the turning force applied, and the distance at which it is applied from the centre

Torque Rod.—In a live axle there is a tendency orathe drive to twist the axle round with the driving shaft, in the direction of the latter's rotation; that is to say, to whirl the axle transversely around across the cir, like the hands of a clock. To avoid this, torque rolls are fitted. Usually they are led through the top and bottom of the balance gear casing to a pivot of one of the cross members, a sprang being frequently employed to ease the stresses.

Torque Tube.—Sometlines, instead of a rod, a neat tube cucasing the propeller shaft is employed, although to call it a torque tube is generally somewhat of a misnomer, for the ordinary torque tube, although it acts as a distance fleece similarly to a radius rod, does not usually do much to counteract torque, (
Touring Car.—A term generally denoting a car Torque Rod.-In a live axle there is a tendency

Touring Car.—A term generally denoting a car with an open body, usually fitted with a cape cart hood. Tractive Resistance.- The resistance which the road wheels of cars experience from the surface of the road. The tractive resistance for solid tyres is about go per cent, more than that for pneumatics. As the diameter of the wheel increases so the resistance decreases, and up to certain lunits the resistance also decreases with increase of breadth of treat.

Trambler.—The device used for breaking the circuif. With contact makers of the make and break type (see Contact Maker), the trembler is the contact maker, but with wipe contacts the trembler is when the coll where its action is as follows:—
When the wipe makes contact, the current passes
in the coil and magnetises the core. The trembler
is then pulled down against the core and so breaks
the circuit. When the circuit breaks, the core ceases to be magnetic; the trembler then springs away from the core, and by making contact joins the circuit up again with the result that the core is again magnetised, and the whole process repeated. All this happens tremendously rapidly so that the coil in breaking film contact to core and back again, does so quickly as to emit a continuous buzz, the note of which affords a gauge of the efficiency of the trembler's working. When working well, the trembler should emit a fairly high note.

This Red.—The rod in certain forms of low ten-

Trip Rod.—The rod in certain forms of low ten-sion magneto ignition, by which the movement of a cam is transmitted to the rocking lever inside the cylinder so as to move the lever and by thus breaking

the circuit to cause a spark.

Trunnion.-A journal secured to a part to enable it to be swung or oscillated on the centre of that iournal.

Turbe Ignition.—In the early days of the automobile, the charge from the cylinder was exploded, in most cars, by means of a tube kept red hot by a lamp placed at the sade of the cylinder. To resist the heat these tubes were of platinum, and consequently very expensive. Tube ignition is now obsolete.

Turing Up.—Adjusting a car, more or less by trial and error in ruining it, so as to get the best possible results on the road.

Turn Buckle.—A device for tightening up wires or any thin diameter rods that are increly acting in tension, as, for example, the brake pull rods. Into each end one of the halves of the rod is screwed, but as a right hand screw is used for one, and a left hand screw for the other, rotating the turn buckle in one direction forces them apart, whilst if the other it pulls them together, and so tightens them as required.

Two-Cyole Engine.—In a two-stoke engine an explosion occurs in each cylinder once for every revolution of the crank shaft; consequently the engine annet have a suction and compression stroke, as in

revolution of the crank shart; consequently the eighne cannot have a suction and compression stroke, as in the four cycle type. In this engine compression usually in part takes place in the crank chamber, or by a separate compression nump, and as the piston is forced down by the explosion the exhaust port is uncovered by the puston, while almost immediately after the contraction. covered by the juston, while almost immediately after the inlet counecting the crank chamber with the cylinder above the piston is uncovered. A baffle plate, however, prevents the inflowing gases from reaching to the exhaust port at first, and before any serious loss could take place, the exhaust port is covered up by the piston moving on its up struke.

Two to One Gear.—The same as Distribu-tion Gear.

Two to One Gear.—The same as Distribu-tion Gear.

Two Way Cook.—A cock or tap enabling fluid passing through it to be made to flow in either of two directions at will, or to shut it off entirely.

Tyre.—One of the most important features of motoring. Rubber tyres are pneumatic or solid, but in some cases, on heavy utility vehicles, iron or steel tyres are used. In the heavy vehicle class, the speed may depend on the sort of tyre used, for if rubber tyres are fitted to any vehicle up to the final weight tyres are fitted to any vehicle up to the final weight limit of five tons, it may run at the maximum twelve miles an hour, whilst if steel or very hard tyres are used, the speed has to be kept down to five miles per hour, for vehicles of three to five tons unladen weight, and eight miles for machines of from two to three tons weight uniden. On heavy wagons and lornes, if fitted with strakes the latter must comply with the regulations as to distance apart, &c – Amongst the solid rubber tyres there is a considerable variety: there are single and tyres there is a considerable variety: there are single and twin tyres, the latter for heavy loads on back wheels (twins are seldom used on front wheels). Then there are the sectional, or block tyres (see under that heading), and others in which the tyre consists merely of a series of rubber section pads projecting through the steel of the rim.—The pneumatic tyre is composed of an inner tube with valve, which latter when in position passes through the fellow of the wheel, and the outer cover which is of rubber and fabric thickened at the edges on as to form a beading, fitting into correouter cover which is of rubber and tabric thickened at the edges so as to form a beading fitting into corre-sponding grooves in the rim, and also thickened on the tread. The arrangement of the beading is such that the pressure of the tyre tends to hold it in position in the rim, and the higher the pressure, the tighter the tyre holds. The fabric is introduced into these outer covers particularly for protection, but partly to render them inextensible. The inner tube is usually only of rubber, and would stretch to bursting point when pumped up, if not restricted within the outer casing. In fact, if there is a large hole in the outer casing there is a risk of the inner tube bursting through this. To guard against such contingencies of late years some inner tubes are reinforced with fabric all along the outer part of their circumference, so that whilst the fabric does not prevent their being fully blown up, it prevents the tube being stretched beyond a given degree.

degree.

Under-Frame.—A small sub-frame placed in between the main longitudinals, and usually carrying the engine and gear-box, but sometimes only taking one of these details.

"Index-Shield.—A sheet metal protection, in some

one or these creaus.

Under-Shield.—A sheet metal protection, in some cars made in one with the metal from which the frames are hydraulically pressed, to guard the engine and gear-box from undermeath against stones, mud, and et from the road.

wet from the road.

Union.—See Joint.

Union.—See Joint.

Union.—See Joint.

Universal Joint.—A joint to impart flexibility to a rotating shaft. The universal is, in fact, a double-angle joint, similar in principle to grinbals of a compass. The shaft is connected to a pin in such a way that it can swing around the pm in one plane—say in a plane, for the moment, horizontally transverse to the car.—whilst the pln itself is free to turn in a vertical plane it right angles to the other. Thus the shaft is doubly jointed to allow it to swing sideways, both right and left, and up and down—in lact, in any direction required. An important point about a theoretically perfect universal joint is that the axes of these two joint pins should lie in the same vertical plane.

injoint is that the axes of these two joint pins should lie in the same vertical plane.

**Walwa.**—There are many kinds of valve. Valves in general are for regulating the flow of fluid, whether iquid or gaseous, the simplest being the non-return or check valve, which is simply on the principle of a door, only opening one way, and so only allowing flow in one disertion. Such valves are usually pushed open when the pressure exceeds a certain amount, and shut down on their seating as soon as any fluid tends to flow back. They may be adjusted to open at a given pressure either by making them of a certain weight or by controlling them with a spring. There are several sorts of these valves. The flap valve actually a door, only opening one way. Then there is the ball valve, frequently falling back on to its seating by its own weight, and the mushroom valve, either working by weight or by a spring. The name is most frequently given, however, falling back on to its seating by its own weight, and the mushroom valve, either working by weight or by a spring. The name is most frequently given, however, to the valves which regulate the supply of gases to the engine, enabling it to work. In an internal combustion engine they are usually of the p-ppet type, lifted at the required moment by cam action, and returned to their seating (which is either conical or fait) by a spring. For inlet valves, however, the automatic type is still sometimes used. It is provided with a much weaker spring, to enable the valve to be opened by the suction of the engine. Of late years, slide and piston valves have also been introduced in internal combustion engines. The slide valves are usually made to slide up and down between the cylinder walls and the piston, by eccentric rods working off the distribution shaft in such a way as to uncover inlet and exhaust ports at the required moment, the ports or passages being shaped so as to maintain the opening for the required interval. Piston valves (which are nothing more than pistons uncovering passages at the required moments), are also worked in the same manner in some engues, the platon saliding in their chambers. Then there are rotary valves, which continually revolve in one direction, and at the correct time allow passages cast in them to accide the same manner in the evidence.

varies, which continually revolve in one unrection, and at the correct time allow passages cast in them to register with passages in the cylinder so that the gases flow into the cylinder or escape out of it as required.—In steam engine practice we get rather different kinds of valves, the usual being the "D" valve, made to slide on flat surfaces in which are passages for the flow of the steam, the valve regulating the supply and exhaust at the required moment. In

some steam engines piston valves are employed, the idea in this case being merely an elaboration of the "D" valve, for the piston valve is made round with passages formed in it to give the required openings to fall the action of the the correct times and for the

correct intervals. The ordinary "D" valve is exposed to the full pressure of the steam, and has to work with this full pressure upon it. It is, however, sometimes balanced, or made to press against faces on both feles to avoid this. The piston valve has the pressure equally all round it and at both ends, so that it is self-neutralised, or balanced, and from this point of view is preferable to the "D" valve.

Yalve Face.—That part of a valve which comes in contact with the seating and which does the actual cutting off of the supply of fluid. Usually applied to "D" valves in steam englines. It virtually corresponds to the seating of popper valves.

Yalve Chamber.—The cavity in which the valve is placed; usually applied to internal combustion englines.

engines.

Yalve Chest.—The kind of box in which the valve of a steam engine works, and from whence it distributes the steam to the cylinder. Also called the

Yalve Lift.—A term applied to mushroom valves to indicate the maximum amount by which they are raised from their seating when at work. With round valves this lift multiplied by the circumference repre-

valves this lift multiplied by the circumference represents the maximum opening given by the valve.

Valve Motion.—This term is usually applied to slide valves for distributing steam to the cylinders. The most simple means of doing this is by a single eccentric and rod so placed on the crank shaft as to give the valve correct timing. Such an arrangement does not allow the engine to be reversed unless the eccentric sheaf (see Eccentric) is made so that its angular position on the crank can be altered, to eccentric sheaf (see **Eccentric**) is made so that its angular position on the crank can be altered, to enable it to be regulated into a position suitable for the engine when running in reverse direction. Such an arrangement is known as a "shifting eccentric." The ordinary reversing valve motion, commonly known as the "Stephenson link motion," is provided with two eccentrics and rods, the one affording full forward inotion, the other full reverse motion. These rods at their ends are connected to a quadrant shaped link, which is connected with the valve spindle in such a way that the link can be moved so as to brilly either one or other eccentric rod directly into line with the valve spindle, in which case that particular rod is exerting its full influence. Suppose the quadrant link is positioned so that the reverse eccentric rod is in line with the valve spindle; the engine is then in in line with the valve spindle; the engine is then in full reverse gear. Now if the link is raised so as to take the reverse rod more and more out of line with the valve spindle, and the forward eccentric rod mere and more into line with the valve spindle, the influence of tiffs reverse becomes less and less, and that of the forward goar more and more. When in full reverse steam was not being cut off in the cylinder until near the end of the stroke, but as the link is notched up, as it is called, and the reverse actuating rod left less and less in action; the cut off of steam takes place earlier, this permitting more expansive working of earlier, thus permitting more expansive working of the steam. When the link is moved, so that the valve spindle end is at a point on it midway between the spinale end is at a point on it midway between the two rods, the engine is said to be in mid-gear, and steam is the being cut off at the two productions of the stroke—in other words, the engine gets no steam at all.⁶ From midstroke as the gear is shifted towards full "forward" motion, the cut-off becomes later and later in the stroke until in full forward gear it is being cut off only when about three-quarters of the entire stroke has been completed. This will serve to explain strike has been completed. This will serve to explain the rather difficult problem of the ordinary link motion. The only other motion at all largely used is poy's motion, in which the valve is actuated by a series of links, moving a slipper block up and down in a steel guide. The valve spindle is connected to this slipper block and the guide is so shape, as to give the requisite motion, the reverse being obtained by swinging the guides round to an opposite angle. For instance, if in forward gear the bottom corner of the guide will be swing on its traumion so that the top corner comes about 45° behind the bottom corner. Walwe Red corresponds in steam practice to valve spindle.

Walve Seating.—The part with which the face of the valve is in working contact when shut. Walve Spindle.—The stem of the valve. Waporiser.—A device to reduce liquid to a vapour. In internal combustion engines, the vaporiser is usually used for the less volatile fuels, such as paraffin, in used for the less volatile fuels, such as paraffin, in which case it usually depends for its action on heat, often in conjunction with some device for mechanically splitting the fuel up into very small particles. In olified steam engines, it is also applied to that part of the burner which beats up the liquid fuel into vapour or gas before it emerges from the burner.

**Raylable** Expansion** – See Expansive**

Working. Voiturette A word imported from the French,

was a small car, generally a two-scater.

Yolk—The unit of electro-motive force, or electric pressure, as it may be called. It is the E.M.F. that will cause a current of one ampere to flow in a circuit

will cause a current of one ampere to how in a circuit having a resistance of one ohin.

Yolunester.—An instrument for measuring voltage.

Yolune Springs.—See Springs.

Yaleanising.—The process of vulcanising har revolutionised tyre repair. Raw nibber, which is very plastic and has little elasticity, could not be used along for tyres: it has to be mixed with other ingredients, for tyres: it has to be mixed with other ingredients, more especially sulphur, and subjected to great heat and pressure. The process of vulcanising for a repair consists of applying this plastic rubber and sulphur in correct proportions to the tyre, and subjecting it to suitable heat and pressure. Many of the convenient vulcanisers at present supplied can be carried on a

vulcansers at present supplied can be carried on a car.

Yulcanita.—An insulating material used in the electrical equipment of a car.

Washer.—A suitably shaped plece of material placed between the two faces of a joint. For the ordinary nut joint a washer is a flat metal ring placed between the nut and the part against which the nut spresses; it, to some extent, prevents the nut from working round. Locking washers, which entirely prevent this, are also made so as to hold the nut against be sides of its thread by their spring action. Sometimes, where great heat has to be encountered, and a gas-tight join has to be encountered, and a gas-tight join has to be encountered, and a gas-tight join has to be encountered, and a gas-tight join has to be encountered, and a gas-tight join has to be encountered, and a gas-tight join has to be encountered, and a gas-tight join has to be encountered, washer are frequently emploid to render the joint washers are frequently emploid to render the joint washers me made of fibre or nica for insulating reasons. For flanged joints, sheet copper or sheet asbestos may be used, the latter especially where heat has to be encountered.

Water Circulation.—See Circulation.

Water Jacket.—A chamber formed round an engine cylinder to contain the water for cooling the cylinder.

engine cylindes to contain the water for cooling the cylinder.

Wats.—The electrical unit of energy obtained by emultiplying the current by the pressure at which the current works—in other words, volts by amperes, it represents a certain amount of electrical energy, which means the capacity for doing work. In fact to work are equivalent, to a horse power, a water an expensive of heating two metals until fivey are in a plastic state, and then with the jeep of a flux, used to prevent the formation of oxide, hammering the two plastic parts together so that they old in and become a homogeneous mass.

nammering the two plastic parts together so that they join and become a homogeneous mass.

Wet Stearn.—See Saturated Stearn.

Wheel.—Wheels are of many orts. For private car work the wooden artillery wheel with metal hub, the wire spoke wheel, and the pressed steel wheel (similar in appearance to the artillery wheel are those mostly used. In the wire wheel, the weight of the hub is taken by the tension or pull on the wire spokes from

the upper half of the wheel rim; in the more solid spoked wheels it is taken by the lower spokes in compression. To facilitate tyre repair, wheels are now often made with rims that with the pneumatic tyres are quickly and easily defachable. For heavy utility motors wheels are made much heavier, usually of wood, though nowadays frequently of steel caxings, while for steam wegons and tractors they are often built up of strips of metal plate and T section iron secured to east-tron hub. As regards gear wheels, fly wheels, see under respective headings. Oak and ash are the woods usually employed for these heavy lorry wheels when wood is used, while hickory is generally adopted for the lighter artility wheels of the private car. There are signs, however, that the supply of this wood (which comes from America) is not what it was, and it is becoming increasingly difficult to get hickory of the best quality.

the best quality.

White Metal is Babbit or any kindred soft white

mental wed for liming bearings.
Wish Carburester.—A carburetter of the surface type in which petrol in a tank is drawn upwards by a capillary attraction so as to sturate a series of wicks, over which the air supplied to the engine is passed. In passing over these works the air takes up

wicks, over which the air supplied to the engine is passed. In passing over these wicks the air takes up the necessary amount of petrol vapour.

Wing Nut.—Same as Butterfly Nut. (See Nut.)
Wings.—A word sometimes applied to the sides of front wheel mudgards.

Wips Contact Maker.—A species of contact maker in which the contact is made by a brush or spring-held coinact coming spoothly into contact with a metal vector on the hunlarded circle of the contact maker. As such an arrangement allows for no sharp break of the spark, the break is obtained from a trembler, fitted on every coil using this system of contact making.
Wiper.—A brush, or spring contact bearing, on a

Wiper.—A brush, or spring contact bearing, on a wipe contact maker.
Worm Drive or Worm Gearing.—A modification, or elaboration, of helical gearing. In this the smaller gear wheel is represented by a shaft with one or more worms, or threads, cut on it, often at such an angle as practically to constitute a skew gear, the teeth or thread of which meshes with teeth on the larger gear. And here we find the real point of difference from ordinary skew gearing, for the circumference for the larger gear, or worm wheel, instead of difference from ordinary skew gearing, for the circum-ference of the larger gear, or worm wheel, instead of being flat as in skew gear, is made concave to shroud the worm pinion. Generally speaking, the best angle at which the thread of the worm should lie along the shaft is 45, but anywhere between 30° and 45° it can be rotated by the worm when running down hill with the engine shut off. At the present time worm gearing is being very extensively adopted for the final drive transmission between the present time worm gearing is being very extensively adopted for the final drivensmission between the present time worm gearing is being quieter than a bevel drive, though the latter is probably just slightly more efficient, at least when new.

Worm and Segment.—See Irrawersible Stearing.

Steering. Wrist Pin. -Another name for the gudgeon pin.

Wrought Iron.—Iron that can be forged. It is made from the harder varieties of cast iron puddled and worked up under the harmer. It is far less liable to unforeseen and sudden fracture than cast iron or

to unforeseen and sudden fracture than cast tron or cast steel.

Yoke.—Practically a clamp, the ends of which hold down the parts that have to be secured, while the pressure is usually applied by a nut working on a student or both passing through the centre of the yoke. The most familiar application of the yoke is seen in the arrangements to the both of the yoke is seen in the chamber caps to the cylinder castings, although it is not as frequently used as formerly.

PEÀRS DIGTIONARY OF DOMESTIG PETS.



BY THE EDITOR AND EXPERTS OF

The Bazaar, Exchange, and Mart. 975

# Pears' Dictionary of Domestic Pets .

### INTRODUCTION.

## By the Editor and Experts of "THE BAZAAR, EXCHANGE AND MART."

Comprehended under the popular designation of "pets" is a fairly large number of animals differing markedly in structure, habits, and as regards their general environment, and not a little in respect of their popularity. It is attempted here to consider in as concise and practical a manner as possible the various units composing this divergent group, and to give sufficient information concerning each one discussed as will enable anyone not merely to identify any individual, but also to keep it in health or to treat it when afflicted with at any rate the minor ailments to which it is subject.

Some of the principal families are made up of so many individuals, and the details connected with their successful management are so numerous, that only the very briefest survey is possible in the space at our disposal. Especially is this the case with the dogs and the cats, possions in the space at our disposal. Especially is this the case with the dogs and the cats, while eyen more restricted is the information on rabbits, cavies (guinea-pigs), mice, and rats, all of which are popular with pet-keepers. Then, too, there are others, which, if less popular-monkeys, dormice, and squirrels, for example—need great care and a special environment if their lives are to be pleasant and if they are to afford real enjoyment to those responsible for their well-being.

Though the enumeration foreshadowed may be said to embrace the most popular of all the animals kept purely as "pets," so elastic is the term that it is practically impossible to define its extent. Thus it is necessary so to widen the field of our survey as to take in the strictly utilitarian goat, the smaller reptiles like the lizards, and the tortoises; these last being still

more briefly touched upon.

We commence with the dogs, and continue with the other subjects in the order of their enumeration. Still, even with the dogs we do not treat of all the varieties met with in domesticity, but rather with a selection of those which in our opinion are best entiled to be regarded as "pets," for it is possible, we know, to make a pet of any dog whether giant or pigmy. Breeds like Foxhounds, Pointers, Setters, Retrievers, the majority of the Spaniels, and a few other varieties are not included. The whole of the Terrier group (notwithstanding the fact that they are mainly classed as sporting dogs) are dealtraith, except the Bull Terrier, Bedlington Terrier, and the Sealyham, whose mission—at any rate for the present—is strictly confined to the realms of sport.

#### VARIETIES OF DOGS.

Aberdeen Terrier.—An erroneous name of a applied to untypical representatives of the Scottish Terrier. The origin of the prefix cannot be traced, but there is not, nor has there ever been, a terrier peculiar to Aberdeen city. See Scottish Serrier.—Airedale Terrier.—With the exception of the Buil Terrier this is the largest of the group. Though this dog is too big for the work of a terrier proper, it makes a splendid guard, companion, and defender of person or property. Game it certainly is, but its disposition is of the best, and the Terrier is readily controlled; while it is hardy to a degree and one of the best water-dogs. In colour it is an admixture of black or dark grizzle and tan, with a hard, wiry, straight and close-lying coat. A peculiarity of the

breed is that puppies when born are more like Black and Tan Terriers. An Airedale Terrier weighs 40lb. to 45 lb., blitches being slightly lighter than dogs. The tail is docked about one-half.

Black and Tan Tarrier.—A Terrier at one time fairly numerous, but now correspondingly scarce. It is a sleek-coated animal, having excellent claims to be considered a first-rate house-dog and ratter. Not so hardy as some terrier breeds, it is best kept indoors. For town life it is well suited as its coat does not readily show dirt, and it will thrive with a minimum of exercise if judiciously fed. For the coat to possess the glossy appearance liked, regular grooming must be given, and hand-rubbling, using just a suspicion of oil in the palm, should complete the operation. A nicely proportioned dog, weighing from 16 lb. to 20lb, and sometimes described as the Manchester Terrier.

Black and Tan Terrier (Ministure).—A pocket edition of the Black and Tan Terrier, and the smaller it is the better. There is, however, a difficulty in producing typical specimens. Many are round instead of flat skulled, and the ears often are round instead of flat skulled, and the ears often are carried "procket." Another difficulty is a deficiency of coat in this smart little dog. When this is the case a little lanolur subbed in after the daily brush has a beneficial effect. Smart, active, and small, this terrier is a favourite in flat-land. Occasionally it "sports" is a favourite in flat-land. Occasionally it "sports" is a favourite in flat-land. Occasionally it "sports" in colour, liver and tans and blue and tans being found. Bobtail Bhespdog.—By nature a worker this interesque and essentially English dog has gradually become a fashionable beauty, kept largely as a pet and companion dog. In intelligence the variety is second to none, as it is in docity and strong attachment to its owner. On account of its long, shaggy jacket, however, it is not a general favourite with housewives, though if a long-landled brush be kept wherewith to wash it down on wet days, and care is afterwards taken to dry it thoroughly before allowing it indoors, little trouble should be given. We have kept the dogs for many years and they have always proved splendid house-guards and devoted companions. Despite its bear-like gat (when viewed behind) and general appearance it is a most active dog, galloping very fast. Any shade of groy, gruzzle, blue, or blue-marked with bear-like gait (when viewed behind) and general appearance it is a most active dog, galloping very fast. Any shade of grey, grazzle, blue, or blue-marked with or without markings are liked; while in the greyish or blue dogs a pearl, wall, or china eye is a characteristic. The Bobtail is a strongly made muscular dog, standing 22 inches and upwards, with a profive shaggy outer cost and a waterproof unglercoat. Though popularly believed to be born tailless, in nine cases out of ten the tail is removed during the first week of puppyhood—an operation that milliates somewhat against the more axtended keeping of the dog.

an operation that militates somewhat against the more actended keeping of the dog.

Borzoi or Russian Wolfnound.—This hound is the most beautiful and symmetrical of the Great Greyhound group and a very popular dog with both men and women. Though big it is not bulky, and like the Scottish Deerhound and the Irish Wolfhound it will curl up into a comparatively small space indoors, an obvious advantage. As its name unmistakably proclaims, this hound in its native country is used against the wolf, and a brace will render an excellent account of themselves against that formidable animal Alike as a companion and personal guard the Borzoi may be recommended, while it is no mean watchdog. though it cannot be classed as a noisy variety. Bosting an excellent temperament and a dignified demeanous generally, the dog may be taken out without fear of ill consequences once it has been trained. With this breed as with the Deerhound and the Irish Wolfnound breed as with the Deerhound and the Irish Wolfnound its best to start with pupples six months old or even rather more, as when young nearly all the Greyhounds seem to be somewhat susceptible to distemper and other ills, but they soon outgrow this if properly fed and housed Daup is the great enemy; cold they can endure with impunity. Being light-coloured this hound needs to be washed occasionally and to be brushed and combed daily, the tail and feathering requiring extra attention. In height a nale Borzoi should measure from 29 in. upwards, and a female two inches less. The skull should be flat and narrow and the head generally so fine that the shape and direction inches less. The skull should be flat and narrow and the head generally so fine that the shape and direction of the bones and principal velus are clearly visible; while viewed in profile it should appear as if Roman-cosed. Generally the dog is built on Greyhound lines. White is the prevailing colour, with or without fawn, lemon, grey, brindle, blue or black markings. Occasionally self-colours are met swith. Light-eyed, short-headed, heavy-eared and heavy-shouldered specimens are to be avoided; as are also those having eyes wide apart, or that are barrel-ribbed or cowhocked. On no account should this variety be chained to a kennel, or a missibapen, broken-spirited animal will undoubtedly result. Care too must be taken in regard to any punishment inflicted on a puppy, as no breed of dog is more sensitive or more readily spouled by harsh treatment.

Bouledogue Français.— (See Foreign Dogs.)
Buildog.—At one time employed in the sport of
buil-baiting, the bullog is now kept as a fashionable
canine beauty. It is undoubtedly an ugly dog. but its

disposition altogether belies its appearance. The head is very massive and the face extremely short, with a broad blunt muzzle inclined upwards. Altogether it combines strength and determination with activity, In general the Bulldog may be regarded as well-mannered, and though it makes a good personal guard, in the house its value is not great. Contrary to the opinion usually entertained in regard to the dog it must be classed as delicate. About 50 lb, is the weight of the best specimens, and the hindquarters are always lighter than the forequarters, with a distinct such of

of the best specimens, and the hindquarters are always igither than the forequarters, with a distinct arch, of the back. The cost is smooth and fine in texture, and variable as to colour. Whole colours and smuts are most esteemed—brindles, red, white with their varieties, as whole fawns, fallows, etc., while the pied and mixed colours stand next in order of inerit.

Bulldog (Miniature).—Even more in favour as a pet is the mulature edition of the larger animal described above. Formerly this dog was not bred very true to type, it having been tainted with a cross of the French Bulldog; but this has now been altered, and a typical miniature Bulldog is a small edition of its larger relative. This dog should go to scale at so lb... of less. at less

Cairn Terrier.—(See Skye Terrier.) Chow Chow.—This, the edible dog of the East, Chow Chow.—This, the clible dog of the East, enjoys, and deservedly, a great reputation as a pet. Though decidedly "stand-ofish" to strangers, to its master or mistress it is a most devoted companion, and has a wide and increasing following; while as a house dog it has few superiors. It is one of the prick-eared varieties, and has a fist and broad skull, black tongue and mouth-roof, short and straight back, and a tancarried well over the back. There are two kinds of cont-rough and smooth. The former is preferable, and is dense, straight, and rather coarse in texture, with a soft and woolly undercoat. In the neck vicinity it is prolonged into a frill. For this reason a collar is undesirable, but if one is necessary it should be of the round or rein type. Black and red are the most favoured colours, though yellow, blue, and white specimens are found. The weight of a Chow Chow is from 40 bb. to 50 lb.

specimens are found. The weight of a Chow Chow is from 40 h. to 50 h.

Clydesdale Terrier.—A breed of many names, it having been known as Sikice, Pansley, and Clasgoer Terrier, as well as the one above given. To judge by a near relative of the Skye Terner. It is, however, smaller, silkier as to jacket, higher on the leg, more compact as to body, and more heavily feathered or ear. Kept under natural conditions the coat of that dog should not develop to such an extent as to make the animal a nuisance when kept as a house pet; while its constitution should be improved. The coat in colour is bright steel blue and golden tan, the latter being restricted to the head, legs, and set; wille the being restricted to the head legs, and set; while the tail is deep blue or black. The Clydesdale Terrier is an active and aler; dog, and is deserving of extended

an active and alert dog, any is deserving of extended partonage.

Collis—So far as the general public is concerned, there are two distinct varieties—the rough and the smooth: but fanciers acknowledge a third. The fanciers acknowledge a third the property of the fanciers acknowledge a third the fanciers acknowledge a third that the fanciers acknowledge a third that the possess in make the state of compenious, now dogs, and protector. It is frequently asserted that Colles are treacherous, but thus is a libel on the bread generally. The rough is more popular than the shooth, but its cost requires far more labour to keep it in nice trim. No collars should be worn by Colles as this tends to spoil the coat, especially the full of the rough variety. Sable and white are the colours most liked, but the blue mark (mariled) is rapidly making headway. A Colle should scale from as in.

scale from 451b. to 651b., and should measure at shoulder 22 in. to 24 in.

Dachehund.....In its native country this dog, as its but a fashionable pet with a very large circle of admirers despite Punck' description. It is a long, low dog with a long and narrow skull showing a decided "peak," short and strong forelegs and higher and lighter-boned hindlegs, a deep chest with prominent breast-boae, and a muscular, arched loin. Colour is of minor import,

but black and tan liver, liver and tan, red, and dappled are preferred. A typical Dachshund stands from 7 in tog in at shoulder, and weighs from rib. to a till, and there are both rough and smooth laired specimens. As house dogs and pets the variety may be recommended, being alike alert and intelligent to a degree. Dandie Dinmont Terrier.—Pror to the issue of Sir Walter Scott's Gay Mannerng, this long-bodied, low-lerged terrier was a dog valued purely for its

of six Walter Scott's Guy Mannerung, this long-bodied, low-legged terrier was a dog valued purely for its "warmint" qualities. Since shows have popularised it a change has come over the scene, and Dandie has, according to sportsmen, degenerated into a pet. For all that it is a distinctive Terrier with its doned fore-head and top-knotted skull, full, round, wide apart eyes, muscular neck, arched loin, short ensy-feeling coat, and short gally carned tail. Pepper and mustard are the two colours by which the breed is differentiated, and these vary considerably. About 18 lb. is the average weight of the best Dandie Dimmont Tertiers; while at shoulder they should measure from 8 m. tour in. They are hardy, plucky, but not self-willed does, most They are hardy, plucky, but not self-willed dogs, most capable guards, and splendid companions. Puppies when whelped differ materially in colour from adults. Peppers are black at birth, or perhaps black with fan legs, while mustards are tan colour with much black down the back.

Fereign Dogs.—Of the breeds falling under the designation of pet dogs, and classed by the Kennel Club as foreign, the chief are the Bouledogue Français and the Samoyede. The former is an active, intelligent dog, cobby of build, muscular, and heavy as to bone. The skull is massive with a square and massive foreface, large eyes, deep stop (indentation between the eyes), small neat bat (upright) ears, and short, broad, upturned muzzle. Though on distinct Buildog lines the warlety has not the exaggerated front of its English relative, and is altogether more active and terrier like. Its weight is in the vicinity of azib. Black and black and tan are not admissible as colours for this variety. The Samovede is a breed that has come rapidly to Foreign Dogs.-Of the breeds falling under the

and tan are not admissible as colours for this variety. The Samoyede is a breed that has come rapidly to the front. It is one of the Northern varieties, and a relative, therefore, of the Pomerunian, the Eikhound, and the Eskimo, and like them, used in its native country as a utiliarian animal. In general appearance it is Pomeranian-like, and possesses the fory type of head common to that group, has a short back, well-curled tall, thick coat that stands well out, and a nice, fill. As is the case with thus group generally, the Samoyede is hardy, very alert, and intelligent, while its temperament is of the best. White is the colour most in favour, and the dog measures about 20 in, to ar in, at shoulder.

er in. at shoulder.

Fox Tarrier.—These (for there are two varieties smooth and wire-haired) are the most popular of all —smooth and wire-haired) are the most popular of all domestic dogs, and are too well known in regard to general conformation to need more than a brief description. Formerly they were the "Kennel Terriers" of the sportsman, but within the last half century they have become fashionable companion, pet, and show animals. There is nothing to choose between the two varieties, whose only points of differentiation are in the coat. The rough dog, however, requires a little more grooming to keep him in nice condition than the smooth. Contrary to the general belief, colour is of little importance so long as white predominates, and reither tance so long as white predominates, and reither brindle, red, nor liver markings should obtain. Fox Terriers are handy, smart little dogs, as much at home in the water as on land, and among the best of all house guards. Both varieties require to be doclard, rather more than half the tail being allowed to

Great Dane.—Some may cavil at this breed being included as a pet dog, but as a matter of fact quite a number of ladies keep the noble Great Dane in this number of ladies keep the noble Great Dane in this capacity and also as a companion and guard. It may be salt to combine immensestrength with great activity (we have seen one easily clear a five-barred gate) and a conformation that could scarcely be excelled. As a rule a pure-bred specimen that has been properly brought up is a dog most amenable to discipline and with a sweet temper. Conscious of his immense strength, unless unduly provoked, he seldom uses it, and for these reasons may be trusted in any company. Again, his sleek coat commends him as an indoor dog.

big though he be. Damp and draught are the great enemies to be avoided when keeping this lovely hound, which may be taught indoor manners as easily as can a toy animal. In appearance the Great Dane should be intermediate as it were between the Mastin and the Greyhound, possessing neither the massive proportions of the one nor the slenderness of the other. The head and neck should always be carried high. Thirty inches is the ninimum height of a dog and se inches that of a butch; while the minimum weight of the former should be used in the former should be used by the colours most admired. As in the case of the Borzol, Decribound, and Irish Wollhound, the Great Dane must never be chained.

must never be chained.

Griffon Bruxellois.—A Belgian toy dog that has Griffon Bruxelloia.—A Belgian toy dog that has gained many friends in this country. It is probably a compound of the Affenpinscher, Irish Terrier, Yorkshire Ferner, and Ruby Spaniel, but breeds true to type, and there are both roughs and smooths, the former being preferred. The Belgian dogs are cropped and docked, but the former is not allowed here. For a small dog this variety has a large head, rounded and covered with coarse hair, the lips being addend with black and carrying a moustacle, the eves

nere. For a small dog this variety has a large head, rounded and covered with coarse hair, the lips being edged with black and carrying a moustacle, the eye large, black, or nearly so, and having long eye-lashes; the ch's is prominent and has a beard. These dogs, which carry a red, harsh, wity coat, weigh from a pound or two up to so ib. They are engaging pets, very alert and active, but need to be kept indoors.

Irlah Tarriers.— Another descreedly popular member of the terrier group and one that on account of its hardiness, gameness, and fine house-dog qualities has a very large circle of admirers. It makes a first-class town dog, its wheaten-red coat not showing signs of soiling. From 2b to 2b, bit the average weight of the best specimens. No special attention is needed to keep this dog in good condition. Occasionally an otherwise good dog shows a faint trace of whito on chest. For a pet this of course does not detract from its value, though in the show dog it would. In outline the Irish Terrier is a graceful-looking not to say racy animal, and it should not be modelled ou Fox Terrier lines.

Irlah Wolfhound.—Though in reality a breed of Irlah Wolfhound.—Though in reality a breed of

Irish Wolfhound.-Though in reality a breed of modern manufacture that we owe largely to the work of the late Captain Graham, it is one which breeds very of the late Captain Granam, it is one which preceds very true to type. The constituents used in its making were no violute Great Dane, Deerhound and Borzoi, with all that remained of the original Irish Wolf hound. The hound as we know it to-d2y is a monument to the skill of the breeder after over half a century of hard work. Endowed with great strength and activity, the Irish Wolf hound makes a splendld defender, while its suncable and quiet numer are provertisal. To the Irish Wolfhound makes a splendld defender, while its amcable and quiet nanner are proverbial. To the average person it does not attract the eye in the same manner as the Borzoi or oven the Scottlish Deerhound does, but for all that it is a variety that has quite as many good qualities as either, though it has never attained a great measure of popularity. 'A typical dog should measure at least 31 inches at shoulder and go lb. In general appearance this hound is heavier in build than the Deerhound, but not so heavy as the Great Dane—in fact it is strongly though symmetrically built. The colours are those met with in the Deerhound. The coat should be harsh on body, legs and head, and over the eyes and under the jaw very wiry head, and over the eyes and under the jaw very wiry

and long.

Italian Greyhound.—One of the daintiest and most refined of all pet dogs. It may be described as a pocket edition of the Whippet, with a high-stepping free action, fine and supple skin, and a coat that shines like satin. The most desirable-sized specimens are those from 3 b. to 7 b. in weight, self-coloured fawn being the favourite colour. Brindled and pied hounds are not considered desirable. This little hound is too delicate to be allowed outside except in favourable weather, and it is usual to "sheet" it when giving it a run outside in winter and spring. To have this dog in nice trim it needs to be carefully fed and grooned. My lady's boudoir seems more suited to this aristocatel little hound than any other part of the house.

Japanese Epanial.—An Eastern toy dog of

preat beauty, the smallest specimens being called "sleeve dogst" from the fact that they are readily carried in the capacious sleeves of the Chinese. At one time it was regarded in this country as a rarity, but of recent years it has been bred in large-mumbers. Though still retaining a measure of popularity the breed has been to a certain extent deposed from its high place by the introduction of its Pekinese relative. Fanciers set most store on the very small Japanest, and it is this craze which has largely proved the breed's undoing. Again, it is a variety which seems more than ordinarily susceptible to distemper. As pets the large sized animals are best suited, as they may be readily bred from with the very small ones their insternal instinct. Except that it is usually black and white and has a tall carried over the back, the lapanese in many features resembles the historic Blenheim Spaniel, though it differs from that dog in laving the eyes set farther apart, in the face being broader, and in the skull being less rounded. Like the Italian Greyhound it has a distinctive high foot action. The weight may be anything from 3 lb. to 1b., and although black and white is the favourite colour, red and white is admissible. Whatever the body, cheeks, and ears.

Wastaes—By some this is regarded as the oldest

Color it should be colored to the cheeks, and ears.

Maltens.—By some this is regarded as the oldest of all dogs. At one time it was classed as a terrier, but this of recent years has been altered simply to the color color of the color color. but this of recent years has been altered simply to Maltese. Handsome in appearance, with a long cost that in whiteness rivals drigen snow, and an engaging manner, it is little wonder that its admirers are many. Beautiful, however, as it undoubtedly is when kept in nice coat, it is far too delicate for most people, and is in reality a glass-case variety like the very long coated Oyrkshire Terriers. The trouble of keeping the dogs in the pink of coat condition is too great for most people. Frequent washing, brushing, and occasional combing are necessary to the dog's well-being, and coadsidered injurious to the coat; beaten-up egg soap is considered injurious to the coat; beaten-up egg

soap is considered injurious to the coat; beaten-up egg is far better for the purpose. These degs weigh from 4 lb. to 9 lb., and the coat is parted down the centre from the eyes to the root of the tail.

Nawfoundland.—No breed except perhaps the St. Bernard is so well known as the Newfoundland which Landser has limmortaised. It is, however, the white and black dog that the great animal painter selected for his famous picture, and this in respect of the period of the more popular black, the period of the more popular black, that here improved considerable number of followers. In its native home it was and is a worker; here it is merely used as a companion and guard. A characteristic metal the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of In its native home it was and is a worker; here it is merely used as a companion and guard. A characteristic of the breed is that it makes one, if not the, finest of all water-dogs, and it is a pity that this characteristic is not oftener developed. The Newfoundland is one of the breeds that in the past was given a bad fame, being regarded as bad tempered. This, however, was an unjust sapersion and usually those specimens responsible for the circulation of an unfounded charge were mongreis. The general lines on which the dog is built are very well known; broad, massive head and flat skull, broad back, well-riibed doy and muscular hindquarters, and deep broad chest. In height 27 inches would be an average for a dog and 51 inches for a bitch; while in weight from 140 lb. to 150 lb for dogs, and 110 lb. to 120 lb. for bitches, would represent about the men. Being a heavy dog, represent about the mean. Beling a heavy dor, walking exercise only should be given. More than two years are taken by this dog to build up its huge framework, and a good deal of care has to be esercised if the forelegs are to be suscular, well-boned and quite

straight.

Palsiey Terrier. (See Clydesdale Terrier.)

Pekinese.—Another Eastern variety, which is its name proclaims have its origin at Pekin, though not restricted therets. With the Pomeranian it shares the honour of being the most popular toy dog known in this country. From glb to 10 lb, is the most desarable weight for one of these dogs, which are heavy in front and full away lion-like behind. Unlike the English Toy Spaniels, the Pekinese Spaniel has a flat skull,

and the tail is carried curied over the loina. The dog has a distinctly high action when walking; short, heavy, bowed fore-legs and lighter hind ones, heart, and the thighs, tiegs, tail, and toes are profusely covered with feathering, while there is a frill round the neck extending beyond the shoulder blades. Colour is unimportant. This is quite one of the most expensive of all dogs.

Pormaraniam—A foxy-haired, prick-eared, thick-costed dog, which of recent years has been dwarfed, the Toy specumens being diose most in demand. The colour is the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c

weighs from 33lb. to 17lb. As house-dogs pugs do not excel.

86. Bernard.—As in the exs of the Newfoundland there are two varieties, but these are differentiated not by colour but by the nature of the coat—Rough and Smooth. Contrary to the generally entertained opinion the latter is the true mospitain-dog though the former is the more admired. About the breed, generally, psweer, a halo of romance centres, and this adds to the interest. To Albert Smith, the saveller-lecturer, we are indebted for the introduction here of the breed which, though like most others had its ups and downs, has always enjoyed a large measure of popularity. On several occasions \$\frac{1}{2}\$. on the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasions \$\frac{1}{2}\$. On the several occasion \$\frac{1}{2}\$. On the several occasion \$\frac{1}{2}\$. On the several occasion \$\frac{1}{2}\$. On the several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. Such as the several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One several occasion \$\frac{1}{2}\$. One sev

feathering on tail and thighs should be slighter and the feathering on tail and thights should be slighter and the coar generally hound-like. The markings of a typical dogsdd considerably to its beauty. They are—white nuzzie, white blaze up face, white collar round neck, white chest, white fore-legs, feet and tail-tip, with black shadings on face and ears.

Schipperke.—A foxy-headed, prick-eared dog, fromcBeigium: tailless (but not naturally so); coat black. It is quite the smartest of all housedogs, though a trife noisy by reason of its harsh "yap, yap." A distinctive feature is (or should be) the rounded evines-nite runn. Its weight is about 12 lb.

guinea-pig rump. Its weight is about 12 lb.

Scottish Deerhound,—As is the case with the
Borzoi this hound makes a very desirable companion and guard, while its temperament is of the best and its and guard, while its temperament is of the best and its personal attachment remarkable. In reality the Scottish Deerhound is a Greyhound with a wiry coat, some three or four inches in length, but the bodysis larger than that of its smooth relative. Dogs measure at shoulder so inches to 3g inches and butches 2y inches to 3g inches and butches 2y inches to 3g inches and the latter from 65 lb. to 60 lb. Dark blue-grey, dark and light grey and brindle are the colours most liked. Contrary, too, to what usually obtains, bitches of this variety are frequently of finer quality than dogs.

Boottish Terrier are,—A powerfully built, sharp and active Terrier of figm 17 lb. to 20 lb, weight, with a nather short, hard, why lacket of steel-grey, iron-grey black-brindle, grey-brindle, black, sandy, or wheaten colour, a fairly long, slightly domed head, carrying small prick ears, a flat-sided, moderately long body, and a tail disposed somewhat gally. Though slightly strong and stand-offish in nuamer, this Terrier is nevertheless most affectionate and extremely intelligent, while as a housedgy he is one of the best. Soundly personal attachment remarkable. In reality the Scottish

sing and stand-offish in manner, this Terrier is nevertheless most affectionate and extremely intelligent, while as a housedog he is one of the best. Sound in the planest of fare, but he is especially conditioned he will thrive whether kept indoors for outside, and on the planest of fare, but he is especially fond of plenty of exercise.

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Welsh Terrier.—A comparatively little-known member of the Terrier group, but one that makes a first-class pet and companion dog, while it is slert in the house, active outside, and very plucky. Though built some that on Wire-haired Fox Terrier lines the great width of skull between the ears, the deeper jaw, and the altogether stronger head, differentiates the

great width of skull between the ears, the deeper law, and the altogether stronger head, differentiates the Welsh Terrier from the more popular Fox Terrier named. In weight it is about 20 lb, and its shoulter height z inches in the case of dogs, bitches being correspondingly smaller and lighter. The coataback-and-an or black grizzle and tan—is hard, close and wiry, and does not show signs of solling even in smoky towns, while the dog is hardy to a degree.

West Highland White Terrier—in reality life is a working Terrier, but of late years it has been much popularised. It is the genuine working Skye Terrier, but white and short-coated and with a different muzzle om the Scottish Terrier proper. Still, since it has been popularised it is gradually becoming merged as regards type with the last-named dogs.

Yorkshive Terrier—To keep this dog for show it really needs a giass case; but as a pet it may be allowed to run about the house. In that case the long coat, which is the glory of the show animal, must not be looked for, nor do we think it is desirable. The variety to one of the smallest of all dogs (we have seen alb. dogs exhibited, and have owned them a trifle under this weight), but the minute alb. to 5 lb. specimens are delicate; one 7 lb. in weight is far better. The body-coat is steely-blue, glossy and silk-like in terture, but that on the leyed and chest is a rich, bright tan. A peculiarity of the breed is that the pupples are born black and tan.

#### DOG MANAGEMENT.

Accommodation.—Dogs that are kept as pets may be allowed the run of the house, and even if they may be allowed the run of the house, and even if they are placed in a kennel for a portion of the day, should always come indoors at might, where they are of three times the service they would be in a kennel. They should be provided with a definite sleeping place which they will quickly recognise, but this should never be on the ground level, where draughts are most prevalent. Baskets, boxes, and indoor kennels are to be had in variety, and these may readily be raised out of the way of draughts. Even a chair on which a special enshino is places will make a sung and comfortable sleeping place. By way of "bedding" a rug, of material varying with the weather and the breed, will be quite sufficient for even the more delicate breeds. Still, if bedding as ordinarily understood be prepared. Elastene is hygienic, warm, and does not flatten like lay. In all long-coated breeds, however, a cushion, which must be kept clean and well beaten, is better than bedding. The covering should, be of some cheap and washable faaterial. So well beaten, is better than bedding. The covering should be of some cheap and washable material. So far as the hardier terriers are concerned, these require little by way of hedding. The toy breeds when not kept in a special kennel should have a lined basket or box with a special scholar them to lie upon. Still, what-box with a cushion for them to lie upon. Still, what-ever sleeping place and material are used they should be exposed to sun and air in the daytime, and it is especially desirable periodically to treat them to an insecticide and to keep them free from dust, in which latter flea-larvæ thrive.

Appliances.—For the most part these will consist of brushes and combs, sensors, nail cutters, collars, chains, leads, and food and milk vessels. These latter must be kept scrupulously clean and wholesome while brushes should be cleaned and disinfected

periodically.

Breeding.-Where bitches are kept-and in many sreeding.—Where Ditches are kept—and in many respects they are superior to dogs—they should always be allowed to breed. Once in two years is often enough. If they are prohibited from breeding they usually become very fat and are liable to lacteal tumours. It is not desirable to breed at the first "heat," which may occur at any time after about the seventh month, and spring is preferable to any other season. Twice a year bitches are available, there being an interval of six months between the periods of castrum or fleat. The signs of this functional disturbance are a swelling of the parts accompanied by a reddish discharge. The time to mate the jet is just as this ceases. The "heat" lasts from a fortnight to these weeks and August the six from a fortnight to three weeks, and during that time the bitch must be three weeks, and during that time the bitch must be watched, or she will leave the bouse and seek a mate for herself. The period of gestation is sixty-three days, more or less. For the greater part of the time no change in a bitch's daily life need be made—say for the first four or five weeks. After that care must be exercised that she is not over excited or allowed to extent herself too much, and especially to jump. A fortnight before her time she should have her whelping raless annointed and be allowed to go there each day formight before her time she should have her whelping place appointed, and be allowed to go there each day until near her time. This will be heralded by a change in her behaviour, by a constant desire to go outside, and a general restlessness. Except with bigheaded breeds like Buildogs, healthy bitches require ho help as a rule, though often small dogs when whelping like to have their mistresses by them. The event over, no attempt must be made to count or even to look at the suppies. A httle lukewarm arrowroot should be given and she should not be disturbed for going out until the next day, when she should be allowed out to relieve herself, and any souled bedding should be removed. For three days soft food only should be given the nursing mother, after which a dietary on more generous lines than ordinarily given should be provided.

Docking, and Removal of Dew-Claws.— These are two of the miner operations that even a pet dog breeder is called upon to perform unless he is prepared to seek the services of a veterinary surgeon. Quite a large number of the breeds enumerated are docked—Irish, Fox, Welsh, Airedale, and Yorkshue Terriers, English Toy Spaniels, Schipperkes, and Poodles. The operation is best performed during the

Terriers, English Toy Spaniels, Schipperkes, and Poodles. The operation is best performed during the first week of a puppy's life, it then inflicts a minimum of pain on the individuals on which it is practised. Having pushed back the skin and hair, the required length of tail may be removed with a pair of nupers or else with a sharp knife. In the case of the Schipperke only the veriest stump is allowed to remain, but in the other breeds, not quite half is taken off the terriers, and a little more than half off the Toy Spaniels, etc. The removal of the dew-claws from the hind legs is a very necessary operation as such, af left, often cause the dog considerable pain should they get lacerated; their removal also gives him a more finished appearance about the leg. They may be removed about the same time as the tail is docked, using a pair of special scissors (obtainable from dealers in fanciers' appliances) and severing them in an upward direction.

Feeding—An adult dog in health requires but two meals a day—a very light one of hard, dry hiscuits in the morning, and a more substantial one late in the afternoon. If fed very late the dog will be asleep when most its services are needed. The dietary should be varied—cooked lean meat, houndmeat, well boiled oatmeal or rice, any vegetables from the table but not too many potatoes, cooked fish freed from bones, and biscuit either broken up and given dry or covered with gravy, etc., and allowed to cool. The meals must be at regular intervals, and the dog from bones, and biscuit either broken up and given dry or covered with gravy, etc., and allowed to coop the meals must be at regular intervals, and the dog given as much as he can comfortably eat. There must be no long fasts and no great feasts. After that the food vessel should be taken away, cleansed, and put saide until the next meal-time b due. The changes on the food should be rung as often as possible. Very occasionally, if 2 dog appears out of sorts, a little raw lean meat finely cut up will work wonders. Shy feeders and greedy ones need alike to be watched at feeding times. Large bones should always be provided after a meal, but not in place of one. Fish, game, poultry, and rabbit bones should never be fed to dogs. Puppies require to be fed on the "little and often"

never be red to dogs.

Puppies require to be fed on the "little and often" principle. At the age of three weeks they may be taught to lap soft food from the mother's dish. Weaning time (seven weeks), however, is the nost critical period in their lives, as the change from the mother's milk to that of the cow (far less nutritious) which is the general substitute, causes them to fall

away considerably. The best foods are Mait Milk or Lactol; while Benger's and Ridge's Foods with a little Plasmon are also excellent. Five or six media a day are none too many for the weaned pup for the next two or three months. After the fifth month they may be reduced by two, as more sustaining food will gradually be given, until at the tenth only two meals will be necessary. Vegetables are not good for very young pupples, as they have a tendency to promote lattilency.

Exercise.—All dogs require exercise to keep them in health, the amount varying with breeds and even individuals thereof. With delicate toys this is often difficult to provide on account of weather conditions. In such cases then the little animals must be induced to run after a ball inside. Pugs and Bulldogs like slow walking exercise; the hardier terriors something more arduous, and two or three hours daily are not too many for a healthy adult. Exercise must never be given directly after a meal or in the heat of the day; nor must a dog be allowed to enter the water for a swim just after feeding. To allow any of the breeds enumerated to run after a cycle, trap, or motor, would be cruelty refined.

be cruelty refined.

Grooming.—Regular grooming is as important as regular food; it keeps the sking and coat in nice condition and tends to prevent feas and lice from affecting a lodgment. Brushing is better than combing for most breeds, and special brushes are sold for special breeds, Grooming should be performed before feeding. Sleek-coated breeds like Bulldogs, Black and Tan Terriers, etc., are best finished off with a chamos leather and a good hand rubbing.

Training.—Pet dogs stand as much in need of training as the shortime doe used with the gun, though

Training.—Pet dogs stand as much in need of training as the sporting dog used with the gun, though it is necessarily of a different kind. The first lesson must be obedience to name or whistle. The lessons must never be too prolonged or the puppy will weary. The fourth mouth wil be early enough to commence. To collar and chain the animal must also be accustomed. Naturally he will resist both. If, however, they are put on when there is a prospect of a run out or a roup, and the chain be allowed to drag. See pupil will soon forget that they are restrictive agents. Indoor manners must be early inculcated. Every time the pupy offends he should have the solide place pointed out and be put outside in disgrace. On no account thrash him or the fault will be intensified account thrash him or the fault will be intensifiednot cured. Having explated his offence let him again return indoors and do not scold him unless he again not circit. Having explated his oftence let finin again offends, when the process of ejection may be repeated. Outdoor manners will consist of thorough obedience to call or whistle, to come to heel when told, and to respect domestic and other stock. This last may be brought about by taking the puppy where cattle, horse, sheep, and poultry are. At first he will be on a lead or chain, but later this may be dispensed with. Any attempt to 9-reak away must be checked by warning voice, but sewerer measures must not be resorted to until every other means have failed. With some dogs it is quite sufficient to put them on the lead at the first sign of breaking away and allowing them to cover the rebinander of the jettiney restricted and in disgrace. Puppes should never be fed from the table or allowed to take anything from strangers, otherwise they grow up intolerable missances. Again they must never be allowed to jump up, say, when an owner meets a friend, or to bark at horses, cattle, or other stock. Any attempt to do so must be nipped in the bud, or a well-mannered adult will never result.

#### COMMON DISEASES AND PARASITES.

The diseases and parasites affecting dogs are exceedingly nucleous—so numerous that it deal with all would require a volume. Allithat can be dealt with, and these very briefly, are such as are commonly met with, and that will yield usually to home treatment.

Anamia.—Dogs that are badly fed and housed, or which suffer from worms, are often anæmic, and in that condition Blotch or Surfeit—characterised by the appearance of reddish patches and finally by soresesults. With ansemis the gums and mucous mem-

results. With ansemia the gums and mucous membranes are pale and bloodless, and the animal sometimes alls away considerably. Good nourishing food and shealthy environment are very beneficial. Occasionally a little fresh, raw meat, finely chopped, will do a lot of good. An excellent drug is reduced iron (taxteless), rg. to 9 gr., in the food twice a day.

Mostoh or Surfait.—Really a phase of Eczema is which there are inflamed patches and large sores. It may be due to poorness of blood (Anæmia) or to an overcharged system. A remedy in the former case has been suggested under Ansamia: while in the latter. a brisk purge is called for until the bowsis are moving freely. To the sores themselves boracic acid cintment should be applied.

Canker of the Ear.—An exceedingly common disease of the dog that manifests itself in two forms—internal and external. The internal form may be due to a Symbotic parasite that sets up great irritation, or to some injury or foreign substance in the inside ear with suppuration and an objectionable smell. The external form affects the ear-dap. The symptoms are a shaking of the head and a pawing at the ear, with, of course, a redness inside the ear or inflammation, and perhaps ulcers outside. For the external canker it is just necessary to deense the ear by means of Condy's Fluid fa light red solution) and afterwards to conduct the carely

a shaking of the head and a pawing at the ear, with, of course, a redness inside the ear or inflammation, and perhaps ulcers outside. For the external canker it is just necessary to deanse the ear by means of Condy's Fiuld (a light red solution), and afterwards to apply, when thoroughly dry, ointment of Balsam of Peru. In internal canker the ear should be gently syringed with spirits of wine and lukewarm water (one in twenty). After that well dry with successive pieces of cotton-wool rolled round the pointed end of a penholder, and finally blow through a quill or glass tube equal parts of finely-powdered iodoform and subnitrate of bismuth. Feed fightly and keep the bowels well moved.

Cough.—A symptom and not a disease proper; often due to derangement of the organs of respiration, but occasionally to worms and indigestion. Where in addition to the cough there is a rapid rise of temperature, quick, laboured breathing and expectoration, bronchitis may be suspected, and skilled aid should be sought. In the other two cases the cause must be removed, when the cough will cease.

Deafness.—With white dogs especially this is a fairly common disease. Usually with them it is congestial and incurable. The condition may, however, artse from a secretion of wax, and in that case gentles syringing with lukewarm water, careful drying of the ear, and the insertion therein of a little almond oil, warmed in a spoon held over a spirit fame, will give relief.

Diaprhoss.—An extremely common allment with dogs and pupples, and one that must never go unchecked; on the other hand, it must not be stepped directly a looseness of the bowels is noted, as that is Nature's way of getting rid of some undesirable matter. A good plan let ogive a dessertsponful or a teaspoonful of castor oil. Worms and unsuitable food are commonly responsible for the trouble, while are injudicious use of flowers of sulphur is now and again a direct cause. Still, whatever the cause, the oil suggested will do good, and this may be followed by 5gr. to 1ogr. of subn which some sureded rawrent best of mutton has been mixed, may also be given: but the rice must be therroughly cooked, or further trouble may result. Young puppies with the dam should not have drugs: they should be treated through the mother, but offer ones may have half a tesspoonful of ordnary chalk mixture.

mixture.

Distemper.—The commonest and most fatal of all dog diseases. Though usually a disease of suppyhood it also attacks adult dogs. One attack of the disease does not render an animal immune, but second and third fittacks are as a rule lighter. Hy dogs do not have distemper, though the number witch escape is selatively small. It is a many-phased disease that runs a specific course, and though certain drugs are helpful, the patient depends for recovery still more upon good nursing. The great thing is to treat the disease directly it is recognised. The usual form is characterised by running of the eyes and nostrils, a bot nose, and a decided rise in temperature. The

first t fing to be done is to remove the dog to warm, alry quarters, where he will receive constant strention. It is very essential that the discharge from the eyes and nose be kept esmoved. Once the nose gets clogged fith the mucus, complications are sure to arise (the lungs and the broad hand to case is not then amenable to home treatment. If ordinary invalid food is refused—as it frequent. dult —Borri in one teaspoontii, milk ex., and half an egg. In addition a fresh egg should be besten up in a little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also help in little milk; this is sustaining and will also he patient be ordered and the meat therefrom cut up finely and milked with the head was boiled, St. Vitus Dance (Chorea) feather whose business it is to wait on distemper patients should not be allowed access to halten per patients. Those whose business it is to wait on distemper patients should not be allowed access to help in little milk the head was boiled, St. Vitus Dance (Chorea) feath whose business it is to wait on distemper patients should not be allowed access to help allowed and the head was boiled, St. Vitus Dance (Chorea) feath milk the head was boiled, St. Vitus Dance (Chorea) feath milk the head was boiled and the meat therefore the help and the help and the help and the help and the help and the help and the help and the help a

unsuitable dietary, or from worm infestation. Contrary to the opinion often entertained, Eczema is not due to to the opinion often entertained, Eczema is not due to a parasite (as Mange in both forms is), but is really a blood disorder and therefore non-contagious, she kun often presents a very red appearance, especially in the thigh region, when the disease is known as Red Mange; or in addition to the inflained condition there may be bladder-like eruptions which, having discharged their contents, form scabs and coalesce. To attempt to allay the irritation (the effect) without attacking the cause is not of any permanent use. The cause must be diagnosed and efforts made to remove that the other contents are the contents of the cause in the permanent use. The cause must be diagnosed and efforts made to remove that the private policy and the publisher conditions of the blood. it and to bring about a healthier condition of the blood. it and to bring about a healthier condition of the blood. For this, from a dessertspoorful to a tablespoonful of the following should be tried:—Liquor arsenicalis, z dr., thicture of ginger 2 dr., Epsom salts z oz., water to 6 oz. To allay the skin irritation use one part of flowers of sulphur to six parts of olive oil. Scottlish and several other Tgrirers seem particularly susceptible to a form of wet edzena between the toes. For this broit acrid is excellent. For this boric acid is excellent,

Fits.—Those most commonly met with are due either to teething or to epilepsy. The former are not of great moment, and usually an aperient at the time of great moment, and usually an aperient at the time the permanent teeth are irrupted will prevent them. Epileptic fits are more serious. The dog when seized seems to tremble violently, staggers, and falls down should he attempt to move. They are younly accom-panied by a frothing at the mouth, champing of the jaws, violent convusions, and a moaning. Beyond removing the animal to a quiet spot inttle can be done, When the fit is over the animal will collect himself, and will gree up apparently all right. Bromide as and will get up apparently all right. Bromide of Potassium in 2 gr. doses, twice a day, will have a quieting effect on the nervous system; but care must

quetting effect on the nervous system; but care mush be taken not unduly to excite a dog showing a pacific position to these fits, or to give exercise on a full meal. Worms, too, are a cause of fits in both puppies, and adults. The remedy is to expel the parasites. Flame.—Dogs chart are neglected (ungroomed) or whose sleeping-places are not looked after, are very liable to flea attacks. These are found on the dog as perfect insects only, the larval (grub) and chrysalisstage being passed in dust and other debris. There are plenty of soaps on the market that will fill fleas; while leyes' Fluid in solution will also be equally useful. In the smaller dogs (toys) a spraying will, camphor spirit, followed by a combing, should get rid; of the pests; but care must be taken, that the spirit does not get into the eyes. Baskets, cuslions, and rugs should be periodically cleansed, and theated to an insecticide.

Indigestion.-Another common ailment generally

the result of improper feeding and lack of exercise and fresh air. The chief symptoms are an unhealthy appetite (craving for chuders and coal), diarrhees, bad breath, vomiting and construction, breath, vomiting and constipation. A compound rhubard pill—or two in the case of the larger dogs—given on alternate nights for a week, will soon work an improvement if at the same time attention be given to

improvement if at the same time attention be given to dietary and exercise.

Lice.—Two kinds of lice are found on the dog—a biting and a sucking kind. They are usually more difficult to get rid of than fleas by reason of the fact that not only have the insects themselves to be taken into account, but also the unhatched generations in the egg-cases ("nfis") attached to the hair-shafts. All hair-combings should be burned directly after grouning, and the dog dressed with one part parafin and two parts olive oil. The egg-cases may also be dissolved by means of vinegar. I eyes Fluid (one in fifty is also a good insecticide. Lice are debilitating to their host, and are, moreover, the intermediates of Tapeworm and thus doubly objectionable.

Hange.—Though often spoken of in connection with dogs, Mange cannot be regarded as a common disease in either the Sarcoptic or the Follicular form. As it is communicable to man—at least in the Sarcoptic.

disease in either the Sarcoptic or the Folicular form.

As it is communicable to man—at least in the Sarcoptic form—home treatment is not advisable. Again, at the outset it is difficult to differentiate it from Fersema. Later, however, the shedding of the coat and the unwholesome appearance due to the bursting of the pustules, the exudation of a fluid, and the coalescing of the scabs, should be sufficient to warn the owner. of the scabs, should be sufficient to warm the owner. Mange is due entirely to parasitise, the one burrowing under the cuticle, and the other beneath the har follicles. It is highly contagous, and a kennel or other sleeping-place used by a mangy patient should not be occupied by a bealthy dog until it has been thoroughly disinfected, and then only on the advice of

thoroughly disinfected, and then only on the advice of a veterinary surgeon

Rickets.—Pupples bred from ricketty parents, or rearred under unhealthy conditions, or fed on an unsuitable diet, are liable to contract this deforming disease. It is caused by a deficiency of earthy matter in the limbs chiefly, and the result is that they are unable to support the body-weight and become missiapen. Moreover, once the limbs are crooked the deformity is permanent. The great thing to aim at is prevention. This is best brought about by finding a groad substitute for the dam's milk at weating these good substitute for the dam's milk at weaning time

(see Feeding). Ten grains of phosphate of calcium given in the food twice a day should also prove of great benefit.

great benent.

Ring worm.—Two varieties of Ringworm are found
on the dog—honeycomb and circular. The fungus
responsible therefor is easily introduced into an otherwise healthy area by means of cats, cattle, etc.
Affected animals should be isolated directly the
disease is noticed, and dressed with yellow mercuric
oxide ointment. Ringworm is very contagious and

transmissible to man.

Ticks...-Pet-dogs that have the run of the country are almost certain to pick up Ticks--animals which approach the spiders in form. They are very irritating as well as debilitating to their host. When first they as well as debilitating to their host. When first they attach themselves they are quite small, but gradually assume goodly proportions, and when full fed are not unlike a plump horse bean. They should never be picked off, as in doing so the mouth-parts of the creature are invariably left, and these cause nasty sores. If not very numerous they should just be touched with a camel-hair pencil dipped in turpentine. This will cause them to relax their hold, and they may then be readily detached and crushed. Washing with soap is of no avail against Tricks. Several firms of repute sell efficacious lotions to be used against the pests.

Worms.-Round, Tape-, and Thread-worms affect WOFME.—Kound, Tape, and Thread-worms affect the dog and are the cause of much trouble. Pupples nearly always harbour the kind first mentioned, and they are detrimental to their health. Pot-bellied individuals should always be suspected, and a vermifuge be given. Sherley's Worm Capsules are safe and effectual. For Tapeworms (usually passed in flat segments with the faces) oll of male ferm in capsule form and in doses suited to the different breeds is almost a snot in doses stitled to the uniferent process is among a specific. All vermlinges should be given after fasting the dog twelve hours, and should be followed in half-an-hour with a dose of castor-oll—a dessertspoonful to a tablespoonful. So long as the head of the creature a naisesponnial. So long as the need of the creature remains, however, the worm will continue to increase by budding off segments from the head. By way of prevention all dogs should be kept free from fass and lice, and on no account should they have access to uncooked rabbits' livers or sheeps' heads, either of which may be the means of infesting the dog with Tapeworms of a most injurious kind.

Thread-worms may be ousted by similar meana.

#### CATS.

The cat may be truthfully classed as amongst the most beautiful, elegant, and graceful of all carnivorous mammals, while its againty is nothing short of remarkable. It is, moreover, an animal of great utility, and assists materially in holding in check two of the most destructive of all vermin—the rat and the mouse. In the days of Julius Casar, although our forests were plentifully supplied with cats, not a single "mouser" efficied in any British town or village. And further, it is regorded that the donestic cat was a rarry even a thousand years after. Cats have been kept as pots shough for hundreds of years now, and once having proved their value to man as destroyers of vernini became greatly valued.

#### VARIETIES.

In a general way Domestic Cats are divided into two classes — Long-haired, and Short-haired. As exhibition specimens the Long-haired are much the more popular, but the latter are much the more non-popular, but the latter are much the more non-popular, but the latter are much the more non-popular, but the latter are much "Latter Long-Haired Cats." Not many years ago these were judged for coat and size only, and the colours were few; now there are many "Back. Blue, White, Orange, and Cream in Selfs; Brown." Silver, Orange, and Blue in Tables; Tortoiseshell, Tortoiseshell, and White, and Blue-nud-Cream in Broken Colours. The most valuable and highly-przed colour of all is that known as Chinchilla. The Chinchilla is a cat that is practically a silver, but its fur is just ficeked or tipped very faintly with grey. The Smoke possesses an under coat of pure silver, whilst its torp coat is a rich black. A sound-coloured Smoke, must not show any barriag or tabby marking. It sunder colour must be as clear and pure as its top coat is bright and sparkling. Its under colour must be as clear and pure as the Chinchilla have nothing in common

except the colour of under coat. The top coat of the except the colour of under coat. The top coat of the one must be as light as possible, and that of the other as black as possible. The Chunchilla has a green eye, peculiarly beautiful and lovely, but the eye of the Smoke has been improved into a rich amber of a coppery hue. The most popular of colours is that known as blue, but strictly speaking the colour is more of a French greet than a blue, although there is one family of Blues are than a blue, although there is one family of Blues.

grey than a blue, although there is one family of Blues which possesses a warm and deeper tone, and is more of a plum blue. This particular strain has been in great request of recent years, and one of its members, known as Champion Sir Archie II. of Arrandale, has produced more winning cats and kitten than any cat ever bred. The eye of the Blue must be deep amber or copper colourged if it is to be accounted of vailso on the show bensh. Blacks, Brown Tabbies, Orange Selfs and Tabbies, Snokes, Creams, Tortoiseshells, Tortoiseshell-and-Whites, Blue-and-Creams, and Blue Tabbies should all have orange or amber coloured eyes. Silver Tabbies should possess a dark hazel eye. All the best authorities are agreed on this point, although of late years one or two prominent judges although of late years one or two prominent judges have stated their preference for the green eye, but

their opinion has not been shared by the leading

their opinion has not been shared by the leading breeders. Whites have blue eyes.

All the Tabbies are named after the ground colour of their coats—Brown, Silver, Blue, and Orange. The stripes of the first three must be black, whilst those of the Orange are of a richer and deeper hue than the ground colour, and a good description to apply to them would be red. In fact some people speak of Orange Tabbies as Red Tabbies, but that is hardly correct, Orange and Cream Selfs have one common ancestry, and have come from the crossing of Blue Selfs and Varange Tabbies; then inter-breeding the property. and have come from the crossing of Blue Selfs and Drange Tabbies; then inter-breeding the progeny, and making careful selection from each succeeding generation, until now the two colours are established and breed fairly true. An occasional cross between the Orange and the Cream is beneficial to both, but particularly so to the Cream, because it keeps up the colour without any further admixture of blue. Blacks with him does nich the bright in solurus, parcible. must be as deep rich and bright in colour as possible. It is somewhat remarkable that the best coloured black cats are usually very rusty and brownish in their top coat as kittens. Therefore a kitten should not be rejected on account of its colour until it has shed its kitten fur, and rejoices in the possession of its full adult coat. Toroiseshells are tri-coloured, having distinct patches of black, red, and yellow, and the richer, deeper, and clearer these three colours are so much more valuable the animal. Thus far the Tortoiseshell Tom is the rara avis of the Cat Fancy, only two or three specimens having made their appearance.
Tortoiseshells are bred from the crossing of Blacks and Oranges, and from either of these colours with Tortoise-At one time Orange females were as rare as Tortoleshell males, but now they are fairly common. The writer was, we helieve, the first breeder to produce Orange females. Whites are very handsome and are highly esteemed on the show bench.

The chief points of the Long-Haired Cat apart from colour, which is a very welgity consideration, and a point of great value, are-Head, round and compact as possible, bold in the forehead, short in face, full and possible, bold in the forchead, short in face, full and round in the cheeks and lower jaw; the nove should be short and wide, and have a slight inward tilt; the eyes should be round, full, bold, and bright; a lustreless eye is a great drawback, and ears should be short, neat, well tufterd, and widely set in the forchead. Body, compact, cobby, and firm. Legs, stout, strong in bone, well covered with fur. Feet, broad, well padded and nicely tufted. Firll or collar, long, full, and flowing. Tall, short, wide and bushy, and carrying a profusion of fur, hence the cognomen "brush" so often applied. Bhort-Haired Cats,—In coat and structure the Short-Haired Cats differ very materially, not only from

Short-Haired Cats differ very materially, not only from the Long-Haired but also from each other. All the Long-Hairs are alike in shape, coat, and carriage. Not so the Signt-Hairs. There is only one variety of

Not so the Sight-Hairs. There is only one variety of Long-Haired, but there are five varieties of Short-Haired-British, Manx. Abysanian, Russian, and Siamese. Another variety's sometimes spoken of—the Maltese, but it is not recognized by English breeders. We will speak of the British first. The ordinary househould cat or family mouser. It is more elongated in body, legs and tail than the Long-Haired Cat. The bead, although full and round, is not so short in face and nose as that of the Long-Haired. It is freen in its novements and prosesses a more viceous and swincing. and nose as that of the Long-Haired. It is freen in its movements, and possesses a more vigorous and swinging galt than does the Long-Haired. The colours are—Black, Blue, White, Orange, and Cream in Selfs. Brown, Silver, Grey, and Orange in Tabbles. In eye colour they are the same as the various Long-Hairs, as are the two other colours, Tortoiseshell and Tortoiseshell-White. The coat of all British cats is soft, fine, sleek, and velvety.

Mank Cats are tailless. They are not 30 elongated in body as the British, the hindquarters having a sort of chonned of appearance; they are not source.

in body as the prirsh, five mindularters naving a sor of chopped-off appearance; they are not square, but rounded; the hind legs are unusually long, thus the body slopes towards the shoulders, liftead of from them as in the British cats. The Mank cats are devold of the graceful carriage of the British, and have a kind of lounging gait, something like that of a rabbit.

Abyssimian Cats.—These bear a close resem-

blance to the Egyptian cats, and many believe them to be direct descendants of the original Egyptians. The name Abyssinian suggests a connection with Egypt,

and the fact that they are quite distinct in colour from any other cats known to English breeders also lends colour to the Egyptian theory. The body is long and silm, as are the legs and tail. The face is more wedge-shaped than that if the British. The ears are rather long and fine and tipped with black. In colour it is brown, and is evenly ticked with black. Silvers have been produced, but the best authorities say they are not pure, and are the result of being crossed with the British Tablics. The contention must be correct but we are

and are the result of being crossed with the British Tabbies. This contention may be correct, but we are inclined to dispute it. In our opinion the Silvers are sports from the Browns, and are the result of a failure or weakness of the colouring pigment. Russian Cats.—These are beautiful inch lavenderbue in colour, a brighter and more metallic hue than the blue of the British Cat, which they resemble in body shape but not in head, the head being longer and not so massive as that of the British. The coat of the Ryssian is altogether different to that of the British, it is not so soft and velvety, but is closer and firmer, and possesses a plush-like appearance and pruss, it is not so soit and veivery, but is closer and firmer, and possesses a plush-like appearance and feeling. The eyes are not so deep in colour as those of the British Blue, and often show a shade of green. English breeders like the deep coloured eye, but the paler shade is more in keeping with the colour and texture of the coat of the Russian.

Signates Cats.—As the name indicates these are the Royal Cats of Siam, and they are most distinctive in character. In shape of body they resemble the British Cats, but are more delicately formed, are finer in bone, and somewhat shorter in lunb. The head is fine, but not so long nor so wedge-shaped as that of the Abyssman. When young the Royal Cat of Slam is of a clear cream colour, but as it ages to the colour darkens to fawn, and from fawn to chocolate. It has clear clima blue eyes, and its face, ears, paws and tail have rich scal-brown markings. They are hardy if kept under proper conditions. There is a blue variety, but only a few have been imported into England.

#### MANAGEMENT.

Breeding.—No better place for the early home of luttens can be desired than a cheese tub. One of these will only cost a few pence from the local grocer, and when scrubbed and cleaned needs nothing more than a piece of old blanket or fannel nothing more than a piece of old blanket or flannel laid in the bottom to make a ever comfortable bed for a breeding queez. Phissy should be introduced to her quarters about a week before the kittens are expected, and she will soon understand and appreciate them. The blanket or flannel should be changed every few days, then no trouble will be experienced from fless, and the first the kittens of the training of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta especially if the bottom of the tub is wiped out with a cloth and dusted with pyrethum insect powder each time the blanket is changed. The welfare of a litter of kittens depemb in great measure upon the cleanliness of their bed, as its impossible for them to three if a colony of fieas are sucking their like blood from them. It is not advisable to mate a queen befor she is ten or twelve months of age, nor to allow her to have more than two litters in a season if it is desired to have strong, robust, healthy kittens. When a queen shows signs of becoming restless, she should be shut up until arrangeients can be made to send her away to be mated, so that she may not contract a mis-alliance. Nine weeks

from the time of mating kittens may be expected.

Feeding.—For the first seven or eight weeks the kittens will do well enough with their mother's milk. kittens will do well enough with their mother's milk. Then they may be given a little cow's milk, thin gruel matte with, catmeal and milk, and Benger's rRidge's Food. At nhe weeks they should be given porridge made from milk and rolled oats such as Quaker, Provost, or Waverley. At twelve weeks they may have a little minced beef cooked with their porridge; as change of food they should be given plippy, or dog, biscuits broken up and cooked as porridge. This due may be continued until the kittens are seven or eight months old. Many give kittens raw nunced or scraped beef from the age of three months, but it is not needful; in fact, our experience leads us to the conclusion that young kittens do better without, than with, raw meat. Young kittens when weaned need to be fed five or six times a day, say, every two hours; when three months, every three hours; from six to eight months, four times a day; after that age, twice a day. For adult cars the diet should be varied, and may consist of fish, meat (gooked or raw), gravy, vegetables, boiled trupe, table scraps, breadd, much and only of the ordinary hound meals, and dog buscutts which may be scaled and mixed with meat and vegetables or fish, or fed alone. Milk we do not care for as a food for cats after early kittenhood; we long ago came to the conclusion that they do far better without it. There is one thing, however, which should never be forgotten, and that is a dish of clean cold water renewed tweep down With this, and care and cleanlness, there will not be much illness. Kuttens will learn the use of the sanitary pan from their mother, and will use it regularly from the earliest days of kuttenhood if permitted. Finely sifted ashes are the best material for the pan, but powdered peat moss or dry earth are officient substitutes. officient substitutes.

Grooming.-The health and general well-being of ordening.—Inc nealth and general well-being or depends greatly upon the way in which their bodies as well as their beds and resting places are cleansed. Every day the coats of Long-laired cats should be well brushed with a long-bristled brush such as ladies use for brushing their tresses. Comiss should never be used unless absolutely necessary, as they tear the coat and destroy its heauty. If the coar-should become matted and cutted, the cots should be tested. become matted and cutted, the cost should be tested out with a long darming needle, then grently combed, and afterwards brushed out. If neglected, the coats will soon become matted; therefore, the daily use of the brush should not be aeglected. Before showing, the coats of Blues, Blacks, Browns, Creams and Oranges should be dry-cleaned with warm bran, which should be well rubbed into the coat with the hands and then carefully brushed out. Winter, Silvers and Chinchillas should be cleansed with baked flour or with Pears' Prepared White Fuller's Earth, rubbed in in the same ill brushed out. It must be remembered that the daily grooming does more than add to the cat's outward appearance; it keeps it in good health by preventing the loose fur from entering the cat's stomach and causing fur balling. In connection with this, we may say that cats who are able to eat long coarse grass are seldom affected in this manner, the grass preventing the balling by reason of its power as a natural comet.

its power as a natural emetic.

#### DISEASES AND PARASITES.

Canker of the Ears.—A disease that might be treated on the general lines sure sted for dogs.

Cold in the Head.—Success, coughing, and eye and nos discharge are the symptoms. The treatment and nose discharge are the symptoms. The treatment consists in keeping the cat warm and groung light, easily-digested food. Should the discharge clog the nostrils, the cat's head should be held over a vessel of hot water containing a little Eucalyptus Oil or else a decoction of Poppy Heads. This complaint is very contagous, Diarrhond.—Symptoms too well known to need

description. Observe the same general rules as are detailed for dogs.

description. Observe the same general rules as are detailed for dogs.

Distemper.—A highly contagious disease characterised by loss of appetite and weight, and a hot nose; it is a large of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the seaso

treatment advised for dogs. Three-grain Bromide of Potassium tableids should be dissolved in a little water

Potassum tableids should be dissolved in a little water and given as a sedative.

Fleas.—These are especially troublesome in the case of long-haired cats. They are best got rid of by spraying with spirit of cauphor from tail to neck (taking care that none gets in the eyes), and then combing the cat over a vessel of hot water.

Fur-Balling.—This is not a disease although it often gives rise to one, and is not infrequently the cause of a cat's death. Usually the cat owner resorts to cattered, and then makes matter, worse. The best

to castor-oil, and thus makes matters worse. The best

to castor-oil, and thus makes matters worse. The best thing to be done is to get a pugeon and to give a wing —feathers and all—to the Cat. This will usually dislodge the fur ball—to the Cat. This will usually dislodge the fur ball—without much trouble. Gastro-Entsertits.—Perhaps the most fatal of all cat discuses, and usually due to erroneous feeding, or the cat eating garbage. The "stools" are greenish and most offensive; there is much fever accompanied by a swelling and tendeniess of the stomach. It is infectious and the aid of a Veterinary Surgeon should at more be emisted. at once be enlisted.

Lice.—A biting louse is found on the cat. It does not seem to cause much irritation. It may be destroyed by using creolin a part, water 200 parts twice a week. Fatty food is called for, and cod-liver oil will be found of benefit in such cases.

be found of benefit in such cases.

Mange.—A somewhat ultractable disease not amenable generally to home treatment.

Milk Tumours.—These unsightly swellings are due to unthinking people destroying the whole of a litter of kittens and not attempting to disperse the milk. When all the kittens are taken away from the mother while she has plenty of milk, the latter should first be drawn off and the milk-glands rubbed with camphorated oil.

Bingwarm.—An irritating skin condition due to

camphorated oil.

Ringworm.—An irritating skin condition due to a fungus, and as the complaint is communicable to man, it is best treated by a Veterinary Surgeon.

Worms.—Both Round and Tape-worms are found in the cat. For the first give to an adult: arecanut, 6 grams, vantonin, i gram, followed in an hour by a dissert-spoonful of castor-oil. For the Tape-worms Oil of Male Fern (obtainable in capsules) is excellent. After the expulsion of the parasites the cat will need After the expulsion of the parasites the cat will need to be generously fed.

#### GOATS.

Disposition and Tractability.—Goats are capable of being made as companionable as dogs. They should be taken in hand when quite young, a well-bred kid being far easier to procure than a full-growin goat, which may cost anything between £5 and £10, whereas a kid may be had for a pound or thirty shillings.

shillings.

Rearing Kids.—Our advice to beginners is to write to some of the principal breeders of British Goat Society, and end-avour to purchase a female kid from parents flossessing a milking pedigree, which mean one whose dum or grand dam has wen a milking prace, showing that the progeny are likely to inherit this quality.

Many goats produce three kids at a birth, but it is better, to rear two well than three midiferently, and

Many goats produce three kids at a birth, but it is better, to rear two well than three middifferently, and therefore breeders may often be willing to part with the third at a reasonable pince, and this is the chance for the novice. The sooner the kid is taken from its mether alter birth the easier it is to rear by hand, and artificial feeding is easily managed if the following conditions are observed:—The first and most important is to pay the greatest attention to cleanliness in the utensis used. The feeding-bottle should be one of those having a teat fixed to one end and not one connected by a long tube which accumulates sour milk and is difficulted clean. It must be mised of with scalding water once a day at least, and occasionally left soaking in soda water. The best milk of course is goat is milk, but as this is not often obtainable where a goat is not kept on the premises, cow's milk may be substituted, a quarter of a pint at a time, repeated several times a day for the first week. Afterwards the meal may approximate to first week. Afterwards the meal may approximate to first week. Afterwards the meal may approximate to half a punt and be repeated less often. At a week old a quart a day may be given

and this may be gradually increased afterwards. At the end of a month, if economy has to be considered, soc. calf-meal gruel may be green mixed with the cow's milk, and continued in larger proportion as the animal grows, till at two months old this artificial food may be supplied alone or at least with only a small proportion of milk. At ten weeks the kid may, if desired, be graduallys weaned from the bottle and encouraged to eat hay-which it will have already nibbled freely if offered—and crushed cats muxed with bran. It will be found beneficial, however, to continue the hquid nourishment night and morning for another month or longer.

Goatlings.—Technically speaking a kid is a young goat up to twelve months old; from that age to two years it is known as a goatling, which corresponds to a heifer amongst cows. Now a goat is the most pre-coclous of probably all domestic animals, and if allowed the opportunity it will mate even before it is fully weaned, and bring forth a kid before it is itself out of its kidhood. This must be carefully guarded against by anyone wishing to rear a fine goat, for this early breeding arrests growth, and the animal never attains afterwards its proper development. She kids and goatlings must therefore be kept quite away from male kids or goats.

Assuming the kid to have been born in March, it

and goattings must receive to be says and march, it make kids or goats.

Assuming the kid to have been born in March, it should not be mated until the September of the year following. As the period of gestation is five months it will then come into profit the following February or

will then come into pront the following February or March, when it has practically done growing.

Training a Goat for Draught.—It will be during the goatling stage, and, in fact, as soon as it is no longer a kid, that the animal should be trained for drawing a carriage if such be desired. The first thing to be done is to accuston the animal to a bridle and but each the text details the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control to be done is to accustom the animal to a bridle and bit, and then to drive it about with a pair of reins but without being attached to any vehicle. This is to teach it the use of the bit and to get it to answer to the rein, turning to right or left and stopping as required. The goat is then attached to a light cart, being at first led by hand, and afterwards driven until it understands what is expected of it.

Facting.—Grass is by no means a necessity. The animal enjoys nasturage naturally, but the crass must

animal enjoys pasturage naturally, but the grass must be clean and sweet; trimmings of hedges and prunings

of trees form admirable food. There is, indeed, nothing in a vegetable garden, from such weeds at thistles and docks to penhauim and potato tops, stalks of greens, etc., that comes amiss to these animals. When the time of the year arrives in which garden produce is no longer available, recourse must be had to hay and oats, with swedes or mangolds as green food, and such scraps as the kitchen affords in the tray of pieces of bread, anole and potato parmer, the scrapand such scraps as the kitchen allows in the very pieces of bread, apple and potato parings, the strapings of the porridge-pot, and such like. It is out of waste material of this kind that the pet goat provides the household with the most nourishing and digestible of milks—a milk which gives a creamy taste to your tea and coffee, and the puddings that are made with it.

#### RABBITS.

England has long frid the lead so far as the breeding of high-class exhibition rabbits is concerned, but on the utility side is a long way behind the Continent so far as the production of rabbit-meat and valuable skins are concerned. This reproach is likely to be swept away in the near future, as quite recently two associations have been started to promote the cultivation of rabbit-breeding solely for the sake of the skins and meat. When we consider that all domesticated rabbits are descended from the brown, or creve, but (Lepis canicalus), so familia? On us all, we are led to realise how great has been the ingenuity and serseverance of fanciers in the production and perfecting of the many varieties with the hen greatly assisted by the many specialist clubs devoted to the culture of Fancy Rabbits. If, by the influence of the new utilitarian societies we are led to consider the commercial value of rabbit-breeding, England will quickly beat the Continent in the production of valuable, equitful sites, if not as far as table-meat is concerned.

**Warieties.**—(1) Augora: points—long fleecy coats, Warieties.-(1) Angora: points-long fleecy coats,

heavily tufted ears and feet; colours—white, black, blue, fawn and grey, the first the most common. (a) Belgian Hare (bred to the type of the wild hare); points—length of bedy, fine head, fineness of bone, and rich lifetous red colour. (3) Dutch: points—smart cobby body, close fine coat; markings—white bizze colour and fret stope; colours—black, blue, light and dark grey, tortoiseshell, yellow; weight 5 lb. to 5 lb. (4) English: shape, size, full close coat; markings—butterfly nose, eyes, cars, cheeks, saddle, body, legs and belly; colours—black, blue, grey, tortoiseshell. (5) Flemish Giant: points—size, massive bone, squareness of body, firuness of fiesh; colour—steel-grey; weight 15 lb. to 20 lb. (6) Havana i points—sineness of bone, ra:y appearance, fineness of coat; colour—chocolate-brown, like a chooce Havana cigar. (7) Hunalayan; points—small cobby body, pink eyes, close fine coat; colours—white, with black nose, ears, feet and tail, "[8] Imperial; points—medium size, short fine silky coat, blue eyes; colour—medium blue; weight 5 lb. to 6 lb. (9) Lops; points—length, width, subsance, and carrage of ears, size of body, straightness of limbs; colours—black, black and white, blue, blue and white, fawn, fawn and white, fawn, fawn and white, fawn, fawn and white, sooty fawn, and sortoiseshell; the ears of first-class specimens measure 27 to 28 inches from tip to the and 7 to 8 theches across. (10) Polish; points—neat colour—body, straightness of limbs; colours—ansaure 27 to 28 inches from tip to the part of the colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine coat; colours—blody, short fine co specimens measure 27 to 28 inches from the to tip, and 7 to 8 thches across. (10) Polish: points—neat cobby body, short ears, pink eyes, short fine coat; colour—white. (11) Silvers: points—short cobby bodies, but larger than Polish or Husalayan, evenness and soundness of colour, brightness and sharpness of silvery ticking, short fine coats, fine hone, neat ears; colours—grey, fawn, brown, blue, divided into shades known as light, medium, and dark in each of the four colours; weight 21 lb. to 6 lb. (12) Tans; points—shape of body, fineness of bone, sharp, alert expression like unto the wild rabbit; colours—black, and blue with tan markings lik: unto black and tan dogs.

Houaling—There are two forms of housing, outdoor and indoor. In the former the hutches are ranged in stacks out of doors, under a roof of tarred

door and indoor. In the former the hutches are ranged in stacks out of doors, under a roof of tarred felt or corrugated iron; in the latter, a shed, or properly built rabbitry is used for housing the hutches. The latter form is much the best if full attention is paid to the ventilation. The outside of all hutches should be painted. The floors should he very firmity and closely built, all joints should be well puttied, and the floors then tarred to prevent the moisture soaking through. Where a large number of rabbits are kept it is necessary to stack the hutches, and when this is done the low'st tier should be at least 18 inches off the floor or ground. Bricks or posts may rauous are kept it is necessary to stack the hutches, and when this is done the low-fix tier should be at least 18 inches off the floor or ground. Bricks or posts may be used for this purpose, but they should be covered with in to prevent rats and mice getting into the hutches. When fixing hutches it is wise to let them slant a little to the back. It is will keep the moisture from spreading all over the hutches and facilitate cleaning operations. Outdoor hutches should also be protected with shutters, which may be fixed with hinges, or held in position with bolts of Latton fasteners. Hutches for single rabbits should be about 2 ft. square. Breeding hutches should be from 3 ft. 6 in, to 4 ft. 6 in. in length according to the size of the variety kept. Lops, Belgian Hares, and Flemish need the largest size. These hutches should be fitted with a door at either end, the two meeting in the middle, or the whole of the from may be made to open. In the larger sized hutches she double doors are much to be preferred. The fronts of all lutches should be of wood

preferred. The fronts of all lutches should be of wood for the bottom half, and fine-meshed wire netting for the upper half. Separate breeding compartments are not advisable. The does usually make their nests in not advisable. The does usually make their nests in ne of the corners, and if an open hutch is used one can easily and quickly examine the young, if such is needed. If cash is short, most excellent hutches can be made out of strong cases which may be bought from drapers, ironmongers, or provision dealers. Rabbits are inclined to gnaw the projecting points of woodwork in their hutches, but if it is occasionally brushed over with paraffin oil there will not be much trouble in this direction.

Feeding.—Rabbits need feeding at least twice a day—morning and night, and if convenient a third meal at mid-day will do much good to suckling does and

growing young stock. To keep them in good health and condition, tariety and change of food is needed. The dietary should consist of good clean sound oats, wheat, bran, pollard, barley-me-lichay, green food and roots. In the summer time ordinary pet radbits will do well upon a handful of bran, a few oats, and a do well upon a handful of bran, a few oats, and a handful of green food in the morning, with hay and green food at night, and the night feed should be a generous one. In the winter, oats, bran, wheat, with hay and roots, such as carrots or swedes, may be given. When fattening, barley meal and pollard mixed into a crumbly mass should be given morning and night in addition to other foods.

High-dist application stock will require more crasful

addition to otherwoods.

High-class exhibition stock will require more careful feeding. The morning meal should consist of oats and bran, wheat and bran, or bran and pollard, with a little hay and green food; at nucl-day a handful of green food should be given; at night a plentiful supply of hay should be given; some green food or roots alked. hay should be given, some green food or roots alkoring to the season of the year, whilst the more substantial part of the meal may be wheat or cats, or a mash made of polkard, bran, and barley nieal mixed in the proportion of two-fifths of each of the former to one-fifth of the briefy meal. When dues are suckling young a dish of bread and milk given in the morning will prove most beneficial. Meadow grass, clover, lucerus, chicory, green oats, green wheat, sow flistle, dandelion, groundsel, cluckweed, lettuce, cabbage, cauliflower keaves, celery tops, carrot tops, pea and bran haulin, in fact any ordinary domestic green vegotable or garden refuse will be welcomed by bunny. No hard and fast rute ca* be laid down as to how much food a rabbit should eat. Rabbits, like human beings, vary in their needs. The small breeds must be fed with a careful hand, the larger ones more generously. Experience will soon teach how much food is needed either for single specimens, breeding does, or a butch full of young growing stock. A pan of clean fresh water should be given every morning.

**Ceneral Management.**—The butches should be bedded with savdus or finely ground peat most to the depth of one or rone and chalf niches, and this should be covered with soft straw or hay. When a number of rabbits are kept together the funches should be cleaned out every day, sangle hutches twee or three a week. ing to the season of the year, whilst the more substantial

rabbits are kept together the nutches should be cleaned out every day, single hutches twice or thrice a week. It is not necessary to remove the whole of the bedding, but only those portions winch are soiled. Once a week the whole should be removed, and the floors of the hutches thoroughly scraped and brushed. Exhibition stock will require grooming every day. The coats should be brushed with a fairly soft brush, and then the rubbed over with a with of have a day.

The coats should be brushed with a fairly soft brush, and then be rubbed over with a wisp of hay or a dry duster. When lifting rabbits, grasp then boldly in the middle of the back, and place one hand underneath to share the weight. If lifted by the ears, the left hand should hold the ears whilst the right hand should he placed under the hindquarters to support the weight.

The small varieties may be bred with when six or a state when the hind harden placed under the hindquarters to support the weight.

seven months, but the larger breeds should not be allowed to do so until they are eight or ten months old, seven months, but the larger breeds should not be allowed to do st'until they are eight or ten months old, that is if strong healthy progeny are desired. Early breeding, if persisted in, shortens the lives of the breeding stock and weakens the progeny. The stud buck should be kept an a butch by hinwistl, and does that are to be mated should be placed in his hutch. Never put the buck into the hutch of the doe. The period of gestation is thirty days. Sometimes does may kindle a day before, or a day or two later. About a week before the young make their appearance the doe will be seen carrying bits of hay and straw about the hutch, and tearing the fur from her chest. It is not was to interfere with the young miless the doe is of a very kind and friendly disposition. A hasty glance may be taken whilst the doe is feeding, or you may remove her from the hutch for a moment, but great care is needed not obtain the nest. Just pull the edge of it back, look quickly to see if the young are all right, and then place the nest edge back as you found it. Should there be a dead youngster in the nest remove it. If all goes on well the youngsters will begin peeping out of the nest at the end of a fortnight, and at three weeks will be found mibling at their mother's provender. At five weeks they may be removed, but if they are valuable, the longer "ou have them with the doe the stronger and finer they will be. At nine weeks they should be taken away so as to give the doe time to recuperate before she is again mated. The young may be kept together until three months old, when the sexes should be divided. As the bucks approach breeding age they will need separate hutches, or they will fight and damage each other.

#### COMMON AILMENTS.

Snumes.—Causo: A parasite which invades the nasal passages. Highly contagions. Commonest in debilitated stock kept under damp, maamtary surroundings. Symptoms: Less of appetite, duliness. A peculiar sneezing and coughing accompanied by profuse nasal discharge and salivation, which wets the chest and feet: often mistaken for a common cold. Treatment: Lesiste the rabbit and distinger the butch. Treatment: Isolate the rabbit and dismfect the hutch. As the disease is almost incurable, destroy all affected

As the disease is almost mentable, destroy all effected animals of no great value. Feed very liberally on bread and milk, corn, etc. Blow powdered borax up the nostrals, or drop m a few drops of equal parts of eucalyptus oil and glycenne twice daily.

Diarrhosa.—Causes: Poisoning due to giving too great a quantity continuously of one kind of green food; indigestion from unsuitable food; a too sudden change of dietary, heated (fermented) food, etc. Treatment: Change the dietary. Give meadow grass if possible A feed of slepherds' purse, or some water to drink, sometimes checks active symptoms. In young rabbits try feeding on bread and milk only for a few days.

for a few days.

Flass.—These pests may be kept in check by constant dustings of insect powder into the fur, and attention to securing thorough cleaniness.

#### CAYIES.

A quarter of a century since the word Cavy was not at all common. In those days people talked of Guineapigs, but suice the little squeaker of our boyhoods days was elevated into the position of a show animal it has rejoiced in the more high sounding and dignified appelation of Cavy. It is descended from the wild Cavia porteilus ("Restless Cavy"), and is a native of South America. Cavies make most pleasing and attractive pets for children, as they are most docile and tractable. Seldom, indeed, Goes one hear of a Cavy proving savage or vicious. Jurney the summer and tractable. Seldom, indeed, 60cs one liear of a Cavy proving savage or vicious. Juring the summer mouths they may be given a hut... with a long wired ron which may be placed in a convernent spot on the lawn, being moved to a fresh spot each day. They will clip the grass as close as any mowing machia; whilst their manure acts beneficially as a fertiliser. When out on the lawn they should be given clean fresh water to drink at least twice a day, and a few oats once a day. Their bed should chaisst of hay or soft straw. Common Guinea-pigs may be bought when young at from 13. to 25 6d. each. Show specimens tecth anything from 53 or 6, to 6, 20.

Yarleties.—There are three varieties cultivated by British fancets: —(1) Feruwan or Long-harded; points—

British fanciers:—(1)Peruvan or Long-haired: points—size, shape, length, density and fineness of coar, colour, the coat should completely envelop the body and hide the head; these tresses have in extra good specimens reached the wonderful length of 18 inches from the reached the wonderful length of 18 inches from the root to the end of the hair; colours—black, blue, fawn, cream, white, and agoutt, with combinations of these in bi-coloured and tri-coloured pigs. (a) Abysinians: points—size, shape, colour, harshness of coat, rosetting; the coat should be like pin-wire, about 14 inches in length, and full of well-defined ro-ettes; colours—black, red, white, agoutt, tortolseshell, tortonseshell and white, and other bi-coloured and tri-coloured combinations. (a) English, or Smooth-haired; pounts—size, and white, and other bi-coloured and tri-coloured com-binations. (g) English, or Smooth-liaired points—size, shape, colour, fineness of coat, and markings. Sub-varieties:—(1) vouries: Silver and gold, the grained colours are silver y grey and rich golden red internasad with black ticking. (2) Brindles: intermised black and red, hair for hair, being the standard of perfection. (3) Cinnamon: very light fawn or buff with faint ticking. (4) Dutch: marked like the Dutch rabbits; colours—agouti, black, red. (5) Hinnalayan: white with black noses, ears, and feet. (6) Selfs: black, blue, chocolate, cream, red. white. (7) Tortoiseshell, bicoloured, red and black in distinct patches. (8) Tortoise-shell and white, tri-coloured, red black, and white in distinct patches. (9) Tri-colours; agouti fawn and white, chocolate fawn and white, and other cou-

binations of above colours.

white, chicoante lawl and white, and other constitutions of above colours.

Housing—If a stable or an outbuilding with an importious foor is available, gilinea-pigs may be kept in pens separated by boards, about a foot high, over which they will not climb. They should be given warm boxes to lie in. If kept in hutches no division or sleeping box is necessary. The fronts may be covered with function mesh were netting, which need not be carried more than about a foot \$\text{P}\$. It is, however, necessary to afford perfect protection from the piossible onslaught of rats, cast, dogs, etc. Minnium size of pen or hatch for a trio and their universand progeny: 3 ft. long, in wide; allow an extra foot in length and 3 in in width for every extra cavy. Outdoor pens on the coop and run principle, but so constructed that vernan cannot burrow their way in, form suitable abodes if placed in a sheltered and sunny position. They should be stood on a concrete floor if intended to remain a pernanencies. The general principle, of louying given permanencies. The general principles of housing given in the chapter on rabbits are equally suitable in the management of cavies.

management of caves.

Breeding.—( avies are gregarious, and live in communities of a boar and several sows. Two strange adult boars must be kept apart; but an adult will generally accept the company of, and settle down with, small boars of three weeks or a month old. Sows resemt the introduction of strange members of their

own sex to their pen
When breeding high-class exhibition stock, the usual own sex to their pen. When breeding high-class exhibition stock, the usual practice is to run one boar with three or four sows, and when the sows are sen to be in young to retnove the boar to a hutch by himself. The period of gentation is seventy days. The young are born fully haired, and begin to run about and feed almost at once. It is not safe to leave the young are to run other after they are six weeks old, as there are instances on record of their breeding at this early age. When the young are removed from the breeding pen the sexes must be divided? It is advisable to let sows have a hutch to themselves at the time of kindling so as to be able to themselves at the time of kindling so as to be able to themselves at the time of kindling so as to be did not interfer with each other's progeny, but on the contrary the sows will all suckle the young indiscriminately. As soon as the young are taken away from the sow the boar may be introduced again.

Freeding—The general principles given in the chapter on rabbits are applicable to the freding of cavies.

#### COMMON AILMENTS.

Cavies are ingularly free from all kinds of diseases if housed and fed in a suitable manner. There are two diseases that attack them—consumption and dropsy. We have never heard of anyone curing the former, and

We have never near of anywise curing the former, and very seldom the latter

Skin Troubles.—When fed on a dietary that is to dry, or too heating, Cayes are apt to suffer from irritation of the skin, and tikey commence to bee themselves and this spoil their career as show specimens. As soon as a Cayy is seen to be bitting liself a sprinking of flowers of sulphur should be mixed in its meal mash, all dry corn should be removed from its detary and breast and wilk substituted, and in this a much of all dry corn should be removed from its detary and bread and milk substituted, and in this a punch of carbonate of magnesia may be mixed. It is sore should appear anywhere on the skin it should be washed each morning with warm water in which a few drops of Jeyes' Flint has been sprinkled; it should then be dried carefully, and touched with a little zinc outtient. **Yermin.**—If their hutches are kept scrupidously clean and their bodies groomed requiatly each day, no vermin will ever be found upon Cavita, unless they come in contact with other Cavies, or boxes, which have been infected with either lice of fleas. Cavies each away to prospective buyers are sometimes out

have been infected with either hee or fleas. Cavies sent away to prospective buyers are sonetimes put into hutches that are not quite clean, and sometimes at shows fleas or lice are picked up. The safest and quickest remedy is to mix a little of Jeyes Fluid in Jome water, dip a sponge in It, and give the Cavy a good rub over with the sponge; dry the coat with the

sponge and a dry duster. One dressing is sometimes enough, but there are occasions when the sponging will have to be repeated for several days.

#### MICE.

Origin.—Fancy mice are descended from the common grey house mouse (Mus musculus). They may cost from supence to a sovereign or more per pair according to colour, strain, and individual quality. The males only make an ofleusive smell.

Varieties.—Fancy mice may be divided into the following more or less well-defined varieties: (7) Agount (wild colour); (2) Sables (3) Black and tan; (4) Cunamon; (5) Self black; (6) Self chocolate; (7) Self red or yellow; (8) Albino (the "white mouse"); (9) Blue; (10) Lilac; (11) Silver; (12) Cream; (13) Dutchmarked; (14) Broken or spotted; (15) Black-eyed white; (10) Variegated; (17) Even-marked.

Japanese waltzing nuce are thought to owe their peculiar habit of spinions are thought to owe their peculiar habit of spinions are thought to owe their peculiar habit of spinions are

peculiar habit of spinning round after the tail until exhausted to a diseased or malformed condition of the auditory labyrinth

auditory labyrinth
Egyptian Spiny Mice (Acomys cahirensis) are sometimes bred in captivity in this country.

Housing.—Mice thrive if kept in pairs in the
ordinary flat dealers cage if a sufficiently large size
(12.) is selected. These cages will not vack. A rac
commercial cage (2x. 6d') in which the animals can be
watched has a glass front, and the nest-hoxes in an
upper story. Home-made cages may be made from
small boxes, air being obtained through a hole cut in
the lid and covered with perforated zinc. a view of the small boxes, an being hotament intrough a none of the animals being ensured through another hole cut in the front and covered with a sheet of glas—a cleaned photographic negative makes a good window. Mouse according to the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the photographic negative makes a good window. Mouse cages require careful construction, as the animals gnaw wooden projections. A little paraffin oil brushed on the wood helps to prevent this. Where several mice are kept together (such as a buck and two or three are step together (such as a back and two or infeed does) a large cage with a separate it at for each animal should be provided. Damp is fatal to these animals.

Feeding.—Feed once or twice daily. As stock food mix equal quantities of canary seed, millet seed,

food mix equal quantities of canary seed, millet seed, and bats, and give about a small teaspoonful per head daily on the floor of the cage. In addition, a piece of bread soaked in milk the size of a walhut; or as a change a little sgaked dog food. The pain must be kept scrippaloisly clean of the property of the dietary monand then.

A little vegetable food, such as flowering and seeding grass heads, groundsel, dantielion, or lettuce leaves, or a tiny piece of apple, carriet, swede, or mangold, may be given daily. No sour or decomposing fragments of moist food must be left about the cages.

General Management.—The cages must be kept thickly covered with dry sawdust. Some fanciers sprinkle Santacs over the sawdust before use; or mix equal parts of Santas sawdust and ordnary sawdust.

equal parts of Sanitas sawdust and ordinary sawdust to untigate the unpleasant smell made by the bucks. If the cages are kept scrupulously clean, and as few bucks as possible retained, then the presence of mice in bucks as possible retained, then the presence of nuce in a building need not be unduly obvious. The contents of the engres should be changed at least three times a week, care being taken to scrape well into the corners. The nest should be changed once or twice a week. Mit of should always be kept in couples or several together, as one animal does not three alone. Males brought up together from birth will live contentedly; but two adult bucks will fight and injure one another if an attempt is made to keep them together.

Mice breed very early and will used form four to

Mice breed very early and will produce from four to six litters in a year. The period of gestatton is go days, and the young will probably average about five in a litter. The buck and doe may be left together adways; or if it is desired to keep only one buck and several does the animals can all run together, each doe being removed to a sewrate care, when these treeds on the product of the service care. several does the animals can all run together, each doe being removed to a separate cage when she is seen to be in young. The doe will make her own nest out of clean they provided a few days before the litter is expected. The young are born blind and naked. About five or six days after birth the young can be looked at, the pretiest selected to rear, and the remainder destroyed.

The young should be taken away from the mother and the sexest-parated when they are four weeks old. It is not advisable to allow them to breed until they are three or four months old, though they will do so much sooner when well fed.

much sooner when well fed.

Mice may be lifted by grasping the tail firmly about half way up. No attempt must be made to pick them up by the extreme tip.

#### COMMON AILMENTS.

Ekin Troubla.—Symptoms: Small irritating pustules form on the skin and are quickly scratched into sores. Cause: Too heating a class of food. Treatment: Rub in sulphur ointment (flowers of sulphur mixed with vaseline). Sprinkle a pinch of sulphur on the bread and milk three times a week, or dissolve a little Epsom salts in water and give to drink, withholding all moist food. Increase the daily allowance of grass and vegetable food,

Mice occasionally die of fits, or are carried off in a few hours by pneumonia. Nothing can be done for a sick patient beyond keeping it warm and dry.

#### RATS.

Origin.—Some doubt exists as to whether fancy rats are the descendants of the Brown Rat (Muss decumanus) or the old English Black Rat (Mus ratus). Young white or piebald rats can usually be purchased

Young white or piebald rats can usually be purchased from an animal dealer for about od, apiece, and the females, tamed which young, make interesting and attractive piets. The males have an unpleasant smell. Sexes called buck and doe.

**Varleties.**—Fanciers divide rats into the following varieties; [1] The Pluk-eyed Albino (which is most admired when pure white and free from a yellow tinge); [2] Agouti (the grey or brown wild colour, with or without a white ventral surface; [3] Self Black; [4] the Hooded Rat (which is white with black or agouti head, shoulders, forelegs and dorsal stripe; [5] the "Irish" (which is black with a more or less white ventral surface; [6] Self Fawn or Yellow (specimens of which have recen'ly come into the possession of several breeders of several breeders

mens of which nave recency come into the possession of several breeders

Housing.—A cube singar-hox or an empty teachest makes a most suitable abode. The front should be closed in with a frame covered with ½-in. mesh wire-netting, and should be hinged to form a door. Inside this it is convenient to have a thin board of hard wood, 3 in. or 4 in. high, run across the front of the hutch, and let into grooves at each side, to prevent the sawdust, husks, etc., from being scattered about. A small lidded hox, with a hole bored in one end, should be placed invoke the hutch as a sleeping-hox. Bird travelling box-cages, of parrot size, procurable at most dealers', also make nice small, if not very convenient, cages for one pet rat.

Feeding.—Rats thrive best on a great variety of food, which must not be of too heating a character. Bread and "milk, soaked dog food occasionally, boiled rice, or, in fact, any plant farinaceous pudding, are suitable and appreciated, and if a little moist food of this class is given daily together with some vegetable food the annuals will require no water.

A heavy non-upsettable feeding-pot must be provided, and no more set

from the summar will require no water.

A heavy non-upsettable feeding-pot must be provided, and no more food given than is eaten up at once, as the remainder will be carned away to decompose in the nest. Grass heads is in flower and seed, dandelion, chicory, lettuce leaves, etc., in summer, and a small piece of apple, carrot, mangold, wheel or prastip in winter, will provide the necessary vegetable food. One or two tablespoonfuls of grain should be thrown into the hutch daily. A mixture made of equal parts of wheat, maize and oats is useful as a stock mixture; and a second marke of equal parts of canary seed, hemfored, sunflower seed, linseed, buckwheat, millet and dari can be made and given occasionally as a change. Feed once or twice daily.

**General Hanagement**.—Dry sawdust should be sprinkled on the floor of the hutch, and the nest-box filled with hay when the hutch is cleaned out. This

should be at least twice weekly during the winter, and three times weekly during the summer months.

Rats are very prolific. The period of gestatiff is about twenty-eight days, and the animals will commence to breed at five or six months old, or even earlier. The number of young at a birth varies from four to twelve (inhereen is not unknown); in favourable circumstances a female may have from four to six fitting in the year. The young are bom blind and naked. The authals may be paired, or one buck kept successively with several does for a period not exceeding these with several does for a period not exceeding three

No particular attention is required when the young are due beyond seeing that the nest-box is free from stale food, and provided with clean soft hay. The parents may be left tyether; but the nest should not be disturbed nor the young camined until they are at least a week old. The young can be weened when six weeks old by removal to a new hutch. It is advisable at this stage to seporate the sexes, as the bucks will then live peaceably together if undisturbed until fully grown.

As regards aliments, etc., treat skin trouble as re-commended under this heading for Mice. Fleas will not give trouble if the animals are kept in clean surroundings and prevented from mixing with flea-infested

specimens.

#### SOUIRRELS.

Squirrels are very generally distributed over the whole of the habitable world with the exception of the Australian region and Madagascar. Of the sixty or

the Australian regron and Madagascar. Of the skry or seventy species known, there are about a dozen which can be kept in a state of captivity, provided that proper accommodation be provided for them.

**Yaristies.**—Even foreign squirrels are not expensive pets: Chipmunks cost from 100, per pair; Flying Squirrels from 150,; Grey Squirrels from 200,; Drsal Squirrels from 350,; Prevost's Squirrel from 400,; the Common Squirrel only about 40. 60, or 50. The most expensive are the Malabar Squirrel, which cost from 350 65 per pair.

**Common Squirrel** (Schwus vulgaris)*—In colour this species is brownish-red, the chest and

Common Squirrel (Scierus vulgaris) Incolour this species is brownish-red, the cheet and ventral parts being a drab-white. During the late autumn and winter months the ears are densely tuffee with last, but during the spring and summer this growth gradually disappears, until about the end of June the ear-ups are almost naked. When born they are both naked and blind, and when the fur makes its appearance is the best time to take them if handrared specimens are required. Adult caught squirrel seldom get tame or even reconciled to captivity, and after a longer or shorter period usua2 pine away unless kept in large enclosures.

Grey Equirrel (Scierus caroliensis)—A very pretty and attractive animal of a silver grey colour; but there is considerable variation in the coloration of all these animals, and some grey squirrels are nearly

of all these animals, and some grey squirrels are nearly black and others nearly as red as our common species. They are the cheekiest and most confiding of all, and

as pets are pre-emineut.

as pers are pre-emment.

American Flying Squirfel (Scuropterus
Euchopeus) —This is a dusky brown tint above and
creamy-white beneath. It thrives well in captivity,
and gets tame more quickly than any of the other kınds

Enns. 

Ibreal Squirrel (Scurus dorsalis).—A hand-some animal, brownish-chestnut above and whitish-fawn beneath; but like the others is very variable in coloration. Prevost's Squirrel is an allied form.

coloration. Prevort's Squirrel is an allied form.

Malabar Equirrel.—A very large and beautiful creature of rich dark chestnut colour above with cream underrunts; it is about z feet in length.

Chipmul at [Tamus striatus].—This species belongs to the Ground Squirrels. It is smaller than its relations and prettily striped with black and white on a ground colour of black and fawn.

Indian Palm Equirrel is not so frequently imported as the other foreign squirrels owing to its capture being attended with some amount of difficulty, but it is a very handsome creature, with beautiful

markings and a delightfully soft fur. It gets tame very quickly but is somewhat delicate in confinement. Any of the above-named squirreis are well worth the attention of any pet keeper, as they are much more interesting to keep and show one's friends than the common European example. They are all amusing and intelligent pets, and when tame are really delightful little companions when let out in a room. It is better not to take them out of doors where treas abound in case the love of freedom asserts itself too strongly and they get out of bounds.

Cagas.—The cage for squirrols ought to be at least 4 feet square and solidly put together of 1-mi material, all projecting edges being protected with tin, as these animals, being true rodents, have a knack of grawing their way out of a cage. The wire front is best of half-inch mesh gatunised wire netting. A scring-box about a foot square should be attached to the back of the cage near the top just below the roof. This box should be accessible from the outside, by means of a small door cut in the frame of the mancage, so that it can be quickly got at to clean out when means of a small door cut in the frame of the main cage, so that it can be quickly got at to clean out when necessary and fresh bedding put in. It is a mistake to have the doors of a squirrel's cage too large, as these animals are very lively and quick in their movements, and would slip through the moment the door was opened unless it were only just big enough to admit the arm. The floor of the cage should be strewn with fresh sawdust and on top of this a layer of hay or straw; straw is the better of the two, as hay encourages inserts and once these have made a footbold us diffi-

opened unless it were only just big enough to summer the arm. The floor of the cage should be strewn with fresh sawdust and on top of this a layer of hay or straw; staw is the better of the two, as hay encourages insects, and once these have made a foothold it is difficult to get rid of them. The cage for the ground squirrels need not be so large, and the hay for the sloeping box should be as fine and soft as possible, for the Chipmunk spends most of fits time curied up therein. Those species other than the Chipmunk ought to have part of a tree branch fixed dingonally in their cage from a lower corner to an opposite upper one so that they can play about upon it. Earthenware food and water vessels are better than iron or metal ones, as they are more quickly cleaned, merely with skowel, besides being free from the licelihood of just; the only advantage of a metal food dish is said to stake the control of the cage will always be clean and free from any objectionable odour.

The Grey Squirrel is quate hardy and can be kept out of doors all the year round if it has a large enclosure or away to get pleuty of exercise in, and will breed if a pair have the place entirely to themselves. As deep were extremely jealous and pugnacous in disposition, different species cannot be kept together; if they were, it would be nothing less than one continual round of quarrelling, often resulting in the infliction of severe injuries on one another.

Freeding and Management.—Nuts form the principal portion of the diskary and are an absolute necessity. Almost any kinds her reliabled, but Brazis and filberts seem the greatest flovouries. Plenty of fresh water is necessary, as squirrels drink "a little and often." The frutts may be oranges, dates, apples, pears and grapes. Gram food in the shape of Indian corn and oats forms an agreeable supplementary diet. Carrots and greens are also useful as a change. Bread and milk, but is better if dry or merely disped in milk sufficiently to just moisten the opin of bread and milk, but is better if

rule only lives a very few days after being seized with this complaint. They also suffer from worms, which can be got rid of by the use of the time honoured areca nute. As the incisors grow rather rapidly some coceanut hell or other similarly hard, substance should be provided for them to graw at to keep their teeth is proper trim.

#### MONKEYS.

As pets monkeys have always had a peculiar fascination for most people, although it must be admitted that
usually the anticipation has proved most delightful than
the realisation, the aftermath—as it were—of the desire
being a trying period and the time that these pets were
kept a continual round of worry and vexation, often
culminating in diagreesable interviews with the neighbours and estrangianents in the household. This has
often been due entirely to ignorance and carelessness;
ignorance—in not knowing how property to eaze for
and look after the animal, and carelessness—in omitting
to do some proper-thing at some proper time or in some

ignoracec-in not knowing how properly to care for and look after the animal, and carelessness-in omitting to do some proper-thing at some proper time or in some proper manner. As an example;—a cage for a monkey—using the word in a wide sense—should always be fastened with either a lock and key or a padlock; the use of an ordinary turn-button or a screw-hook and eye to a cage being nothing short of crininal. A monkey may, if it gains its freedom unobserved, do an enormous amount of demage before its absence is detected and it can be recaptured.

Speaking generally monkeys are all tameable, but are very often extremely capricious in their likes and dislikes for their human friends. Occasionally one that is good-tempered will take a dislike to some person, and will consider it good fun to scratch and blue the fingers of that individual if he (or she) is imprudent or forgetful enough to place them within reach. Some species are endowed with a preternatural cunning, and it takes all the time of their owner to guard against some unpleasant contratemes. One of these monkeys will get an idea into its mund, and weeks may go by before a favourable opportunity occurs to mature it; however when the chance comes the lower review of will get an idea into its mind, and weeks may go before a favourable opportunity occurs to mature it; however, when the chance comes, the long period of waiting is fully made up for, and the glee of the monkey at circumventing the natureness of its guardies is most marked, and its pleasure is shown in a vivid manner, chuckling with delight until retrilution come, when poor "Jacko" is transformed into a very forion

and woe-becone animal.

Usually it is the ladies of the household who object

and woo-begone animals of the household who object to monkeys, and when one is suggested as a pet, draw very vividly upon their unaghiations as to their mischievousness and the amount of damage they are likely to cause. They are often right, too, for naturally, if a monkey is to be allowed the run of the house such things as the breaking of choice ornaments and pieces of china, and the picking to bits of antimacassars or portions of delicate needlework, are almost sure to happen. Like many other creatures, monkeys will follow the bent of their own inclinations, and are ever on the alert to "do those things which they ought not to do," and very seldom " do those things that they ought to do," and very seldom " do those things that they ought to do," and very seldom " do those things that they ought to do," and very seldom " do those things that they ought not hoosing a monkey as a pet, a male should be selected, as the lemales are often very objectionable besides being less hardy, and for obvious reasons, except for scientific purposes, the latter ought to be separately caged, if kept at all. Care likewise should be taken to obtain a young animal, as they get morose and treacherous as age creeps on them. A monkey which has been bept as a tame pet for years will prove no exception to this rule. When people find that their pet is getting sullen, they generally part with him for a mere song, and the individual who unfortunately speculates in one of these is generally disguited beyond hope of cure. Cheap monkeys are nearly always either old or else alling, and it is far better to go to a respectable dealer and pay a reasonable sum for a heathy young animal than to waste money in buying such specimens that are either moning or treacherous.

moping or treacherous.

We have often been asked—"Can monkeys be taught to perform tricks?" Well, the answer is that

first depends in a very great measure on the patience and expandibles of the instructor; whatever tricks are targets, powers: Indicase must be maintained the whole time the lessons are gring on. A moules about never be struct, even if it thing, as a blow is never forgotten by one of these creatives; kindness is the great secue; with these seminats. Given a good healthy young mankey, there are few more instructionand estimating pets.

Yasriestice.—The time frequently imported monkeys are the Guescons and the Macaques. The Gagnosis, from their usually rich coloration and their assectionate, and interesting ways, are flowuries associated, and interesting ways, are flowuries associated, and interesting vays, are flowuries associated and proposed the coloration of the people who are making their first essays is number-looping. They are all treated in a similar assumer and it is usually either a question of price or also of a personal predilection regarding the colour and appearance of one of the becies which decides white-noised Guenom (Correpthecus Patients).—Thus is a very gentle and active monkey, displaying great affection to those who take notice of it and treat it kindly. Some individual stailite being handled or in any way being interfered with. The sed and upper parts of the body and tail are olivered and the proposed and the present of the lower portion of the note and the upper parts of the body and tail are olivered to the colour. The usual price for this monkey is from set, upwards.

Green Guendan (Correpthecus calitimatual). egs. upwards.

egg. upwards.

Green Guennon (Cercepithecus callitruchus).—

A species very rich in coloration; the head, body, and the outer surface of the limbs are a very beautiful yellowish-green, the hairs being annulated with yellow and black; the under parts of the body, inner surface of the limbs and the throat, white tinged with yellow along the median line. There is an orange tuff at the tip of the tall. From sos. to 25s. is the price charged for this species.

of the limbs and the throat, what tinged with yellow along the section line. There is no range tuff; at the tip of the tail. From sox, to ag., is the price charged for this species.

Machaquesa—Of these the commonest are the Bengal Macaque (Macacus vhasus) and the Bonnet Macaque (Macacus vhasus) and the Bonnet Macaque (M. suncus). The former is a greyish-brown colour with yellowish-white underparts; young examples may be distinguished from their elders by the Sesh-colour of the callosities, which redden with age. The Bonnet Macaque is physicous-brown on the body; the exterior suifaces of the limbs are greyish. The cost of either is from sox, to gar.

Marmocats.—She dealers advertise a small "smokey that will go in a pint pot"; a description they give to the Marmocat, the body of which is a trifle smaller than that of a rat. Heing extremely quiet and quaint, it is preferred by some people, particularly those of the weaker sex, to the larger monkeys, as the soft wouly fir makest inuch resemble a young kitten. The fur is delicately soft and bushy, and is ornamented with blackish-brown stripes upon a ground of deep tawn. The tail is annulated with two turts of white hair, one over each ear. Marmosets cost about sy. Insects and fruit form the det, both of which are plentiful enough during the summer but in the winter are difficult to maintain a constant supply of. It hardly matters what insects are given, cateribians (not the hairy kinds), files, moths, butterfles, needworms, cockroaches; spiders are also relished. The furt should be quite ripe. Bread and milk, if not alongy, may also be given occasionally.

Caguchins.—The Capuchins of South America are analogous to the Guenons of Africa, and the one meet to make the substance. The Euglichins.—The Capuchins are more delicate shout the Capuchins are more delicate than the Guenons and ought tashe kept in a warm room.

Feeding and Management.—The details of feeding Mangabays are in every respect the same as for the Guenoms, but the Macaçues are, more voracious than their relations and a more them supply of food saust be given; bolled rice, add bits of bread and vegetables (carrots, potatoes and onitons, pea-four and mest may be mixed into a kind of pudding and a tinful given each day, morning and night; nuts, peas, maine, may carrots, applies (elicodicare all reliabled. Dates, figs and grapes may be criven as luxuries. given as luxuries.

are all related. Deep, against any beginning are all related. Deep, against a property of the cheek-pouches, which, when full, give a very peculiar repearance to the face of the animal. A Genon on being offered a nut or a portion of fruit from a large beg of food will pouch whatever is given to him until the fouches are full or else that the person causes giving, and will alot commence eating before all chances of receiving further supplies are ended. Most of the Genons are fairly long-lived in captivity, their span of life averaging some seven or eight years, but instances are known of some individuals having lived double that number of years. They are mostly good-tempered one towards another when several are kept in one cage. Of the two species named the Green is the harder and it bears our climate very well, rarely, if ever, alling anything, Both are very playful and engaging during their youth, but, like nearly all other monkeys, become victous tand morose as they get old. If the cage is small it is a good thing to let the monkey out once or twice, a day for exercise, but the doors and windows of the room should be kept shut and small ornaments removed, as the long tall of a Genon is a very awkward weapon when flourished about, and would castly knock a valuable vase off a bracket or the mantelpiece in spite of the monkey trying to be most careful when jumping about. Half-an-hour is quite long enough at a time for a monkey to be away from allowed the sum of the state of the state of the state of the careful when jumping about the should never be left alone or out of sight for a single instant, as, however quest and inoffensive it may appear when closely watched, a monkey can never be trusted not to take davantage of any opportunity that may present itself.

The Macaques are not so suitable for the swenges.

watched, a monkey can never be frusted not to take advantage of any opportunity that may present itself.

The Macaques are not so suitable for the swerage minded pet-keeper as the Guenons, as although they are interesting in many ways and serve to widen cheer experience of monkeys, they cannot be relied upon. Their tenper and equanimity may be perfect one moment, and the next they are transformed into veritable little fiends. No monkey fikes being teased, but these are nearly as resential as the Baboons, and a bite from them, if they get near enough to their aggressor, is a serious matter. Another reason—more important in many ways—is that they gre not suitable pets where young children are, as some of their actions might not be approved. When quite young they are very amusing and can be taught many little tricks—in fact, the performing monkeys seem in circuses are usually trained Macaques.

Cases—The carp for an ordinary monkey should be at least 4 feet of 5 feet lang and correspondingly high and fired. A door should be placed at each end to enable all parts of the interior readily accessible when the cage requires cleaning. Stout galvanised wird netting of 1½ in, mesh is as good as anything for the front, with a wooden moulding strip nalled over the edges to finish off and improve the general appearance. The internal fittings need not be either complicated or conty; merely two or three food dishes, a swinging perch, and a looking glass fremed in stout wood. If the cage is intended for Marmosets, a sleeping-box is an advantage, 11 can be placed at the top of the cage, a stout bough of a tree connecting it with the floor and thus gring the finances of the cage with ashust, and others as only hay; whichever be used must be changed every day and the cage floor theroughly brushed down, and once a week scrubbed out with a strong ministees of sood and water.

#### DORMICE.

Amongst the smaller mammals the different kinds of European Dorinice are great favourites not only with children but also with "grown-ups."

Warleties.—There are three species which may, as a rule, be readily obtained from dealers of hvestock. These are the Common Dormouse (Muscardinus teellanarus), the Squirrel-tailed Dormouse (Clus esculentus) and the Garden Dormouse (Clus esculentus) and the Garden Dormouse (Humps puercinus). All are within reach of the humblest perceper, the first-named costing about 2s. 6d. and the others from 4s. 6d. to 10s. 6d. per pair, according to the number in the market. The Common Dormouse is too well-known to need any description. The Squirrel-tailed Dormouse is a very pretty little creature; the coloration is ashy-grey above and white beneath. It is considerably larger than its common relation, being about 6 inches in longth without the tail, which is another 5 inches. The Garden Dormouse is not quite so big, being only 8 or 9 inches in total length, of which the tail is between 3 and 7 the colour is brownsh rather than achy above, with which is extended as a stripe below and belind the ears; the tail is tipped with black above and white beneath.

Cages.—Most people make the mistake of keeping doranice in cages which are far too small A cage for the common species or glit not to be less than 48 inches to a inches long, and proportionately high and broad, whilst for the Squirrel-tailed Dormouse it should not be less than 5 feet long by 4 feet high and 3 inches wide from back to front. The latter species, when awake, is a remarkably active creature and its constantly on the move, jumping and rumning about all over its cage and is quite as lively as the animal from which it takes its popular name. All the Dormace are arborred in their habits, and provision ought to be made for this; in the smalls-are cage one small tree branch is sufficient, but in the one for the larger species two or even three may be necessary. The seeping-loss—a most important adjunct for these little mammad—scholt often spenil nearly are out of the twelve months of the wear asteep;—should be placed at the top of the cage in such a position that it can be readily got at to inspect the interior nowand again without the cage should be covered with june sawdust, this need not be thickly spead as domine are very clean and make hardly any mess at all. If he sleeping-loss may have a layer of sawdust and then be loosely hilled with lay moy, and wadding. Access to the lost as given by having one of the branches so arranged that it leads from the flood to the entrance. With small rodents like these which can squeeze themselves through the minerage and a domine are covered with plan rodents like these which can squeeze themselves through the morrison of a door of cactiside of the cage and another at the top remarkely to the entrance. With small rodents like these which can squeeze themselves through the morrison of a cactiside of the cage and another at the top near the contract of the cage and another at the top near the contract of the cage and another at the top near the contract of the cage and another at the top near the contract and these covered with plane as doe.

wres at all and the front of the case may be glazed with fairly stout glass; if this be done ventilation must be provided by having a 6 fich square cut at the bottom of each side of the cage did another at the top near the centre and these covered with perforated alno: these, of course, may be made as doors.

Feeding and Management.—Donnice should be fed regularly twice a day on bread and-milk, ints, biscuits and fruit. It is best to shell the nurs so as not to give the animals too much practice in nibbling in case they turned their attention to the woodwork, of the cage. Hazels, walnuts, acoms and clestnism may be freely given and the Squirrel-talls are especially found of chestnuts. Water should be libera''n supplied. If kept in a warm room and food abundantly provided the chances are very much in favour of the Dornice not hitsemating, but they will get corpulent just as if they were preparing for a long winter st.pp. I was in ignorance of this fact that led a pet-keeple, who had recently acquired a solltary male at the latter part the autumn and who was not aware of the sex of his pet, besides misunderstanding the motive, carefully to perpare a very special nesting-box daintly lined with best white cotton-wool; he then auxously availed developments, but, like the followers of Joanna

Southcote, he watched and waited in vain I of more than one pair be kept in one cage quarrels are sure to arise, and an additional advantage in keeping only a pair of the Squirrel-tailed species is that there is every probability that they will ireely produce young in a cage of the diamensions given, often twice a year. Gentleness is a sine giac non with all Dormice as, although purnacious, they are extremely nervous creatures, and no one can so the sixully keep them who is not both gentle and patient. They get very tame and may salely be let out during the evening for a scamper round the room; they will tearlessly climb all over their owner, and jump comparatively big leaps for their size from one article of furniture to another. For young people there are very few of the smaller European animals that are more suitable as pets than these graceful creatures, not only because they are comparatively inexpensive to purchase, but also in that they are so little trouble to look after—a very important matter in such cases where there may be a tendencydor the novelty of laving them to wear off after a short time. Just a final word of warning; should any of my readers possess an example which commences hiternation in earnest, it should, in our curcumstances, be interfered with, or roused from its winter sleep, as such would in all probability prove fatal.

#### LIZARDS.

Under the popular name of Lizards are classed by naturalists an extremely large number of species and varieties showing great variability and a very wide geographical range. By the modern classification the Lizards (Autosauri or Lawritha) include the ancient Geckos, which are practically cosmopolitan, and the African Chameleons and several other fainthes. The true Lizards, however, are the Lacertide, and these alone number upwards of a hundred species. It is unpossible here to go into the natural second out the differences which exist nor would it serve any good purpose to do so. All that is proposed is to refer to several species which have proved adaptable to a life of confinement and which, therefore, may be kept as pets.

Even our native Lizards are of considerable interest and some of them make pretty little pets. The Common Lizard of this country is a species with a very wide range—extending in fact, through Northern and Central Europe and Shepal to the Saghalien Isles. To Ireland it is a speciesy interesting species maximuch as it is the only reptile found in that country—another injustice to "Onld Ireland." One of the most curnous and interesting hings in connection with the Lacertita is the capability of reproducing a tall should this organ, as it very frequently does, get broken. Present-day Naturalists do not, however, regard such a reproduction as a true tail, as it is wanting in several essentials. The marvellous regenerative power is centred in certain cells found in a transverse septum of cartilage and is eretained throughout the antinal's life. An excellent example of this tail-brittleness is found in the common, useful, and much persecuted Slow-worm (Angust Fragust,), which is in reality a legiess Lizird and not a Snake as commonly thought, and whichthrough ignorance is killed as being harmful to man, while in reality it is not merely incapable of milictup farm but is a most useful reptile, destroying vast quantities of sualis and slugs, and therefore should be preserved rather than killed.

Yarieties.—Some of the common species will do very well in capubity—the Eved-Lizard for example—

Yarleties.—Some of the common species will do very well in captivity—the Eyed-Lizard for example—and moreover live for ten years and more: others, like the exquisitely coloured Green or Emerald Lizard found in Jersey do not live very long. Most of these reptiles when kept in captivity become remarkably tame and exhibit in some cases an intelligence that one does not as a rule associate with the Reptiling generally.

Lizards, generally speaking, lay white or creamy eggs, having either a hard or a tough soft shell as in our native Lacerta vivipara and the exotic Chameleons.

With somespecies the eggs are not laid until the embryos are absolutely ready to emerge; while yet others—L. vrvipura and Anguis fragitis for instance, two of our native Lizards—are viviparos. In those cases in which the egg containing the embryo is especially hard Nature has provided the embedded reptile with a means of freeing itself. This it does by means due tooth-like process on the snout. We will now enumerate a few of the species that may be kept in various ways, though some little care is needed in the selection of species to live together, ore will be a case of survival of the fittest.

Blue-Tongued Liszard (Tiduna gyaza)—Belonging to the Skink family is a pretty but large Lizard whose chief characteristic is suggested by its popular name. An adult measures 20 inches or 50, and therefore a sutable-bized upartment must be pro-With someospecies the eggs are not laid until the

therefore a suitable-sized apartment must be provided. Unfortunately this Lizard cannot well be kept vided. Unfortunately this Lizard cannot well be kept in a room whose temperature falls below about 65 degrees. Its case should be located in a sinny place and a retreat, made of a piece of bark or of virgin cork, should be placed in one corner of its apartment. Slugs, snalls, with now and again a little raw beef cut up, will be suntable food for the reptile. It should also be supplied with water and a 3-inch layer of sand should care the angument floor.

should over the apartment floor.

Common Chameleon (Chameleon vulgars).—
Quite one of the most remarkable of all the Lizards by Quite one of the most remarkable of all the Lizards by reason of its ability to change its colour according to varying moods, to inflate its body, and to subsist for so long a time without food that it was commonly asserted it lived on air. Another remarkable feature of the Chameleon is the one extensive longue by means of which it secures its food; while yet another is the eye structure enabling it to see in every direction without moving either its head or its body. Again the long test is prehensile. Although extremely interesting the Chameleon is somewhat troublescene to keep in winter as its outserform must be wormed. In summer this for as its quarters must be warmed. In summer this is as its quarter's must be warmed. In summer this is unnecessary, The case in which it is kept should have a warm and sunny aspect and at one corner a slight shelter should be afforded the tumid reptiles. The food best suited consists of cockroaches and other small insects, including files. In size this Lizard measures when full-grown about 1 foot. It should not be kept with other species; and although this reptile will not take water from a vessel it will do so if the

will not take water from a vessel it will do so if the fern-case in which it is kept be gently sprayed Braerald or Green Lizerd (L. viridit).—Beautiful though this species undoubtedly is, it cannot generally speaking be recommended as one to be kept in captivity. Emerald green is the prevaling colour of the upper surface of this Lizard, which measures in the case of males in denches or 37 inches in length, the majority of it being tail. Beneath it is yellowish, while the throat is blue, or bluish in the case of males in the breeding season. In its native habitant it prefers rocky olders. breeding season. In its native habitat it prefers rocky places. Like many other Lizards it will eat insects of various kinds (including butterflies) snails, and earthworms. It can be called a British species, as it occurs

in Jersey.

Byed-Lizard (Lacerta occilata).—One of the most satisfactory species to keep in confinement, but on account of its voracity it is best placed alone in a greenhouse. After a time this species will get very tame, so tame as to take proffered food from the hand. greenhouse. After a time in species will get every tame, so tame as to take profitered food from the hand. Mice, earthworms, cockroaches, etc., may be given to this Lizard, which is some 20 inches to 24 inches long. The popular and specific name has been bestowed on account of the ocelli, or eye-spots. In colour this Lizard is green above and often exquisitely reticulated with black. Beneath it is greenish-yellow; while at the sides are numerous blue, black-edged. For the wind account for its specific and popular names. The males attam a large size—2 feet and store in length, and assume their most beautiful coloration at the breeding-time. This species retures for the winter, burrowing into the soil in late autumn to energe with the fine days of the returning spring.

Prickly Lizarda.—By

Prickly Lizarda.—By

Prickly Lizarda.—By

Enter the spun-like processes covering their body. They are, however, less formidable than they seem;

indeed they are classed as gentle reptiles that will bear handling with impunity. To the majority however, they are not likely to appeal, more especially too as they are somewhat expensive. The Derbian Zonure (Zonurus derbianus) is one of the best of the group. Like some other Lizards this species is capable of taking long fasts. The food most acceptables to it consists of mealworms, small bettles, and grubs; while a vessel of water should be supplied in its case. As in the case of the Blue-Tonyued, its case should be while a vessel of water should be supplied in its case.

As in the case of the Blue-Tongued, its case should be
provided with a snug retreat; the floor of its apartment should also be covered with sand. It may be allowed to hibernate in a box or other receptacle con-

tanning leaves, but this must be kept in a room in which there is a first in must be kept in a room in the think there is a first in the think there is a first in the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the think the excellent eyes. It measures from 10 inches to 1 foot or more in length, and though there is a slight tapening towards the tail it is of almost uniform thickness. On the upper surface it is brownish-grey, with a metallic sheen; beneath it is black, but the colour is variable. The young are silvery-white above with three black lines, and black beneath Except the gravid females, these repulses like the slade. They feed on snails, earthworms, and slugs, and hibernate in burrows in the soil. The food should be given alive.

**Viviparous Lizard** (L. vivipara).—A very variable species in which the female is larger than the male. The colour is brown or reddish above, with darker or lighter spots, and occasionally there is a dark yellow-edged band at the sides; beneath the male is orange or even red, and the female very much paler. I room 6 inches to 7 inches would represent the more in length, and though there is a slight tapening

paler. From 6 inches to 7 mches would represent the length. The young are under 1 mch when born and are left by the parents to shift for themselves. Green-fly and similar succulent morsels will provide them with food until they are capable of taking food similar to that given to the Eyed-Lizard. This species lubernates in autumii.

Inhermates in aintumi.

Wall Lisard. (I... murdis.).—Another very variable species which derives its popular name from the fact that it has in some of its native habitats a partiality for walls. Though resembling the Common Lizard it is a in. or 3 in longer and has a fine tapering tall, while that of its relative is for a greater part of its length of equal thickness. It requires similar treatment to the Common Lizard, and is very partial to graden worns. This species also occurs in the garden wornes. Channel Islands. This species also occurs in the

Channel Islands.

Housing, ato.—To those who can afford to purchase ready-made one of the delightful little vivaria that are on the mattet, the problem of how best to accommodate these Lizards which cannot be allowed the run of a warm green house, might be readily solved. Necessarily, however, these are somewhat expensive, and it is not at all unusual for those who go in for Lizard-keeping to rig up a suitable substitute therefor our of a box, affixing thereto a thick glass front and door guade of perforated zinc. Such a home-made structure would necessarily vary as rezards its dimensions with the particular species as regards its dimensions with the particular species that it is desired to accommodate. So far as the species that it is desired to accommodate. So far as the species deale with are concerned, a vivarium that would be suited to a reptile of the size of the Eyed or the Blue-Tongued Lizards might very well be 4 feet long, a feet high, and 2 feet wide. The bottom should be thickly strewn with small shingle or sand and a retreat at one corner should be fashioned out of cork, bark or something similar. A small tree-branch would also be a useful addition. Generally speaking the Lizards are sun-lovers and therefore the vivarium should be a circuit that it grets a such as nearly and should be so that it grets a nucle as nearly and the should be so that it grets a nucle as nearly and the should be so that it grets a nucle as nearly and the should be so that the state of the should be so that the state of the should be so that the state of the should be so that the state of the should be so that the state of the should be so that the state of the should be so that the state of the should be so that the should be so that the should be so that the should be so that the should be so that the should be should be so that the should be should be so that the should be should be should be should be so that the should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be should be sh

the Lizards are sun-lovers and therefore the vivarium should be so situate that it gets as much as possible. Faciline std.—As the favourite food of the different hizards enumerated has been given when dealing with them specifically there is little need to refer to it specially. Still it may be as well to state that clean fresh water should be provided in a pan, for though it is not unusual for these rephiles to abstain from taking it for a long time on end, yet it is a

necessity for them.

In the enumeration of species we have not included the locally distributed (in this country) Sand Lizard

(Lacerta Agilis), for despite every care and many trials rith it, we have not found it a very suitable one for a life of capitity. It is larger and bulkier than L. wivipara with which it is sometimes confused and shows considerable colour-variation, the colours of both male and female being more subdued after the breeding season is passed. Vivid green is the groundboth male and female being more subdued after the breeding season is passed. Vivid green is the ground-colour of the male at that time, especially on the sides, where it is also dotted with black, and has whitish eye-spots. Beneath it is yellow. The female is a combination of grey or dark-brown with rows of white centred spots. This Lizard is very common in parts of Surrey and Dorset. It may be stated that those wishing to catch Lizards in their haunts should never attempt to do so by the hand. They proper way is by means of a thread-noose attached to a thin, pliant

#### TORTOISES.

Nearly everyone in large towns is familiar with certain species of Land Tortoises which are sold by wily thierant merchants as useful aids to the by wily thinerant mershants as useful nids to the gardener, who, unless he be something of a naturnust, alas soon finds that he has been imposed upon, and that histead of eating the luscious slugs with which his soil abounds, the tortowe prefers his succulent settuces and tender cabbage plants, not to mention his strawberries. The Water Tortoises, however, are with few exceptions carmivorous, and this must be borne in mind when making provision for the respective needs of the members of the two families Testindiata (Land Tortoises), and Emyddae (Terrapins, or Marsh Tortoises). Generally speaking, it is the former which are favoured by the pet-keeper, and interesting creatures they are in capitify. They are usually on sale in summer arriving here in vast interesting creatures they are in captivity. They are susually on sale in summer arriving here in vast numbers, though whither they go has long been a problem. In other countries than our own it is the custom to eat them and they are said to form very dainty morpels. It is astonishing the time these Land Tortoises will live in a state of captivity if they are but intelligently treated in the way of food. Nor are Leythe dull, stupid creatures that at first blush they would seem to be: on the contrary they soon become rairly tame and readily recognise the hands that feed them. The name Tortone is a peculiarly appropriate one, having been bestowed on the group on account of their twisted legs.

#### LAND TORTOISES.

Warletias.—Those best suited to a life in captivity are natives of Europe, the most familiar species being Testindo pracca, T. mauritanaca, and T. margitanaca, the first-named two lawing reference to their country of origin and the last and largest to the extended hind margin of its octapace. The Greek Tortoise may be differentiated from its two alites by its long tail having a "claw-like end: while the Boorisis Tortoise has, like T. margitanaca, but a single plate in the tail vicinity and a plastron which is movable behind, as against the immiovable plastron and double tail-plate of the Greek Tortoise.

Managements.—If the Tortoises are to be kept in the garden they must be restricted by some means, or they will do a lot of damage. The position assigned them should be a sumy one and preferably bounded by a wall. It is then quite easy to rig up with boards, or a box from which an crul has been removed, a com-

by a wall. It is then quite easy to rig up with boards, or a box from which an end has been removed, a comfortable retreat from bad weather, and especially if a framework on which some Willesdem Canvas has been stretched well covers the retreat, thus pratecting it from rain and scorching sun. Occasionally, one sees the Tortelse restricted by means of a consistant of the content 
through a hole made in the hind margin of the shell. This will not appeal to the majority. Of course if the Tortoises can be allowed the liberty of a warm greenhouse and as, fed properly they will not hibernate. Moreover, too, assuming that a pair have been kept fand this is better than keeping a single one), the probability is that eggs will be laid. In that case they should be placed in some moust sand on a frame generating a nice moist heat of 75 deg. to 85 deg. Fahr. In that case they should hatch out in two months or a little more.

In the event of one not having a suitable green-house m which the Tortoises can be housed in winter, they should be allowed in autumn to bury themselves in the ground, marking the spot that they have selected. Or again they may be taken and placed in a box containing soil or leaves and stowed in a cool room until spring, when they will awake from their torpor and soon commence to feed, though not very

Foods.—The best food for Land Tortoises consists of lettuce, cabbage, grass, dandelion flowers and the flowers of buttercup; while it also exhibits a partialty for strawberries, currants, and many other garden plants.

#### MARSH TORTOISES.

These are very much flatter than their land congeners, and are, moreover, provided with webbed feet to suit the partial aquatic life that they lead. To keep them wholly in water, however, is suel for they are also most capable walkers.

also most capable walkers.

Emys Orbioularis (Syn. E. Intaria), the

Emropuan Pond Tortoise is the commonest species
kept and is variable as to colour; there are two types,
radiate and sported, in the former of which the

colours radiate from the centre. Adult specimens

measure from 5 inches upwards to 6 inclies. To watch

this Tortoise stalk its prey, whether fish or frog; is most

interesting. In a state of nature they feed in the

water, but when tame they will take food on land.

These Pond Tortoises make a curious shall noise at

preschire time. The certains of the procedure than the best of the stand but These Pond Tortoses make a curious shiril noise at breeding time. The eggs are deposited on land, but the young are very difficult to rear. There is an American species—E. blandings—hack with yellowish spots, which is smaller than its European representative of the genus, that is said to become very tame, although we have had no expenence of it; it prefers land to water and is a very distinguitive Tortoise, with head black above and yellow beneath. Cleannys thereas the office of the distinct of the control of the sister of the part of the pure of the part of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the pure of the p

here, but on account of its "hshy" odour cannor or recommended as a pet.

Food and Management.—As previously suggested these are in the main carnivorous, feeding upon worms, newts, fish, frogs, and various insects: while in capitivity they may also be provided with naw meat, small birds and mammals. Generally speaking they do not exhibit the same intelligence as the Land Tortoises, seeming to avoid rather than to seek man. Where one can furnish these creatures with a small cannot duck-weed-covered pond, with a bank on sunny, duck-weed-covered pond, with a bank on which they can lauf to "sun't themselves, this shoul.1 be an ideal spot. Such a pond, however, would need to be surrounded with wire-netting or the Tortoise would "stray." Provision should also be made of a would "stray." Provision should also be made of a suitable place in which they cm deposit their eggs should they wish to do so: a nuce light, sandy soil would be excellent. They should be allowed to hibernate in a box of moss and then be stored in a cool frost-proof place until the following season. If one can give them plenty of suitable food, and a warm greenhouse having a pond in which the water can be kept chilled, or one of the vivanums making provision for this latter, these Marsh Tortoises will not hibernate.



# Pears' Ready Reckoner

### From One-sixteenth of a Penny to Twenty-one Shillings

In the following tables any number of articles, separate weights or measures, days, weeks, months or years—from 1 to 5,00-—are reckoned, at amounts from a sixteenth of one penny to one guinea, in individual sets, each table being complete in itself. Up to 20 each number is worked through progressively in the shorter tables on this page; then follows 25—as a quarter of a hundred, and every multiple of ten next in order, with 52—as the number standing for the weeks in a year, interpolated in its proper place.

In the longer tables—from the next page to the end—every number from x to 100 is reckoned out. Beyond the number 100, the figures standing for multiples of dozens up to the gross (144) have a line each, as has also 112, the number of pound. in a cout.; with an entry for 365, the number of days in the year, breaking the even hundred progression; and one at 2,240—for the purpose of showing at a glunce what the cost per ton comes to of anything priced at the amount per pound shown by the table—inserted between the 2,000 and 3,000.

The reckoning for every possible combination of whole numbers can thus be readily arrived at where not expressly given, by adding together the items indicating the values attached to composing numbers. Thus 3,366 articles at one-twelfth of a penny each would come to the total of 3,000+300+60+6, or, as will be seen, £1 os. 10d.+2s. 1d.+5d.+0\dd., an aggregate equalling £1 3s. 4\dd.

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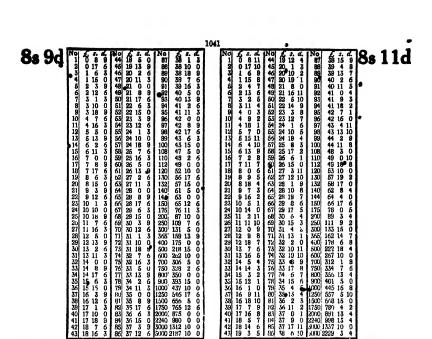
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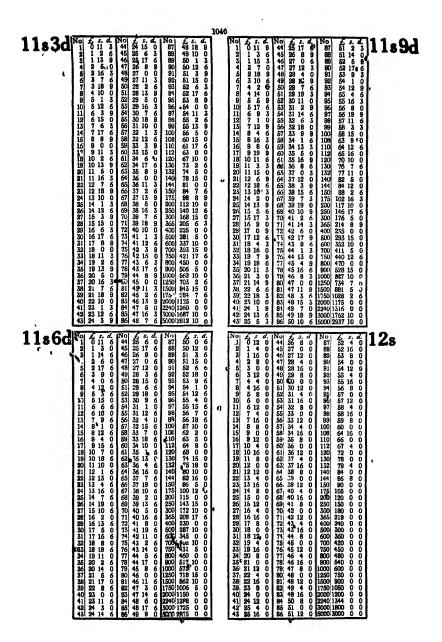
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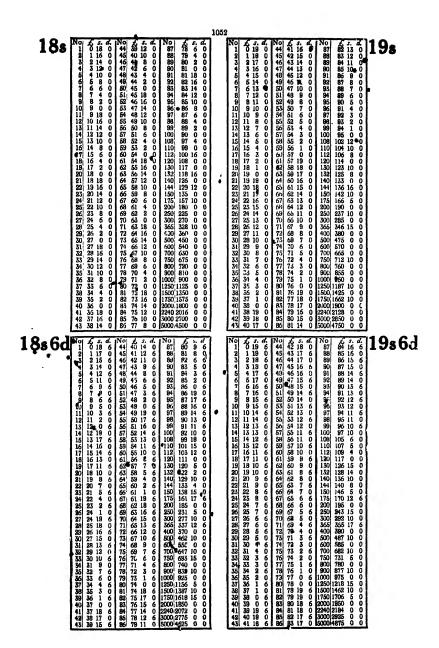
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# THE SCIENCE OF SOAP

AN EXTRACT FROM A LECTURE ON HEALTH.

# · By ANDREW WILSON,

Ph.D., M.B., F.R.S.E., F.L.S.

Lecturer on Physiology and Health to the George Combe Trust and Gilchrist Trust Lecturer. Author of "A Manual of Health Science," "The Modern Physician," &c.

Dr. Andrew Wilson is acknowledged to be a feading authority on the Science of Health. Not only has he studied the science deeply, but he has an almost unequalled knowledge of the subject in its manifold practical bearings, as his numerous lectures and writings effectively testify. Therefore, anything that he may have to say on so important a theme as Soap cannot fail to be worth reading.

proportion as we attain and maintain cleanliness universally and abolish dirt, we prevent disease, save hic, and promote the happiness of mankind. Clearly soap, as a means of Saintary grace, is not to be lightly esteemed.

It is the foe of the microbe and the enemy of disease, and the Soapmaker's labours may therefore, in a very real sense, be said to run in parallel lines to those of the sanutarian's work and of the doctor's practice.

[&]quot;The Great Civiliser." Soap has been termed "The Great Civiliser." In respect of the fact that its use implies freedom from dirt, it might with equal justice be termed the harbinger of Health, seeing that cleanliness sums up in a single word the essential condition which underlies all hygienic practices.

[&]quot;Cleanliness" of body, of garments, of surroundings, of houses, of drains, of food, of air and of water, represents the aim and end of all health-teaching. In

The Parsonal Side of Cleanliness. Leaving the purely domestic and disinfectant uses of scap out of sight, the personal side of the cleanliness question may be said to offer a very interesting study in connection not merely with the preservation of health, but also in respect of the promotion of what one may term the aesthetic side of life. Health implies beauty and cleanliness is the foundation of both. While the care of the skin naturally falls to be considered as an all-important element in health-culture, such care, implying the wise selection of a soap, nust naturally include the making of most of what personal attractions we possess. For the relation of skin-health to soap is much closer than is usually supposed.

Soaps to be Avoided. Crude soaps, coarse soaps, or those impregnated with deletenous colouring matters, are too often the cause of skin-troubles often of an intractable kind. Then, we have to distinguish between medicinal soaps intended for the cure of skintroubles, and those intended for toilet use: a distinction, this, of great importance. Soft soap is an excellent cleanser of woodwork and other things; it would ruln any skin to which it was applied. Medicated soaps are useful in the har is of the physician; the healthy skin requires no drugs applied to it, any more than the healthy stomach demands the continuous administration of drugs. . Thus we see there are soaps to be avoided for personal ue; in health, just as there are others suitable for daily employment by way of promoting the welfare of the skin.

The Relationship of Soap to the Skin. It behoves us, in order fully to comprehend the relationship of soap to the skin, to consider briefly what the skin itso. is. No knowledge of any bodily function can be complete or satisfactory which is not founded of an appreciation of the nature of the organ or part with whick we are dealing. Popularly regarded, the skin with many people stands simply for a body-covering. It is very much more. It is in truth a somewhat complicated structure or tissue.

It consists of "two chief layers, the outer skin, "Scar!" skin or "Epidermis," as it is named, and the under skin or "Dermis." There are other layers included in the skin texture, but it will suffice for the present purpose to recognise these two main divisions. Most of us know the difference between the two layers.

Practically, in shaving, a man makes a clear distinction between them. If he kceps to the outer skin all is well; if, however, he kilows his razor to descend to the under layer, he soon becomes aware of one difference at least, if not two, between the skin-tissues. For when he cuts himself he draws blood and he feels pain, proving thus that, while the upper skin destitute of blood-vessels and nerves, the under skin possesses both. We discover on close examination that the outer skin is in fact a production of the more vital under layer. It is composed of microscopic cells which are produced practically on the upper surface of the under skin.

Skin Renovation. These cells do not survive long. There is a perpetual procession of them passing upwards in layers, getting drier and more scat-like as they ascend, until they arrive at the surface of the outer skin itself. There, as mere dried scales, they are worn off by the friction of our, clothes and by washing, their places being taken by other cells produced and pushed upwards in the same manner as were the lost cells.

We might compare this shodding of the outer skin cells to a process of "Moulting." The lower animals exhibit this feature at intervals or periodically; man is always moufting.

If such be the nature of the outer skin, that of the under skin or "dermls" is of a very different kind. The under layer is an organised structure, that is to say, it consists of living cells and is well supplied with blood-vessels, while the ends of the nerve-fibres, through which we exercise the sense of Such, end in little projections of the under skin-layer. When we touch anything, we therefore feel it by the nerve-ends in the under skin through the upper skin.

The Function of the Skin. The blood supply of the skin is very extensive. So fine are its bloodvessels that even the point of a needle must wound a large number of them. This distribution of blood to the skin leads to another and most important consideration, namely, that which teaches us that part of the skin's duty is to serve as an organ for getting rid of so much of our bodily waste which is the result of our bodily work. In fact, one might well compare the skin to a lung spread all over the body's surface. Physiologists will tell us that the lungs, skin, and kidneys form really a trio of organs performing similar work only in different ways, that work being "excretion," or, as it has already been termed, the ge ting rid of waste. Very much the same substances, but in different proportions, are excreted from the blood by all three, and it may be said in addition that the skin has a power of absorbing oxygen gas, so that in this respect it shows an approach to the lungs in the nature of its duties.

Miles of Sweat Glands. How the skin acts as a channel for the exit of waste is revealed to us when we discover in the deep layer numerous "sweat glands." Each is a coiled-up tube, the end of which passes upwards to open on the skin-surface in a pore." Around the glands are dense networks of blood-vessels, and it is easy to conceive how the waste matters can strain through their thin walls and so reaching the sweat-tubes he passed upwards to be discharged on the skin-surface as perspiration. Any interference of a serious kind with the skin-function. just noted results in disease or death. It would be quite possible to "suffocate" an individual by gulding his skin over with an impermeable layer, and this result actually happened in one case in which a child's body was covered with goldleaf, that he might take part in a procession at Rome. It is in the palm of the hand and sole of the foot that sweat glands are most numerous. Each little sweat-tube if uncoiled would measure about one-fourth of an inch, and the late Sir Erasmus Wilson calculated that in a single square inch of the palm, about 73% feet of sweat-tubing is contained. Similarly it has been calculated that in the whole body there exists 10 miles length of such tubes.

There are other glands in the skin called "sebaceous" glands. These supply a fatty matter, the use of which is to keep the skin supple. These glands are found also opening into the sheaths of halrs, and it may be supposed the matter they secrete represents a kind of natural pomade. When the tubes of these latter glands become blocked up with the fatty secretion, and the top of the little plug of fatty matter becomes coated with dust, we get what are called "blackheads" in the skin.

Soap and the Body's Health. All this thformation has an important bearing on the maintenance of the matter of slan and body alike, and incidentally, on the use of Soap. For the body's health depends to a large extent on the proper discharge of the skin's duties, just as the skin, in turn, sympathises very strongly with different bodily states. The skin is a regulator of the temperature of the body, through the blood, which is ever circulating through &. The production of perspiration and its evaporation implies loss of heat, hence the rapid cooling of the body after copiously perspiring. In Cold weather less sweat is produced, the loss of heat is diminished, and the bodily heat is then conserved. These facts enable us to understand what chil miplies, with its effects propagated by the nervous system to the lungs or other parts.

The necessit, for strict cleanliness in the matter of the skin and for the use of a pure soap becomes clear when we consider the functions of the skin-glands and their constant work in pouring out on the skin-surface so much of our bodily waste. Yet another fact must be borne in mind, namely, that the old skin-cells, which are always being shed, demand equally the acts of washing for their removal, and for this reason also it may be said, there ages the necessity for frequent change of our undergarments. The examines all round is therefore more than justified by all we can learn concerning the duty of maintaining the healthy action of the skin, and equally by what we know of the waste products our bodily covering given forth.

The Absolute Necessity of Soap Purity. A soap fit to use and such as can exercise no injurious effects on the skin must first of all be of pure quality. It must contain no deleterious ingredients and no objectionable of irritating co'ouring matter. To please the eye counts for nothing in the matter of soap; the great essential is purity. Next in order comes the matter of economy. Soaps loaded with water represent so much money wasted, whereas a soap in which the quantity of water has been reduced to the minimum must prove economical, because lasting. Crude soaps naturally arritate the skin, and in place of removing the skin-debris literally rasp off the cell-layers which are not yet ready for removal. Hence many cases of tender skins are to be attributed to the use of improper coaps, which as an authority puts it "should only be used for washing floors."

THE SOAP THAT IS ALL PURE SOAP. Many years ago, following the lead of Sir Erasmus Wilson, the late Mr. Startin, the famous skin specialist, Professor Redwood and others, I hore testimony to the purity and excellence of a scap, the name of which has become a suitable household word. I allude to PEARS' SOAP. For years the excellence of this soap in respect of its unvarying purity has been fully maintained. It owes its fame and reputation to its unchanging character, and to its non-irritating nature, and it is this latter feature which has made it a special favourite for nursery use. The delicate skin of the infant requires a soap of bland character, and PEARS' . BOAP fully justifies the confidence, which mothers and nurses repose in it. Again, it is an excellent detergent and removes dirt particles very easily, while from the point of view of economy, PEARS' s SOAP, as it has been well declared, is all soap and can be used till it has become of the thinness of a sixpence.

THE SOAP FOR THE COMPLEXION. Attention to the complexion is a matter which concerns everyone, and the value of a pure non-irritating soap in preventing the development of blotches is therefore to be regarded as a sine qud non for those who desire to maintain a fair skin. PERRS' SOAP is a necessary to the toilet of the fair, while it is equally adapted to the use of the sterner sex, and makes for shaving an excellent lather, not apt to irritate the skin as do many shaving soaps which contain potash. On these grounds PEARS' SOAP should continue to enjoy the confidence of the public, for no purer article of its kind has ever been offered to the people.

# THE SKIN AND COMPLEXION.

WITH SPECIAL REFERENCE TO DIET, CLOTHING, Bathing, and Cosmetics.

## By JAMES STARTIN

Senior Surgeon and Lecturer to the London Skin Hospital.

The charms of a clear, healthy skin, and its usual accompaniment, a fine complexion, are universally acknowledged. It forms one of the chief elements of beauty, and those who are endowed by nature with these beneficent gifts are indeed favoured; but if they wish to retain this beauty, they should give it their especial care.

. From the earliest period to the present time never was there an era when women did not try to make themselves beautiful.

The Care of the Complexion. The care of the complexion to a duty which every woman owes to herself and all parents to their children. Regularity of features and a perfect development of form are of little avail if the complexion is not good.

In fact, the complexion is the chief charm of beauty in our own race, for what finer complexions in the world do we see than those of our own countrywomen? Many seople grow careless of their appearance after a certain time of hig; no doubt the cares and troubles and worry in the race for life have something to do with this. We should be, therefore, careful to bear our cares and troubles with a healthy mind, and if we wish to preserve the beauty of our complexion, should take far more care in our modes of life and daily food. More than 2,000 years ago Xenophon wrote, "Men excaded a genuine complexion as most pleasing."

The Health of the Skin. The-conditions of life in which we live, as a highly civilised nation, exert a powerful influence upon the structures which combine to make up our organism. But perhaps their influence therefore, of the skin is an important factor in the prevention of most cutaneous disorders. The health of the skin is much the same as the health of our bodies; in such the same as the health of our bodies; in which it is a kind of joy to see, to touch, and to live. This is health. Yet the skin is apt to be looked upon and attended to by the majority of the community less than any organ of the body. It should not only be considered as r nere the skin is apt to be looked upon and attended to by the majority of the community less than any organ of the body. It should not only be considered as r nere covering to defend us from the effects of heat or cold, but as one of the most important organs of our body, without the constant activity and agency of which we must look for neither health nor long life, and n't the neglect of which in modern times lies the secret source of numberless diseases and evils that tend to shorten our existence." And from whatever cause they result, the morbid phenomena of eruptions of the skin show themselves at all periods of life, in every rank, and in all conditions of civilisation. But it is the working classes of the community who are mostly exposed to

theirinfluence, a d consequently it is mostly amongst the poor that the greater number of these diseases are found.

rine poor that the greater number or these diseases are found.

Dust and Dirt. The artisan in his veveral trades finds a fruiful source of skin disease in the dust and dirt in which he labours, other very irritating, and from the labours, other very irritating, and from the labours, other very irritating, and from the labours, other very irritating, and from their trades in the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the labours of the acridity and corruption of the juices will be the mentable consequence, and most dangerous diseases may ensue. A very common public error is that all disorders of the skin are contagious. Quite commonly servants

of the skin are contagious. Quite commonly servants and workpeople turn aside and avoid any one in the same service if affected in this way.

The Question of Contagion. Numbers of poor girls are thus driven into any asylinin to which they can gain admission, and the Union is the only place of reliuge from a prejudice most undeserved and unwarrantable. Men-servants also suffer too often by this uncalled for avoidance. The vicinity or even the bare mention of skin diseases seems to upset the equanimity of some people—especially nervous, weakminded individuals. But let me reassure them; for few eruptions of the skin are really contagious, and even those that are, are hardly ever seen by the public in an actual condition of contagiousness. actual condition of contagiousness.

If any further inducement were needed to urge us to the consideration of so important a subject as the care of the skin, it might be found in the risks attending an invasion of that terrible and devastating disease. A siatic cholera. Nothing that we can do is so likely

to preserve us from that dire disease—and indeed, from even disease of an epidemic or contagious kind—as a proper and judicious gare of the skin.

Eanitary Precautions. The instructions laid downthy our Sanitary Bracks for securing our country against cholera are happily so good, and they contain recommendations having reference to the maintenance of the skin in a state of cleanliness, warmth, and bealth; and it is only by a knowledge of the nature and functions of the skin that we can safely hope to accessed completely in effective this object. Northurstely. succeed completely m effecting this object. Fortunately, if there is one characteristic which distinguishes an English man or woman, it is the almost universal habit of cleanliness—the "love of the tub." Of this I purpose

speaking later on.

speaking later on.

**Skin Evuptions.** It would appear that, at first sight, skin eruptions in ancient times were either more frequent, or that the disgust with which they were regreded had a greater influence on the community & lage than is at present the case. At the period of the establishment of our royal hospidis (St. Bartholomew, Bethl'shem, and Bridewell), the leper, as the unfortunate individual was called who was afflicted. with a skin eruption, had a place allotted to himself, "to keepe him out of ye citie." He was in a munner confined to a district, beyond the bounds of which he dared not venture under the penalty of death; indeed, so severe was the law in such cases (leprosy having been held one of the five plagues under the Santary Code in most Europear countries, and I believe in our own), that anyone convicted of having had communication with a leper rendered his life a forfeit to the State. Common sense in modern times, however, has long since exploided the belief that the affection called leprosy is contagious in temperate climates After the Crusarles every disease of the skin became an object of suspicion, without discrimination or even a cursory liquity into its nature. Under the general denomination of lepers thousands of helpless wretches. denomination of lepers thousands of helpless wretches, whose only crime was poverty, were condemned to noisome imprisonment and banishment from all ties of friendship and kinslip. At that time the number of lizarettos in Furope amounted to 21,000, and we read that in Paris, in the façade in such a bidling, a gibbe was erected for such as dared either to enter or escape without permission,

Leprony. It may be interesting to state that the stee of St. James's Palace was anciently occupied by one of these leper-houses, and that the parks adjacent formed part of the domain from which it derived its support, until Henry the Eighth, in lisk kingly wisdom, converted this ancient charity men the palace, as it still continues. Still the same that the same that the continues is ancient that the same to the suffernity of the work of the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same and special departments in hospitals established for

their alleviation Character of the Skin. The soft yielding texture or integument forming the external covering or our bodies, well known by common designation as the our bodies, well known by common designation as the skim though apparently one membrane of evidently complex structure, in reality consists throughout its whole extent of three layers, which, besides performing the important office of protecting the parts beneath from injury, constitute at the same time the seat of the sense of touch and the organ of sensible and mensible perspiration; and we are here renunded of the expressive lines of Pope.—
"In human works, though laboured on with pain.

In human works, though laboured on with pain,

A thousand movements scarce one purpose gain; In God's, one single can its end produce,

Yet serves to second, too, some other use

The apparatus for cutaneous absorption, imbibition, as it is called more properly, the three Lyers, furnish also a locality for immercialle glands or bulbs, producing harr, and everywhere con ering the body adding so much to its softness and grace; a class of little cavities, which secrete the unctuous matters to lubricate the skin, called the sebarcous glands, and, finally, for

the sudariparous or perspiratory glands.

Functions of the Skin. Yet, with so great a variety of offices and parts, the extent and services of this interesting membrane are not confined to the outer

surface only, for the skin is found to be continued inwards at all the openings of the body, and to become the mucous membrane of the mouth, nose, throat, lungs, stomach, and other organs; so that the cutaneous surface may be said, like a circle, to have neither beginning nor end, but forms one beautiful investing membrane for the whole body, inside and out, which so admirably accommodates its services to the various so admirably accommodates its services to the various parts that perhaps no structure could be infagiled more illustrative of Divine arrangement, by combining unity of purpose and design with diversity of functional offices, and so gracefully adapting itself to the different and varied movements of the body, without wrinkle or inequality, as to have furnished Burke, in his essay on the "Sublime and Beautiful," with one of his happiest ullustratives. illustrations.

Sexistiveness of the Skin. Though the skin is so surprisingly yielding and delicate, it is well constituted to resist external agencies, which property is marvellously increased by education or habit; to the horry rain of the smith, for example, the dewdrop and the red-hot metal prove nearly innocuous in their action.

Yet so wonderfully sensitive is the organ of touch in the skin that in the blind, deaf, and dumb it has furnished a medium of communication which in minute. ness of perception has nearly rivalled, while it affords a

substitute for, the lost senses,

Whilst thus the skin may be said to connect each of us with the external world, it affords at the same time the safeguard and protection of the parts within, offering, according to their several necessities, great density of texture for a shield or defence, as before instanced in the hands and feet, or a delicate and wonderful tenacity, as on the hys and other crgans, whole exquisiteness of sensation constitutes the prominent function to be developed. The Fingers. The ends of the fingers may Hero

perhaps present themselves as seeming exceptions to this statement, but when we speak of the anatomical

perhaps present themselves as seeming exceptions to this statement, but when we speak of the anatomical arrangements of the skin we shall at once perceives increased cause for admiration of these facts, and wonder at the continuance for admitting free exercise of the sense of touchin parts so thackly-covered by cuticle. Of the three layers or divisions of the skin the girst or outermost, that which meets the eye, let the scarf-skin, the cuticle or epidermie; the scord, in which the coloring natter of the different human races is deposited, is called the rete-mucosim, or malpight (after its discoverer, Malpighil); and the tring is called the true skin, the cuticle, when separated by a blister or other incans from the living body, is found in all races of men, blacks as well as whites, to be a diaphianous, clastic, white or greyish-white membrane, rather darker, however, in the neggo races, and, from the grooves intersecting it, apparently reticulated, the outer surface being somewhat convex and poished from the oil matter thrown out upon it by the sebaceous glands or follicles, the inner surface concave, rough, and sregular, an appearance which, if regarded with slight infiguritying power, is found to arise from unioneous mall points or processes like the pile of coarse velvet; these are the hollow, tube-like continuations of the cuticle disping into the pores and incorpolatives of the skin or dernis. The commanions of the curice upping must be pores and negulatives of the rete-inucosim, the second membrane of the skin, and into the true skin or dermis. The third membrane, as it were, forms the medium of communication between all those parts and channels through which the hair, and sebaceous and sweat-ducts

through which the hair, and schaceous and sweat-ducts pass, each of these minute tubes or processes being like an inverted finger of a glove, the duct, hair, etc., perforating its apex something after that manner.

A Protecting Membrane. By a beautiful provision of nature the cuttele may be said to be septred varies, perfectly unsensible, which protects the more debuate parts of the skin and the organ of touch from nature.

Were our bodies without this covering, not only might any moximum but the could scarcely perform might any noxious week we crush in our progress produce lethal effects, but we could scarcely perform the common offices of life without risk. In our profession this protecting membrane daily and hourly carets its preservative influence; with this safeguard

Se can handle with impunity rat only deadly poisons, but sources of contaction themselves. Thus we see the advantage, nay the necessity, to our well-heing of bearing about with us an inanimate exterior, and can admire the wonderful wisdom of the Creator in this external adaptation of our bodies to the

We fow come to the question, What is the soundest stake or condition of the skin, or that which most contributes to it? and in its turn indicating a high state of health. It does not depend upon whether the person is of sanguine or billous temperament, of ruddy or sallow complexion, but whether the skin

exercises its functions in a proper manner. I will now endeavour to show you how it may, g The Management of the Skin. The con-ditions, therefore, necessary to maintain the skin in a ditions, therefore, necessary to minimum the skim in a sound and healthy state, to restore it when disordered, to second our efforts when engaged in treating some of the many eruptions to which it is liable, may be classed under three lieads—

1. That the body should be, if possible, well and judiciously nourished.

2. That no undue tax or strain should be put upon

3. That the skin be put under proper rules of management as to general liverenc surroundings, diet, clothing and exercise. The more exercise we

diet, clothing and exercise. The more exercise we take in the open air the better for our complexions; we do not take half enough, he hes especially.

Diet and Skin Health. Now with regard to diet I should like to say a few words, as the health of the skin is much influenced thereby.

In the first place, our fe d is in a double manner a source of warmin, by supplying the maternal requisite to balance the continual waste going on in requisite to balance the continual waste going on in the body, and, secondly, by conveying into the system tibes elements which by their clemical composition engender heat; and to ensure these results our food must be whole-some and sufficient, and must combine all the varieties, animal and vegetable, which are bestowed upon us, v.z., the aqueous, the albuminous, the saccharine, and the oleagnous. The first is necessary, and enters largely into the component pages of our body; the second, from our animal food; the third-from the vegetable; and the fourth, form both the later. Let me cive your a good maxim. the thirdy from the vegetable; and the fourth, form both the lawer. Let me give you a good maxim; Happy is the man who only eats when he is hungry, and dirnik when he is this sty!

Pariods of Taking Food. The periods of taking food usually adopted in our country, in accordance with convenience and recurrence of hunger, are

those which are best suited for the purpose of health, viz., the morning meal, the und-day meal, and the

The morning weal, or breakfast, should be taken between 8 and 9; the inkl-day meal, the dinner of our forefathers, the second breakfast of the French, the funch of fashionable life, is generally, said should be, taken between 1 and 2 o'clock: and the evening meal, the supper of our forefathers, she dinner of the present day in fashionable society between 7 and 8 o'clock.

Among the ancient Greeks the three meals of the day were called the "anston," the first, or morning meal, taken at sunrive; the "deipnon," the chief meal, dinner; and the "dorpon," the evening or sunset

meal, supper.

The Athenians took meals as the French, and they called them "ariston" and "deipnon," excluding the "dorpon," and sometimes the "ariston" was regarded

Quantity of Food. As regards the quantity of food to be taken at all times, no doubt it is best to err food to be taken at all times, no doubt it is best to err on hie side of moderation, and I have no hesitation in cohiemning too great a variety at a single meal, however much varietion of due may be useful. A variety of dishes is simply an injurious device for owner, before I commence referring to special articles of food, let me arge upon you the great importance of regularity of meals and sufficient time to eat them. Upon this rule depends to a great extent our health. Irregularity in this respect, produces, as you know, indigestion, dushing of the skin, and one of the most disfiguring eruptions, and that on

the face. It is not all red faces and red noses that proceed from strong drink, though many do.

The diet for anyone who suffers from an eruption should be fairly good; above all, the day should be commenced with a substantial breakfast of light food, but not with hot great unant as the substantial breakfast of light food. but not with hot roast meat, as is the custom with some persons: the stomach is not able then to digest it. Fish, boiled bacon, eggs occasionally, cocoa or cocoatina, coffee for some, tea for some, for few persons are able to digest the same things—some coffee, some tea. Some take porridge, but my experience shows me it cannot be taken regularly south of the Tweed. It is much too heating in the south of England: indeed, I have seen eruptions caused by eating it, especially among children.

aniong children.

Bewerages. Now milk is a mixture of the four staminal principles of food that I have mentioned pefore: in it, therefore, we expect to find a model of what an alimentary substance ought to be. Some cannot digest might; then I recommend them, to take sodawater with ht. It forms a very suitable portion of our

daily food, therefore.

daily tood, therefore.

Coffee. Coffee, if properly made, is a wholesome beverage, but it requires making. It, the berry, of two or three kinds, should be freshly roasted and ground, and thoroughly holling water passed through it before it is required. Those of you who know this must know how vastly different it is to the stuff called coffee, as it is bought, and often mixed with that wretched drug chicory.

drug chleory.

Tas. I tea be preferred it should be made with some variety of juire black Ceylon, India, or China tea not green. A correct infusion it made by fourning boiling mater upon the tea and allowing it is stand from two to five minutes at the most. Let us urge from two to five minutes at the most. Let me urge you to try these methods, and I vouch you will not be

you to try these methods, and I vouch you will not be disappointed.

Solidas. For solids, variety is best—not eggs and bacon, bacon and eggs every inorung, or eggs alone, as they are too inhous to take regularly. Take fish (not kippered fish) one inorung, boiled bacon another, it is almost as good as cid-liver of to weak persons.

Most fasting. The rule is, therefore, our food should be fair in quantity and good in quality, but light. A fair amount of mest should be taken, but never in excess. The people of England are accustomed to est far too much beef and mutton without warnation, which only stimulates the skin to gross and unhealthy action and appearance. Servants, where so much mest is consumed in well-to-do families, make good patients to the doctors. All rich and heating foods taken in excess, such as reast pork, salt beef veal, jugged hare. excess, such as most pork, salt beef veal, jugged hara, many soups, badly cooked pastry, shell-fish, new there, raw vegetables, dried fruits, sweetmeats, should be studiously avoided by those who have any tendency

he studiously avoided by those who have any tendency to eruptions; but even in health the skin often becomes red and irritable after such things.

**Yogetable Diet.** We should take a more mixed and vegetable diet; and let me tell you, ladies, that vegetarians, possess the finest complexions of any people in the world; not that I advocate vegetarian diet in itself alone. The tendency, as I saul belofe, is to take too much red meat, and too often. We should take nuch more vegetable diet than we do, and more to take foo much red meat, and too often. We should take much more vegetable diet than we do, and more fish—that essential nerve and brain-snéphying foet fowl, wholesome unadulterated bread, whole-meal bread and brown bread, once-cooked meat, potatoes well cooked, all sorts of green vegetables, narrows, celery, tomatoes, leeks, and others so little known, rice, farinaceous food, beans, peas, light puddings of rice, fari

All this has been most ably brought forward in the All this has been most ably brought forward in the lectures on cooking at the last most successful international Health Exhibition. No person can expect have a nice complexion who cats meat, beef, and mutton, day by day without variation.

Alcehol, Injurious. My attention has been lately much drawn to the fact that in my practice so many disfigurements of the skin are entirely due to

many disfigurements of the skin are entirely due to drinking intoxicating drinks to exress, and amongst the upper ranks of society too; and, further, it is a painful fact to relate that there are 50,000 prisoners in our jails. Sixty per cent. of the inmates of our lunatic asylums are victims to its direful influence; and there are 1,000,000 paupers in our workhouses and elsewhere, and

plenty ready to follow them, only through excess in druk. I find more than 60 per cent of the dreadful cases of eruption in my hopital are either brought about by its influence, or those eruptions that are either thinetted or acquired are materially influenced to

the bad by its abuse.

Spirits and Ale. Instead of the vile concoctions called spirits, and that wretched stuff which is sold as ale to our working classes scarcely ever unadulterated, if we could prevail upon them to take less intoxicating drinks, how much less we doctors should have to do. This advice applies to the upper as well as the lower ranks of society. A young American medical man, who had Just come from the inedical schools of Germany, rasting the practice of my hospital, told use that in the whole course of his three year's study and residence in Germany he never sawa drunken man or

woman in the streets, or a woman enter a public house. I am sorry to say we cannot say this. 5'r Andrew Clark says: "Is it possible that the teaching of science or the dignity of our profession, any more than the calls of patriothem, humanity, love to our neighbour morality, and religion, can prove that we are wrong when we advise those that come in contact with us, as patients or in other capacities, to abstain from the poisonous and pernicious use of alcoholic drinks?"

alcoholic drinks?"

The Joy of Health. I venture to say to you that there is a certain joy of existence—a sense in which one teels what a pleasure it is to look, for instance, upon green fields and happy birds, to hear pleasant sounds, to touch pleasant hands, to know that life is a sujisfaction. This is a state which, in my opinion, is always injuried in tome way or other by excess in alcoholic drinking. This is a state in which, shoner or later, the musir goes out of time, as regards, its influence upon the health of our skin Peuffectly good health will, in my opinion, always be injured by alcohol—injured in the sense of its perfection and loveliness. The complexion soon loses is bloom and the counternance its cheerfulness.

Complexion and Gosmetics. A healthy and

Complexion and Gosmotics. A healthy and clear skin is the first aim and object of every man and wom in, and a point in connection with its care demands remark. It is the employment of cosmetics or wom in, and a point in connection with its care dis-mands remark. It is the employment of cosmetics or pewders for the complexion; are they harmful or not. This, in my opinion, depends entrely upon the nature of the applications employed. Many of the longer and drings used and advertised. For the skin contain harmful and positively injurious substances, and have seen numbers of instances where acue and other have seen numbers of instances where acue and other

nave seen numbers of instances where actic and other diseases have been caused by them.

Cosmetics may be defined as substances which are intended for application to the skin with a view to improving its appearance. However they may be prepared, whether as washes, powders, or pastes, they carry out their objects in some of the following ways By concealing an offending eruption or pimple or some cutaneous affection, or hiding a coarse skin or some local injury or scar; and frequently they are used, not with the object of hiding any blemish at all, but merely to add an artificial colour to the complexion

or a whiteness to the neck, arms, or hands.

The best cosmetic is an absolutely pure toilet soap

The best cosmetic is an absolutely pure trillet song like Pears, winch induces the natural conditions necessary to a healthy, refined complexion.

Blooms. The Romans and Greeks appear to have been accredited with the power to enhance their personal charms with many and various "blooms" and cosmetics, and many years ago a list was published of the various perfumes that they used on such occasions: mint for the arms, palm-oil for the cheeks and breast, marjoram for the eyebrows and hair, and ground ivy for the neck. History relates that the French then became the most renowned perfumers in the world, inasmuch as it is related that Diana of Poletiers preserved her complexion to a good old age; any Anne inasmuch as it is related that Diana or roteriers pre-served her complexion to a good old age; any Anne of Austria, too, introduced a wonderful weam, which was used to whiten the hands and shoulders. In England we are mainly indobted to the patronage of Queen Elizabeth for the introduction of cosmetics. Powdars. There are some skins which are tender and fine, and which may be prevented from becoming rough and broken by the occasional dusting on of some

simple powder, such anstarch powder, French chalk or tale, with the addition of a little calamine powder of boracic acid. But I should emphasically condemn all boracic acid. But I should emphatically condewn all pouders which contains preparations of mercury, arsenic or lead, so often used by tashionable ladies of the present day. And such powders, as used to impart a bloom to the face (on which much galety, hot rooms, lace hours, ices, stimulants, or sedatives show their mark), are undoubtedly injurious.

The skin is a beautiful but delicate membrane.

The skin is a beautiful but delicate membrane. It is easily injured by many causes, acting from within and without, and requires to be carefully guarded against many injurious influences. With a tittle knowledge and a little trouble the existing beauty of the skin may be made more enduring, and Be natural defects so far subfused and ameliorated that practically they cease to exist.

Black Spots. Perhaps some of the commonest of the m.nor disfigurements of the skin are the small black spots which appear on the surface. These are accompanied with redness and flushings. They are exacted below the scart-skin, and in the surface of the true skin, and are due to congestion of the sebaceous follicles. The palled or allow complexion, so often seen, it similarly caused by a weak and mustificient action of the small vessels of the pores. All who take on the first state of the small vessels of the pores. All who take consider that its health and brauty mainly depend upon the cleanliness and free action of the sken strans. consider that its health and to airly mainly depends upon the cleanliness and free action of these transpiratory pores. If these become choked up, and charged with foreign liatter, it is obvious that the regular functions of the skin cannot be fulfilled, and the result must, sooner or later, show itself in an accumulation of black specks or deposits in the results of the cleans.

accumulation to back specks of teposits in the mouths of the glands. It is important, therefore in all derangements of the sknt, to love no time on the application of suitable remedial treatment, as certain morbid conditions thus produced soon lead to the formation of congresses; and wrinkles, and when once produced are difficult

Wrinkles. Wrinkles, of all the enemies of a good appearance, are viewed with the greatest apprehension, and they are caused by a dinnium on of the fatty particles of winch the skin is partly composed, especially under the goes and at the corners of size modific. pecially under the yes and at the corners of the mobili, When this subcutaneous fat duminishes, the skin begins to tail into lines, and loses its smooth and even surface. No time should be lost in counteracting this alarming tendency, by the application of certain astringent preparations, or by massage or rubbing the wrinkled and the adjoining skill. This should be practised daily for a short time, and after a while nuch may be dishe to restore the smooth surface of the skin and a more youthful appearance.

Frenckles. Freckles, though not so important to the appearance of the complexion as wrinkles, are very destructive of a good appearance. They are, as we mostly know, caused by c-posure to the sun and wind, and are not constitutional or permanent when carefully treated.

We then have the pate, clanuny, and greasy skin. We then have the pass, clammy, and greasy sum. This is surery unpleasant and monnement defect. It is due to an amormal distension of the schaceous and sudoriferous glunds of the skin. This disfigurement may also be relieved by suitable treatment. Free Transpiration. All clothing should be such as shall permit free transpiration from the skin,

such as shall permit free transpiration from the skin, and, moreover, convey the transpired fluids from the surface; otherwise cold, irritation of the skin, and other had consequences follow. And everyone is practically aware that a loose dress is much warmers than one which fits tightly. The explanation is obvious; the loose dress encloses a thin stratum of air, which the sidely dress is becaused as or dispired. The which he tight dress is incapable or doing. The maxim, therefore, is that no should induced with the maxim, therefore, is that no should induced with any and present fashion do so; but they will find when the really cold weather comes. They I say true when the really cold weather comes. They not only face themselves in too nightly, but wear too tight and too pointed-tood hoots and shoes. If they only knew how serious a matter it is—destroying their lives and displacing all their internal organs, causing pale, sallow complexions, and the pointed-tood shoe

utterly destroying the shape of the foot in a few years. Esuppose women, when they like got a husband, do not misd this, but the husbands do.

Woollens. Those whose skins are able to bear it find wool, or fiannel, is the best material to wear next the skin (never red fiannel, and I will tell you why presently), by reason of its absorbing and heat-retaining propengies: to those who cannot, then fine linen is best, For the outer clothing woollen stuffs are by far the best, preserving the heat longer than other materials. There is scarcely any organ of the body that may not be affected by undue or irregular action excited in some portion of the surface circulation of the skin; how necessary, therefore, it is for our health's sale, as well as our skin, thay we slould be most careful what, we put on. I notice also that vale are far to much worn by women of the present day. They

caretiu what, we put on. I notice airs that veits are lar too much worn by women of the present day. They often conceal but do not preserve a good complexion.

Baths and Bathling. If there is one thing we English pride ourselves upon more than another, it is upon the fact that we do more bathing than any other nation in the wide world. Judge for yourselves, those of you who travel. The innited quart of water is often a cause of no mild complaint.

But to the casual eye the subject is a pardonable tone, that of looking at the fact with pride, but if we examine the position more carefully, we shall find our self-satisfaction is a little premature.

In these days, when the arts and sciences in their

ultiply the comforts and resources aid in truth be a cause of wonder if daily adv. so essential a means of prolonging and manutaining the vigour of life should have been neglected as as presented by efficient public bathing establishments, where the fairgued workmen (for we dre all workmen, or should fee, to keep well) may gratuitously, or for a small sum, relieve himself of the vidences of his labour. At the present time more attention, I am glad to say, is being paid to the subject in London and several large towns; but there is much room for improvement.

Public Baths. Phillic baths are being slowly established here and there; and it may fairly be calculated, that these baths so built will end in restoring those sources of healthy enjoyment so well rancestors, for it may be

rectoring those sources of healthy enjoyment so well rancestors, for it may be observed that the origin and use of liaths and bathing may be traced to the most remote antiquity, and were probably suggested to the ancient inhabitants of the world by the various inneral and thermal springs which are found in most countries. Thus we are told by Borcel who worte on the subject 300 years ago, that every ancient sation of whom we have records, employed baths as one of the most powerful agents in the preservation of health and the removal of disease, and judged with reason, for extiperation has failed to and indeed with reason, for experience has failed to

the preservation of health and the removal of disease, and indeed with reason, for experience has failed to supply a remedy of greater efficacy on the human economy than a pudicious administration of heat and cold.

Baths of the Ancients. If we look back to the days of sible and allegory, we find it affirmed that the first baths were consocrated to Hercules, and that Minerva prepared a vapour bath to refresh this hero after his extraordinary labars. Homer sung the praises of the bath in his Odyssey, as is tegified by Pope. Hippocrates, the father of medicine, has also not failed to add admiration to establishments that were then becoming more common and useful. Plutarch and Josephus have left descriptions of the baths which adorned the towns in which they dwelt. From the testimony of Pluny we learn that the first public baths of the Romans were constructed in the year 444 by Appius Claudius. These baths have preserved a character of simplicity and solidity in perfect larmony with the manners of the day. The histonan Justim mentions the fact of the importation or thus, into Germany, Gaul, and Britain, and wer'ges of the destablishments in the vicinity of Roman remains exaltered over this country vouch for the accuracy of his statement, whilst, spectre-like, they furnish slient reproof of the modern neglect of a sanutary practice to which our ancestors attached so much importance.

The Augustan Baths. The Romans in the time of the Emporor Augustus according to the remorts of Vitruvius and Preroundis, attached cym-

The Augustan Baths. The Romans in the time of the Emperor Augustus according to the reports of Vitruvius and Mercuralis, attached gymnasia, or places appropriated to public games, to their

baths, and later the Emperors Nero, Vespasian, and baths, and later the Emperors Nero, Vespassin, and Titus gave these editices so much magnificance that it was observed they were more calculated to convey the glory of their founders to posterity than to prove of public utility. Indeed, to so great an extent had uxury and licentiousness usurped the natural and salutary purposes of public baths in the Roman Empire, particularly in Rome itself, that the early Fathers of the Church anathematised their use in the strongrest terms, both in their discourses and in the Council of Landices, wet without subsering their shuese which terms, both in their discourses and in the Council of Laodicea, yet without subvering their abuses, which perhaps contributed in no small degree to the overtnew of that queen among nations, by the luxury, licentiousness, and effeminacy which they engendered. Roman Baths. It is sincerely to be hoped that such a state of things may never again disgrace insteads tons so preservative in health and curative in disease

as those we advocate; but it must be recollected that bathers at the same time, each bath being separate from the other, and that it was the practice of all ranks to bathe daily. Thus the baths of Dioclesius in Rome are said to have accommodated three thousand bathers, with a degree of luxury which to modern ideas would

with a degree of luxury which to modern ideas would appear gorgeous in the extreme. After the dismemberment of the Roman Empire baths were again introduced into Europe from the fast, where they held, and still hold, a rail second only in importance to the mosques. Public Inditarenae. Is it that the beneficial expenence of ages in so many on all clin ates is not regarded? Or have the speculations and genius of our learned men and medical authorities been directed more abstruse and therefore inportant objects of our learned men and medical authorises been directed to more abstrues and therefore important objects of practical knowledge? The answer, it E feared, will be found in the indifference, nay, often absolute opposition, with which the British public too commonly meets individual efforts for its benefit. So accustomed are we to regard every new measure as a mere existe for to regard every new measure as a mere evente for personal aggrands wment, that we commonly de-nounce the author and reputate his recommendation. The Press nowadays holds in its funds the great power of making or breaking anything. But I will say it is now more disposed to favour any good cause than it used to be, and is more independent in its writings.

used to be, and as more independent in its writings. In no single instance has this statement been more conclusively verified than in London, so little attention being paid to appeals for means for the purpose made by and who are end-avouring to put before the judicities great atvantages, because they are as small body an support special institutions.

A Great Bafeguard. We are living in a time when the race for life is sharp, and setlentary occupations or over-includgence in artificial habits of light pydisjones us for active physical exertion. It may, herefore, be taken for granted that appropriate bathing is one of the grottest safegrards against disease, especially of a zymotic character. The question suggests, itself, cannot we re-acquire the immunity we are told the ancients enjoyed in this respect? We certainly have better houses; more attention is being paid to told the ancients enjoyed in this respect; we certainly have better houses; more attention is being paid to ventilation, drainage, and other sanitary improvements; according to the life statistics of the present eax, actually four years is added to adult life, due, it is actually porr years is added to adult hip, due, it is considered, entirely to our improved annitary knowledge; and there can be no doubt that one great factor in personal health is "the frequent and thorough cleansing of the whole surface of our bodies," using plenty of water and a sufficient application of a fine emollient coap, like Peirs', which soothes and softens 'the skin, besides being thoroughly cleansing.

I have endeavoured to show you that the principle of thermal and medicingly baths was fully understood by all the great nations of the world, and to these they were no doubt indebted largely for the excellence of their public health, which ceased as soon as bathing, through various causes, fell into disuse. These are obvious historical facts, which all who have any ideas of self-oreservation, and have at heart their own and the

self-preservation, and have at heart their own and the public health, will do well to bear in mind. The microscopical and pathological science of the present day has taught us much about disease that was hidden

from our forefathers.

The Romans, who were renowned for their luxurious and beautiful baths, prided themselves greatly on their

skins, especially the women. Why should not we does it

Satistics and the Skin. Bathsact on and through the skin, and I will briefly touch upon the action of the bath upon the skin generally before I thow you the special value of the various kinds of bath. The structure and functions of the skin have now been minutely and accurately explained to us by means of the microscope and scientific men, and from them we learn that the skin is composed of several parts: the outer or scarf-skin, which is being constantly cast off from our bodies in minute scales; but these, instead of falling away from our bodies, are retained on the surface by the clothing and become mingled with the perspiration, which unites together, forming a thui surface by the clothing and become mingled with the perspiration, which unites together, forming a thui graph attracting all sorts of particles of dust and foreign matter from the air, so that she whole body in the course of the day is covered with these particles in the consequence of which is, the pores of the skint become blocked up and its respiratory action prevented. In the second place, the skin mast become irritated and damp and cold from the attraction of saline particles, at if if any poisonous gases or infectious vapours find their way into the skin, they will find a suitable medium for fransimescon. suitable medium for transmission

suitable medium for transmission.

If, therefore, the pores be choked up, the elements of the transfused fluids will be thrown upon the system, and consequently removed by other organs than the skin, r.e., by the lungs, kidneys, and liver. Thus it must be obvious to us all that habits of uncleanliness become the cause of consumption and other serious disorders of vital parts, and cutaneous eruptions and diseases of all kinds may be contracted. With such grave considerations as these before us, bathing and washing become a necessity, and need no

bathing and washing become a necessity, and need no

further argument.

further argument.

Soap and Water. With regard to the water we hathe in, it necessarily should be pure, and is spoken of as hard and soft. The softest water is distilled water, then river water, and lastly spring water. Hard water may be known by its property of circling soap but it may be rendered soft by adding to it a little pitash or bicarbonate of softs. The softer like water, the better it is for the skins. Water has a natural repulsion for the oily matters given off by the skin. Soan, therefore, is necessary for their removal, and Soap, therefore, is necessary for their removal, and Sodp, therefore, is necessary for their removal, and renders them easily soluble in water, hence it is an invaluable agent for purifying the skin. It is indigenerable indeed, for no other substance is so electual. The purest and best only are safegual the soap already mentioned—that of Pears—is indisputably of flawless purity, as I have had occasion to professionally certify.

Soap and the Face. There is no reason why a little soap should not be applied to the face, although there is a very common inpression among the pro-

intle scap should not be applied to the face, although there is a very common impression among the profession as well as the laity that it should not be used there—that is, while soap is acknowledged to be useful and necessary to the skin of every other part of the body, on that of the face alone, which resembles the rest of the surface in construction, the popular belief is that it should never be allowed. This is probably due to the possible amoyance caused by the soap getting into the eyes unless care be used. In direct opposition to this idea may be placed the fact that, in the treatment advised by most demiatologists where the sebaceous glands are disordered, as in

that, in the treatment advised by most derinatologists where the schaccous glands are disordered, as in seborrhoat and acue, great relance is placed upon solutions of what is known as sapo viridis, a potasis of soap imported from Germany, whence this treatment originated, or even in the rubbing in of this soap itself.

**Diffarences in Seaps.** There are very great differences in soaps, and in their effects upon the skin, and as fainthar extremes may be mentioned, on the one hand, the common yellow, bar, or washing soap, and coarse soft soap, which are stimulating and very irritating to many skins, and, on the other, some of the best class of toilet soaps have little, if any, effect on the healthy skin except that of cleansing.

**Requisities of a Good Soap.** The requisites of good soaps are: Firstly, that they shall not contain too much alkali, nor too little, just enough to saponify the fat, nether more nor less; secondly, that the fat from which they are made shall be good, pure, and sweet.

For in the refuse sometimes employed for soap making

we may find decomposed matter; and cases are on record where pus globules were actually found in a soaps which had caused and kept up a skin disease, and in another instance minute spicula of bone were found microscopically in soap which had produced an eruption on the face each time it was used for shaving. Thirdly, good soap must be perfectly mixed or, by preferences boiled, in order to produce the chemical process called saponification. The latter may be produced, to a certain degree, by cold mixture addéd by pressure, but to make the best soap long-continued boiling is necessary. Fourthly, a good soap should be free from extraneous substances as largely as possible. Many of the cheaper soaps have clays and earth mixed with them to increase the bulk; and squee the cost; many are co-dured, green, blue, red, etc., often with materials of very questionable value, and are scented with some of the strong perfumes, and of stritating character.

retaining character.

For all these reasons a good soap cannot be cheap, and great caution should be used to avoid those which are thrust upon the market, either as being very cheap or which are wrapped up showily, as these are pretty certain disguises for poor naterial. But a good soap, though it may cost more than common isoaps, is the

most economical.

"Medicated Soaps." A word may be added in reference to the so-called "medicated soaps," whose number and variety are legion, each claiming virtues far excelling all others previously produced. The re-counting of the varieties and vaunted virtues of these counting of the varieties and vainited virtues of these soaps would soon tire Now all or most of this attempt to "medicate" soap is a perfect farre, a delusion, and a snare to entrag the inwary and inside and a snare to entrag the inwary and inside attempts. The healthy Rim cannot be improved beyond health, and the diseased skin cannot be restored to health by any possible combination used in the form of soap that is employed by the latty.

"Boothing" Soaps. Another class of soaps, largely advertised and freely used, is what might be styled "the soothing soaps." As examples of these fancy soaps we have obvecume huner. Insider

styled "the soothing soaps." As examples of these fancy soaps we have glycerine, honey, mallow, oatmeal, lettuce, and almond soaps, together with a host of others. Now these again are hable to adulteration, being too often made by unknown and irresponsible parties. At their best they can sonly becalled harmless (but indeed they often are not that), and are in yo way superior to a perfectly pure, carefully prepared soap without these supposed healing additions. In other words, soap is not and cannot be made healing, and where a healing application is required, it certainly should not and cannot be in the way of soap.

in the way of soap.

The Safest Soaps. The safest soaps to use are of course those that are the purest, the more expensive of course those that are the purest, the more expensive scaps of our best known manufacturers may generally be relied upon. There is, however, the I have said, one soap which stands quite above question. This scap is Pears, which has met with such warm commendation from writers that it should be mentioned here, as I can endorge all that has been written and said of it by the later-Mr. Startin, Sir Ensmus Wilson, and Dr. Tilbury Fox. It was through their instrumentality that, on account of its purity, Pears soap was introduced into hospitals. It has obtained a world-wide rejuutation, and deservedly so.

In regard to the actual use of soap to the healthy skin, not a doubt can exist as to its value, for the

In regard to the actual use of soap to the healthyskin, not a doubt can exist as to its value, for the
greasy secretion and epidermal dibras of the skin can
only be removed by this means, together with good
friction. But, on the other hand, too frequent use of
suap can, and frequently does, together with the
water employed, cause actual disease of the skin.
As an example of this we have what is known as the
"washerwoman's litch," a distressing form of eczema
of the hands, which is well-nigh incurable as long a
the washing is persisted in.

As to the use of soap on the diseased skin, there is As to the use of soap on the diseased skin, there is in genebil far more chaince of doing pann with it than there is of doing good; for, while ciganiliness is valuable or essential for health, too much washing can do much harm to many, if not most, skin diseases.

Bozema. The most common example of error in this regard is in the eozema of children—milk-crust or

sooth-rash, as it is sometimes called—where the mother will wash and wash the eruption in vain, using this sod that soap in the hope of healing that which cannot heal, while a denuded and raw surface is continually deprived of the covering which is formed for the protection of the soft tissues beneath. is constantly done with certain ulcerating affections, as varicose ulcers, where clearisation is impossible if the newly-growing, delicate, epidermal formations at the edges are removed by soap and water. These are but instances which might be multiplied, so that it may safely be said that the introduction of so many soaps has produced infinitely more harm than good.

more harm than good.

Frequency of Abbution. In eczema of the scalp, both of relults and infants. I have seen the disease prolonged and spread, time and time again, by the unwise cagerness to wash. In these I allow the parts to be wastied only by rule, that is, each time by special direction: perhaps in some cases it may not be permitted more than once a week, and then the part is to be rapidly dried, and the olutions or other dressing to be instantly applied. This is to torn an artificial protection before the surface has had time to make its own protection in the way of an exudation from the surface. In this, as in most other rules of health, extremes should be avoided. As regards the frequency of ablution, the face and neck, from their necessary exposure to the atmosphere and the imparities which the latter contains, cannot escape with less than two watchings in twenty-four hours; the feet, from the confined nature of the coverings, coquire at least one; the arm-pits, from their peculiar

require at least one; the arm-pits, from their peculiar formation and secretions, me; the hands and arms as many as refined taste may dictate.

How to Wash the Face. Now let me advise you how to wash the face—few do it properly. Fill sie basin two-thirds full of fresh water; the hie face pass them with gentle friction over the whole face, for there is no washing glove list the hands; and pass them with gentle friction over the whole face, for there is no washing glove list the hands; and the face a second time, and thoroughly rine it. A little lemon-luice adds very greatly to the effect of this washing upon the skin of the face when added to the rigiding water.

Dryling the Face. To dry the face a moderately yout tweel sould be used; a very rough towel is not desirable, nor a very thin one. A coasse towel will often produce excontain on a lender skin Such, then, is washing as intended for the purpose of cleanliness, but nothing is more refreshing than a thorough ablution, for as Thurson, in his poem on the "Seasons," has it—

has it -

" Even from the body's purity the mind

"Even from the body's purity the mind Receives a secret sympathetic aid."

The Wested Sponge. The wetted sponge is one of the samplest and best methods of applying water to the samplest and best methods of applying water to the shit of the weakly and delicate, and one by which the smallest extent of surface is exposed. The whole body may us this way be quickly subjected to the influence of water, and to the useful process of consequent friction. A person of weakly constitution should commence a system of daily abluting in spring or summer, and by the winter he will be able to endure cold water without inconvenience, but this caves that the cold water without inconvenience; but this even should never be done without the doctor's sanction.

The Sponge Bath. The second form of ablusion

is by means of the sponge bath; the same precautions should be taken with this bath as the preceding as to should be taken with this bath as the preceding as to the temperature and the constitution of the patient. Those who wish to pass the short time of his in good health ought often to use cold bathing. I can scarcely explain to you how much benefit may be had by taking cold baths with care. For they who use then (agh hough perhaps growing old) have a stro. I pulse Add a light complexion, are active and strong, their appetite and digestion are good, and all their natural actions are well performed. As Sir John Foyger says, "They reach the very soul of the animal, rendering it more brick and lively in all its operations."

The Shower Hath. Of the shower bath I shall not say much; it is only suitable for very vigorous constitutions, and should be advised by medical men with the greatest care.

with the greatest care.

Swimming Bath. The swimming bath, both in salt and fresh water, taken at suitable times of the year, is one of the most healthy and invigorating of all kinds of bathing, especially to the young. Let me activity you, Yathers and mothers, have all your children, girls as well as boys, taught to swim. There is one popular error about swimming in salt or fresh water, the source are ast to say in the mater to

fresh water—the young are apt to stay in the water too long. I have seen serious results occur from this o The Warm Bath. When the cold bath is dis-agreeable to the sensations of the skin of the bather, it

may be raised in temperature to taste, viz., to 75 or 85 degrees, to suit his feelings. It then alters its character—to the temperate, 75 to 85 degrees; tepid, from 85 to grees; warm, 95 to 96 degrees; not, 98 to not degrees. To those who have passed the middle pA-go of life, have dry skins, and begin to emaciate, says obarwin. "The warm bath, for half-an-hour, twice week, I believe to be eminently serviceable in retarding

Neek, I believe to be commonly service the advances of age."

The Tarkish Bath. The vasour bath, or Turkish bath, so valuable in many disorders of the skin, is next in order of precedence. The bather seats himself in a charle, or sits in a hot room, and the vapour readually from 50 to 110 degrees. The is turned on gradually from 90 to 110 degrees. The vapour is breathed, and is thus brought in contact with vapour is breathed, and is thus brought in Contact with every part of the lungs. The first sensation is one of oppression, with some slight difficulty of breathing; but soon the perspiration bursts through the pores and liberonics agreeable; the perspiration rushes out on to the skin. From this the bather goes into a tepid bath, remaining their for ten minutes. He then quits the bath and dries hinself with warm towels. Sometimes cold effusion is added to this bif the advice of the medical attendant.

With reference to ead bathing \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 and \$1.5000 an

with reference to cold bathing, Sir George le Fevre makes the following judicious cuution: "Do not vosst until the body becomes cold before your planner unto the water. It is in this stage that there may be danger, for the external excitement has passed away, and the body cannot resist the depressing influence of cold."

Effects of Bathing. Now, with regard to the physiological effects of bathing. When the body is moissened with the sponge or wetted with cold water, the skin immediately shrinks and all its tissues contract; as a result of this contraction the blood is thrown back on the internal organs and nervous system, which are stimulated by this flow of blood, causing a more energetic action of the heart and the blood-vessels of

energetic action of the heart and the blood-vessels of the skin. This reaktion is the prime object of all forms of bathing, and upon it depends the healthy action of the skin. In order to increase this reaction various methods and manipulations are resorted to. Shampooing. The operation of shampooing is a good one; as in the Turkish bath, many an imaginary aliment and stiffness of body or linb, many an eruption of the skin is caused to vanish by this means, when auded by skilful treatment. Indeed, in my experience, many so-called increable eruptions will yield if treated rationally and carefully

many so-called incurable eruptions will yield it treated rationally and carefully. Baths, in the ordinary acceptation of the word, are the immersion of the body in a medium different from air, which medium is usually common water. Soap Substitutes. Bathing has served both for cleanliness and pleasure, and has been practised by almost every nation.

The richer Romans used every variety of oils and promades (succeptable) in those promades (succeptable).

pomades (smegmata); they scarcely had soap in those days. They used flowers of lentils, as used at the present time by Orientals. The most important intrument used was the astragalus, a curved instrument of inetal, and used as a scraper.

Action of Baths on the System. That is,

Action of Baths on the System. That is, the action of heat and cold on the cutaneous surfact through the medium of water.

It is generally supposed that water acts on the system by being absorbed by the skin. This question has been requently discussed, but the great majority of observers believe that under ordnary circumstances little or no water or medicinal substance is absorbed into the system—it is merely a stimulant action imparted to the skin.

The powerful influence of water on the capillaries of the skin, and the mode and extent of that operation, depend upon the temperature of the fluid in which it is

Baths have, therefore, to be considered according their temperature. The cutaneous striace bears to their gemperature. The cutaneous surface bears changes of temperature of air much better than changes changes of temperature of air much better than Changes of temperature of water. For instance, air at 75 degrees is perhaps too warm for the feeling of many, but a continued bath at that temperature is cold and depressing? In like manner, a bath of 8 to row degrees acts as a stimulant, as, being a good conductor of heat, it suffuses the perspiration. A temperature a few degrees below blood heat can be borne longest without any

below blook heat can be corne tongest without any disturbance to the system.

Cold Baths. Cold baths act by refrigeration, and their effects vary according to the degree of temperature.

The effects of a cold bath at about 50 degrees are diminution of the temperature of the skin and of the

subjacent tissues; the blood rises in temperature to bath has been taken.

At first the surface becomes pale, and its capillaries

contract. Then there takes places a reaction, bringing redness to the surface and increase of temperature

reaness to the surface and increase of temperature Very cold baths, i.e., below 50 degrees, cannot be borne long. We should not lower the temperature of the skin below 9 degrees, as a further reduction may prove

Effects of Hydropathy. The effects of hydropathy depend upon the power of abstracting heat from the body, and of stimulating it by the application of cold water. Under the process of hydropathy the system is subjected to periods of excitement and rest. That is, persistent lowering of the temperature of the body, with capillary contraction and aniema. This is necessible than usered of fewers or local buscassia. body, will capitally contraction and anomaia. Talls is succeeded by a period of reverse or local hyperamia, accompanied by excitement of the vascular and not wois systems, and the processes of absorption and excretion are stimulated, with increase of perspiration. We now consider the effect of warm bathing at

different temperatures.

Tepid Baths. Tepid, 85 to 95 degrees. The bath at this temperature is only confined to the surface, or the peripheral extremities of the nerves, and doe

or the peripheral extremities of the nerves, and does not extend to the central system, and consequently can be horse an indefinite time.

Warm Baths. Warm laths, from 95 to 100 degrees. In these the heat is prepagated from the surface to the central system, causing reaction and increased surface circulation, giving slight stimulus for the ronewal of tissue.

The Hot Bath. Hot bath, from 102 to 110 egges. Here the central circulation and nervous degrees. Here the central circulation and nervous system are more affected. The skin is congested, and the retained heat bursts out in perspiration.

very hot bath, about 110 to 119 degrees, almost scalding, cannot be borne many minutes, causing violent reflex reaction on the heart and circulatory

system.

Vayour baths produce profise perspiration and action, cleanising the skin. They do not act so rapidly on the skin as the warm bath, and consequently can be borne longer and hotter; but a higher heat

than use degrees cannot be borne confortably.

Hot all baths differ from a pour baths in not impeding
the perspiration, and these baths again induce more
perspiration than the vapour baths.

Yapour Baths. Vajour baths, hot alr, and many

hydropathic processes agree in producing violent perspiration. Of perspiration, it is sensible and insensible; three ounces may be considered to be perspiration.

insensible; three ouncer may be considered to be about the average thrown off in twenty-four hours, consisting chiefly of water; alout one-third consists of urea and other exercitory products.

In comparing the general effects of hot and cold bathing, it my be said, while the former-ends to check the perspiration the latter favours it. It is said when the property of the cold bath of the perspiration the latter favours it. that cold baths, by the reaction they promote, increase the action of the gastric and other fluids of the stomach and alimentary canal, and warm baths rather serve to retard it.

As regards the use of baths simply for the promotion of health, it follows from what I have said that warm

baths are best suited for the delicate, the very young, and the old, cold baths for the strong and roust, when the powers of reaction are unimpaired. Warm baths, according to their degree of heat, are useful in caiming the nervous system, in neuralgia, in theumatism, and gout.

Turkish baths are useful in the latter affection, and whenever it is destrable there should be more free, action of the skin.

Cold baths, aralp, are useful when the this and

Cold baths, again, are useful when the skin and system require tonics, and it can bear the shock of cold

Injudicious Bathing. Long-continued warm baths are soporific, and have often by this action

baths are soporifice, and fiave often by this action caused drowning.

The effects of too hot baths are swhming of the head, voniting, fainting, congestion of the brain, and apoplexy.

It is, therefore, very evident that much caution should be used by people of weak hearts in not taking their baths too hot. Fat men and those disposed to epilepsy should not take them too hot.

Bathing Risks. The risk in cold bathing is congestion of the internal organs, as often indicated by the lips and fingers turning blue; extremely cold baths should therefore be interdacted when there is a tendency to internal congestion, and they are always tendency to internal congestion, and they are always dangerous when the system is exhausted by fatigue.

The warm bath causes swelling and congestion of the capillaries of the surface in the first instance; when the stimulus is withfrawn the contraction takes place. A cold bath, again, first causes contraction of the capillaries of the surface, which is followed by their expansion when reaction sets in.

The reason why a matterels refreshed by a hot bath

The reason why a manufaces refreshed by a hot bath when exhausted, may be that the increased heat conveyed to limi by the warm bath helps the process of oxidation, and thus relieves the system.

Cold refreshes by exciting the functions, heat by onlysically releving their action. This general result of these comparisons would show that warm are a nuller remerly than cold baths, and are applicable often when the system does not possess power of reaction sufficient to make use of the latter expedient.

Now as to a few words of advice.

Time for Bathing. Whenever it is possible.

Now as to a lew words of advice.

Time for Bathing. Whenever it is possible bathing should be over before 1 o'clock p m., newer bathe when the stomach stoland muth food, or after much slimitants. The shorter the bath is, esqueially when cold and the bather cannot swim, the better—say five minutes. If he can swim, the fifteen ortwenty minutes is quite enough

Bathing should not be practised more than once a day; when the body is very hot, not exhausted, it is

day; when the body is very hot, not exhausted, it is advisable to bathe at once, not to cool. Care should be taken after vapour or hot air baths not on get cold.

Baths for Skin Eruptions. The baths we usually prescribe in certain cruptions of the skin are a the vapour and the simple medicated warm bath, which can be made to resemble in character most of the natural mineral waters. These baths admit not only of haying the temperature raised or depressed at pleasure, but can be medicated with various drings according to the value of the case are conduct to the uttern and requirements of the case. pleasure, but can be instanted and with various urings according to the instante and requirements of the case. They are used chiefly for the purpose of bringing about a healthy action of the skin, relieving irritable conditions, and allowing the more thorough application of

digons, and around drugs.

The simple vapour bath is a very valuable adjunctin many eruptions of the skin. The bather seats himself in a box (the cabinet Turkich bath) on a chair, or on a cane-bottomed chair surrounded by a blanket, with a spirit or gas condenser under the seat. The temperature can be raised or lowered at will from go to addresses.

degrees.

The Turkish bath is much the same in its process of action. The bather may remain in the bath twenty niluttes to half an-hour.

Take Care of Your Skins. Having now recounted to you all the various methods of diet, clething. and hathing, which I know to be the best to promote a good complexion, it is your day, I venture to say, to "take care of your skins as you value the treasure of good complexion and a kealthy skin."

## The Romance of the House of Pears

By CLEMENT K. SHORTER

(Reprinted with additions from THE SPHERE, by Special Permission of the Proprietors.)

The story of the Pears' busines goes back to the year 1789, when one Andrew Pears, the founder of the house, invented the soap which has long been of worldhouse, invented the soap which has long been of world-wide fame. He was the son of a farmer on the Lana-dron Farm, near Mevigissey in Cornwall, and coming up to London set up a small barber's shop in Gerrard Street, Solio, where the customary barber's pole midcated his profession. In addition to operating upon such customers as called upon lum, he used to thon such customers as cancer and such many ladies and gentlemen who wanted their wigs powdered or required other toilet attentions which came within his province.

He knew-no one better-how defective the toilet soaps of his day and generation were, and it was to soaps of his day and generation were, and it was to remedy this defect that he bent his abilities to she producing of a soap that would enable him to perform his duties.

of Pears. would enable him to perform his duties and more credit and convenience to himself. This was the raison dire of Pears Soap. And presently he discovered that he had 'abuiled better than he knew." The soap which served his own needs so well was capable of munistering with equal efficiency to the needs of wlomsoever could be got to buy it.

But good old Andrew Pears, clever inventor as he and proficient as he was in his calling, did not understand much about the science. The Science of selling, indeed, the art of creating of Selling. Indeed, the art of creating did not understand much about the science of selling. Indeed, the art of creating did not understand in the science of selling. Indeed, the art of creating did not understand in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the selling in the

ledged this and commended the article; but this was hardly sufficient for the building up of a great prosperity. Andrew Pears was shrewd, however, in his old-ashioned way, and watchild of his interests, and when he found that unscrupulous dealers that was beyond them—but the vrappings, colour, and method of presentment, he though he would upset their knavish tricks" by simply signing each package with his own bignature, actually written by himself with his own bignature, actually written by himself with his own business quilt. To instate that would have been forgery, for which there was remedy enough, although there might be no redress in those days for the other offence. And so matters went on placidly and evenly, without the Thames or any other stream being set on fire by any Pears' pronouncement of awakening importance.

stream being set on fire by any Fears pronouncements of awakening importance.

In 1835, Audrew Pears, who then for some years had been established in a shop, now pulled down, at 55, Wells St., Oxford St., and by this time was getting into years, decided upon taking his gra-dson, Mr. Francis Pears, into the business.

Mr. Francis Pears, into the business Transitions. and from that tune onward the style of the firm has been "A. & F. Pears."

Andrew and Francis Pears continued together until

1838; then for several years more Francis Pears carried on the enterprise alone, keeping the business alive in a small way with an expenditure of some 58 per annum, until at last it had either to be brought into line with altered business conditions or drop out

of the running. The soap was there still, as good and as worthy of public patronage as ever, but that was nearly all that could be said about it. It had yielded a modes, but in 10 sense large income to its prostion to the prostion to the said about it. It had yielded a modes, but in 10 sense large income to its prostion to the force a large meanifested little displendid it of the said and the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the said that the sai

the milittol Francis Pears from the tusiness methods under which he had been brought up, and he often looked with distrust, and sometimes with dismay, upon the progressing and aggressic ideas with which hir. Barratt sought to win wider popularity for the good old soap. New suggestions were from time to time acted upon, sometimes they were not, Mr. Pears' frankly confussing his mability to follow them, and not daring too much for fear that he should lose all. New where we talked was extracted. entailed new expenses, and although Mr. titless entailed new expenses, and atthough Mr. Birratt never took up with a project in which he had not confidence, he was often unable to inspire the same confidence in the respected senior partner. As matter of fact, times of financial stress occasionally ensued, but Mr. Barratt was no less successful in coping with difficulties of this nature than with the promulgation and putting into question of the new advertising features with which he meant to conquer the markets of the world for Parcel Son.

promultation and putting into queration of the new advertising features with which he meant to conquer the markets of the world for Pears' Soap.
"You may be right, but I have my fears," Mr. Pears used to say, so, in the end, with the object of making sure of something for himself for his Retirement of old age, while yet there was any returned in 1875, leaving £4,000 of his own capital behind him in the business as a loan, to be discharged by Mr. Andrew Pears and Mr. Barratt equally. This was not a too promising start, it must be admitted. A quite small capital and a loan of £4,000, upon which interest had to be paid, did not leave much margin for expansive operations. But Mr. Bargatt helieved in the soap, and in his own capacity to sell it, and never allowed himself to lose heat; so by careful financing and the exercise of much energy and thought, the business was gradually put on it's feet, and Francis Pears' loan was repaid. It was in those years of struggle that Mr. Barratt, was able to show that he possessed the true business in 166

stincts which not only enables a man to achieve success, but also inspires confidence in others. Often it was thus confidence that others had in him that was the means of siding the firm over a difficult fundicial period, means or gaing the hrm over a diment manked protect when the prospect and promise lay in the future; but Mr. Barratt was always able to show a clear outlook devoid of complications. He saw what the business was capable of under his "irrection, and inspired others also to a great extent, which fact bridged over many a financial crisis, and in time the enterprise became successful, and thenceforward its history was one of rapid Expansion.

one of rapid Expansion.

It was the advertising question which had puzzled Francis Pears. Its cost seemed a thing beyond recouping. He did not think of it as "bread cast upon the waters," but as to a large extent, money thrown away. It was really a matter that was out of the range of his timking. In economies pertaining to panagement and organisation, Mr. Barratt was at one with him; but when it came to spending money on a well-thought-out system of advertising, Mr. Pears could not see eye to eye with his young partner. The latter, however, had studied the advertising field with great care, and, making his own calculadrawing his own conclusions, devising his actions, and throwing his whole entryces mot of the one great truit that he had convinced hunself upon at the outset, viz., that had convinced hunself upon at the outset, viz., that has there was no better soap

at the outset, via., that as there was no better soap made or makeable than that of Pears, it was a worthy and an honourable work to devote hunself to making that truth known to the world; not omitting from the purview, of course, the prospect of at the same time, and as a natural result, building up a great business for the House of Pears. It was a small business indeed Barratt first came into it. The Great Runsell Street place and then the works at 1 bleworth

only worked one pan titlen time works at faleworth only worked one pan tiree times a wock, and very few hands were necessary to the working. Mr Pears resided in the house adjobing, which he called "Lauddon," after the Comish farm on which the first Andrew Pears had lived, and in this printive first Andrew Pears had lived, and in this printive fashion the manufacture of Pears' Soap was carried

on in the early days of the partnership.

The only office of Messrs. A. & P. Pears, when Mr.
Barratt joined, was a little room behind the shop

at 91, Great Russell Street, Small Economies. Bloomsbury, not far from the British Museum, and the staff

was a getal shopwoman. Mr. Barratt not only kept the books but did the travelling. The first cash book used by what may be called the new firm is still along the ancient treasures of the house. The entries are all in Mr. Barratt's own landwriting. He kept it or years. In its pages may be noted such items as "Expenses to Hastungs, leasthourne and Tunioringe Wells, Et. is 2d." for a journey to three towns in search of orders. Economy and Pears. Soap were even they ideas of unitnate association. Meanwhile, the world at Isleworth, where the soap was made, were hours creately be required to the boy. If Audrew hours creately be required to the boy. If Audrew hours creately be required to the boy. If Audrew was a getail shopwomen Mr. Barratt not only kept the books but did the travelling. The first cash book the works at Isleworth, where the soap was made, were being gradually brought into line by Mr. Andrew Pears, with progressive methods of production, and nighting was waiting but an increased demand to win a assured success. Mr. Barratt decided that the key to the world's markets was advertising, and he resolved has would give a new polish and a new power to that key.

Everybody in these days is so familiar with large scale advertising that it is difficult to comprehend how scale advertising that it is difficult to comprehend how the publishty problem stood.

Large Expenses, when Mr. Barratt first took it will be up. There were no large advertisers, in the present-day sense, at that time. The newspapers carried only a very small number of advertisements, and few of any size. The leading business houses rather "looked down" on addectisers and advertising and the nature throughout the sense. business houses rather "looked down" on adertisers and advertising, and the papers themselves did little to encourage extension of business in this direction, while poster advertising was insignificant in quantity and poor in quality, indeed, the caution "Bill Stickers will be Prosecuted," was one of the most greatment. In Mr. Barratt's view, it was just as legitimate and honest and proper to appeal to the public by the medium of a well-worded advertisement as it was to send travellers out to seek orders. Both methods were on the same level. Wherever the field was promising, Mr. Barratt had the courage to venture, but it was no haphazard, blindfold leaping in the dark withhim. He studied the advertising outlook with a serrousness and a pertinactly that yielded much knowledge, some of it not a little strange and a promise of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the servic

much knowledge, someon it not a utile strange and peculiar, and bringing him many currous experiences. Advertising, however, was a rather expensive affair even forty-five years ago, and well-established as the Pears little enterprise therewas

Btrong Contrasts, in its old-fashoned-gay, the calmit of lavish expenditure—least of all any rash experiments—on publicity. Still, by dint of much thinking and some ingenuity, and backed by a strong determination, Pears' Soap managed to get into the full advertising "swm" What this meant cannot be better summarised than by this one simple statement: when Mr. Barratt jouned the Pears' business it was quite a retail one on which perhaps in the eighty years or so of its existence not more than £500 all told had been spent in advertising; while not so very many years later, when the new advertising ideas were in full swing, Mr. Barratt spent as much as £126,000 in a single year on advertising in its various forms—each season bringing forth a bountiful crop of new Bears' season bringing forth a bountful crop of new Bears' railway advertisements, new Bears' posters, new Pears' route of the old business, in alert and progressive hands, prospered; and in due time the modest building in Great Russell Street had to be "retired" or "superanmated"—for it is still sentimentally retained as part of the Pears' enterprise—and the marble place and art gallery now forming the Pears' headquarters, in New Oxford Street came to be established, prior to which, however, it had been at 38, Great Russell Street, opposite the old shop there, whilst acres of factory buildings had been erected at Isleworth.

It was not until Mr. Barratt took the matter up and made his investigations that the true importance of

made his investigations that the true importance of The Newer Cult to the public. When he told the story of its inventory and

other evidence what were the great qualities of the sorp, people who had never heard of it before were induced to buy and use it, and once used its worth was made sufficiently manifest, Mr. Barrat proved to the world that after the introduction of Years' Soap, the cult of beauty entered upon a new phase. Up to thatcult of beauty entered upon a new phase. Up to that-ome, he clearly showed, totele toaps had been of such inferior quality, and made of such crude materials, it was not to be wondered at perhapit that women should have resorted to challatans, who professed to be able to make them beautiful with pastes, potions, washes, elaxirs, cosmetics, and whit not Nature had been wornly misundenstood. Pears' Soap helped to restore Nature to her rightful place in the hygienie of the slin. Every component of Pears' was absolutely pure, while in its combination it repre-sented once he accurate halance and hermone of was mosourery pure, while in its combination it represented such au exquisite balance and harmony of saponaceous ingredients as had never before been realiged. The skin responded to its every touch. It brought to bear a new emollient influence that worked for beauty all the time, and set up a natural action that ignificed and preserved natural beauty of complexion—the natural pink and white of perfect loveliness.

Then with the dawn of what may be called the en-

Then with the dawn or what may be caused the era of natural beauty, an improved comprehension of the true conditions of beauty ensued. At first the movement was confined to a few ladies of the Court and Society, but when it became matter of common know-ledge that good looks could be better preserved by Pears' than by cosmetics and other artificial prepararears than by connected and other artifactar prepara-tions, the example was widely followed. Pears' thus became distinctly associated with the cult of beauty, and the most celebrated beauties of six generations have borne enthusiastic testimony to the fact that Pears' has been of unsurpassable service to them in the improving and maintaining of their perfect complexions.

Pears' Soap has held the leading position among Grelifichiagen, R.I., Gordon Browne, R.I., R. Caton Wood rille, and numer just others. This production has won its way into popularity precisely in the same manawer as Pears' Soup has done, by sheer force of meets. Some so tons of paper is consumed in a single isske of the Annual, and 150 pair-horse wans are required to deliver b. Another side of Pears' Interaction production as represented by Pears' Cyclopedia, of which this volume is a copy of the latest edition, which this rotal issue up to 1,200,000 copies. It consists of 1,070 pages and twenty separate sections, and is universally pronounced to be the most remarkable shillingsworth of useful literature ever produced. It is a work which is serviceable to all classes of the combunity—a book of daily utility for the home or the office—and a great storehouse of practical knowledge. Two or the editions are issued every year, each one being brought up to the tune of publishing m every section.

brought up to the time of personned.

All along Mr. Barratt held to one or two cardinal principles of advertising faith—first, not to claim impossible qualities for the article advertised, but to claim all that can rightly be claimed and to that extent to insist and insist and insist by the strongest forms of publicity that can be devised. One of the forms that he always favoured was the artistic form that was arready helpined by certain artistic instincts and forms of publicity that can be devised. One of the forms that he always favoured was the artistic form. He was greatly helped by certain artistic instincts and tastes, which not only prescribed something of an artistic standard for his advertising appeals, but mariably impelled hum along more or less artistic lines. Lord Northchiffe in a public speech once paid Mr. therattat the compliment of styling him "The Father of Modern Advertising from whom I have learned so much." Pears' Soap is brought by the public at immensely lower prices now that nearly £3,000,000 has been spent on advertising than when less than £500 was spent in olden days.

In Mr. Barratt's early advertising days, art had hardly been thought of in connection with publicity. The pictorial youter of true artistic effect, and the illustrated advertisement which was to be drawn and produced by the best artistic talent, had not arrived.

It is now the dominant note in the best advertising. "I have heard it urged," said Mr. Barratt, one day to a Doby Mall interviewer "that an article that is largely advertised miss to Good advertising the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the

about it, and certainly cannot have given the subject any serious/shought, for the reverse is entirely the case. Their argument could only hold good if advertising produced no extra dominal for an advertised article; and who would also the serious and the serious factor of all—in the economics of advertising, and successful advertising means such an increase of sale as not only enables the quality to be improved, where improvement is possible. This is greatly to the advertise; and its advertising and its advantage to the consumer, and its advantage to the advertiser is that although the profit on each single article taken by Isali may be diminished, in the aggregation of things and considered by the bulk, there is still an adequate profile after advertising and all other exponses have been satisfied. The balance is on the right side both with producer and consumer, and at the same time, by the satisfied. The balance is on the right side both with producer and consumer, and at the same time, by the money which has been put into circulation through the Press and other channels, many industries have been benefited, and the sources of employment hat a been multiplied and augmented."

oets and parliaments have from time to time sought

mispiration at the fount of Pears' Soap. Sir Theodore Martin, in his old Bon

Gaultier Ballad days, described how Paris Poets and Parliaments.

discovered the secret of Helen's beauty in a golden casket; how he

"Eagerly the lid uncloses, Sees within it, laid aslope, Sees within it, laid aslope,
wiragrant of the sweetest roses,
Cak.s of Pears' Transparent Soan,
Among the parliamentary references to Pears' was
Mr. Gladstone's metaphorical allusing on a certai,
occasion when he wished to convey the impression of
vast numbers. "They are as numerous," he said, 'gas,
the advertsements of Pears' Soap, or as antumn leaves
in Vallombrosa." This, by the way, was the first debate
in which Mr. Lloud George took part.

in Valionbrosa. This, by the way, was the first debate in which Mr. Lloyd George took part.

A Pears' advertising idea once led to the passing of an Act of Parliament. In the early eighties French ten-centime pieces were in considerable dragatation in this country and were accepted as the equivalent of English perpiles. Mr. Barratt saw an advertising opportunity in this, and imported 250,000 of the colus, had them all stamped with the word "Pears," and put them into circulation by the aid of commissionalres. It ways splendid run that was obtain—"for the money—while it lasted—but the Pears' pennies became so persistently numerous that at last a special Act of Parliament was passed making French coin illegal after a certain date. The Government bought up fill the Pears' pennies and melted them down. Meanwhile Messrs, Pears had had they advertisement.

Pears' pennies and melted them down. Meanwhile Messrs. Pears had had their advertisement.

No wonder that with this brilliant and persister advertising, the demand for Pears' Soap should have increased at such an amazing rate as to make it necessary greatly to enlarge the Isleworth factories, where Mr. Andrew Pears, always loyal to Mr. Barratt's forward policy, continued to direct affairs, and when Mr. Andrew Pears did in 1909, it was a satisfaction to know that there had never been a word of misunderstanding of any kind between the two.

Mr. Andrew Years unear a year and the know that there had never been a word of misunderstanding of any kind between the two,
Mr. Baratt was a firm believer in to-day, but a still firmer believer in to-morrow. The Years' policy is always a forward policy. In advertising—that is, successful advertising—one's business w with the future. Tastes change lashions change, and the advertier has to change with them. An idea that was effective a generation ago would fall dat if presented to the public to-day. Not that the idea of to-day is always better than the older idea, but it is different—it hits the present taste. M. srs. Pears the called extre. to-day is alway's better than the older idea, but it is different—it hits the present taste. M. 18. Pearshave had many what may be called extre.
—especially in pictorial and art advertising, energiby—they have been so good as to seem almost of perennal attractiveness. Se John Milans's Bubble; painting, for instance, for which £1,200 was pind, and certain other works, not unknown to fague and the may in the street, by Stary Marks, Pfill May an lothers—all these things were of special mark an! of lasting unfuence. But when they are repeath: it is in some new form. At one time they are justing them way through the Press, at another time? ourributing to the attractions of the National Gallery, the Street Hoordings, and at another flooding the may army and to the attractions of the National Gallery, the Street Hoardings, and at another flooding the ing-azines and periodicals in uset form. But in Street words it is "to-norrow, and to-morrow" that Pears have to be continually. Aftering for in advertising, and so it will be, it may be upposed "to the last syllable of recorded time." And the good, honest soap that Andrew Pears invented in 1789 is now this have been multiplied a limitary-long and only it has a flarket value of over a fillion quid fifty thousand pounds. Mr. Barratt brought the name of Pears out of obscurity, planted it in full view of the universe, and practically made it spell soap.

